

# VHEGEN: A vibronic Hamiltonian expansion generator for trigonal and tetragonal polyatomic systems

James Brown      Robert A. Lang      Riley J. Hickman      Tao Zeng

Thank you for using **VHEGEN**, the **V**-ibronic **H**-amiltonian **E**-xpansion **GEN**-erator for trigonal and tetragonal polyatomic systems. This is a **VHEGEN** output file compiled by **pdflatex**. If the **VHEGEN** package was used in research resulting in a publication, please reference the article in *Computer Physics Communications* which describes the program ([doi here]). Additional information regarding the matrix element expansion process, including the independent matrix element eigenvalues, their root formulas and constraints, and their transformation to the real basis (if applicable), can be found in the **log** output file. For questions, bugs, or comments, please contact [jbrown88@yorku.ca](mailto:jbrown88@yorku.ca).

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# 1 Vibronic interaction

$E_{1g} \otimes (e_{2g} + e_{2g} + e_{1u} + e_{1g} + e_{2u})$  in  $D_{6h}$

$$\rho_1, \phi_1, x_1, y_1 \rightarrow e_{2g}$$

$$\rho_2, \phi_2, x_2, y_2 \rightarrow e_{2g}$$

$$\rho_3, \phi_3, x_3, y_3 \rightarrow e_{1u}$$

$$\rho_4, \phi_4, x_4, y_4 \rightarrow e_{1g}$$

$$\rho_5, \phi_5, x_5, y_5 \rightarrow e_{2u}$$

# 2 Vibronic Hamiltonian operator in the complex $E$ basis

$$\hat{H} = \begin{pmatrix} |+\rangle & |-\rangle \end{pmatrix} \begin{pmatrix} H_{++} & H_{+-} \\ H_{-+} & H_{--} \end{pmatrix} \begin{pmatrix} \langle +| \\ \langle -| \end{pmatrix}$$

# 3 Matrix element expansions in the complex $E$ basis

## 3.1 Order: 0

Number of fitting parameters:  $H_{++}$ : 1,  $H_{+-}$ : 0.

**Polar e-coordinates:**

$$H_{++}^{(0)} = a_{0,0,0,0,0,0,0,0,0,0}^r$$

$$H_{--}^{(0)} = a_{0,0,0,0,0,0,0,0,0,0}^r$$

$$H_{+-}^{(0)} = 0$$

$$H_{-+}^{(0)} = 0$$

**Cartesian e-coordinates:**

$$H_{++}^{(0)} = a_{0,0,0,0,0,0,0,0,0,0}^r$$

$$H_{--}^{(0)} = a_{0,0,0,0,0,0,0,0,0,0}^r$$

$$H_{+-}^{(0)} = 0$$

$$H_{-+}^{(0)} = 0$$

## 3.2 Order: 1

Number of fitting parameters:  $H_{++}$ : 0,  $H_{+-}$ : 2.

**Polar e-coordinates:**

$$H_{++}^{(1)} = 0$$

$$H_{--}^{(1)} = 0$$

$$H_{+-}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r \rho_1 \exp(-i\phi_1) + b_{0,0,-1,0,0,0,0,0,0}^r \rho_2 \exp(-i\phi_2)$$

$$H_{-+}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r \rho_1 \exp(i\phi_1) + b_{0,0,-1,0,0,0,0,0,0}^r \rho_2 \exp(i\phi_2)$$

**Cartesian e-coordinates:**

$$H_{++}^{(1)} = 0$$

$$H_{--}^{(1)} = 0$$

$$H_{+-}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r x_1 - ib_{-1,0,0,0,0,0,0,0,0}^r y_1 + b_{0,0,-1,0,0,0,0,0,0}^r x_2 - ib_{0,0,-1,0,0,0,0,0,0}^r y_2$$

$$H_{-+}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r x_1 + ib_{-1,0,0,0,0,0,0,0,0}^r y_1 + b_{0,0,-1,0,0,0,0,0,0}^r x_2 + ib_{0,0,-1,0,0,0,0,0,0}^r y_2$$

### 3.3 Order: 2

Number of fitting parameters:  $H_{++}$ : 6,  $H_{+-}$ : 6.

**Polar e-coordinates:**

$$H_{++}^{(2)} = a_{0,0,0,0,0,0,0,0,1}^r \rho_5^2 + a_{0,0,0,0,0,0,0,1,0}^r \rho_4^2 + a_{0,0,0,0,0,1,0,0,0}^r \rho_3^2 + a_{0,0,0,1,0,0,0,0,0}^r \rho_2^2 + a_{0,1,0,0,0,0,0,0,0}^r \rho_1^2 + a_{1,0,-1,0,0,0,0,0,0}^r \rho_1 \rho_2 \cos(\phi_1 - \phi_2)$$

$$H_{--}^{(2)} = a_{0,0,0,0,0,0,0,0,1}^r \rho_5^2 + a_{0,0,0,0,0,0,0,1,0}^r \rho_4^2 + a_{0,0,0,0,0,1,0,0,0}^r \rho_3^2 + a_{0,0,0,1,0,0,0,0,0}^r \rho_2^2 + a_{0,1,0,0,0,0,0,0,0}^r \rho_1^2 + a_{1,0,-1,0,0,0,0,0,0}^r \rho_1 \rho_2 \cos(\phi_1 - \phi_2)$$

$$H_{+-}^{(2)} = b_{0,0,0,0,-2,0,0,0,0}^r \rho_3^2 \exp(-2i\phi_3) + b_{0,0,0,0,0,-2,0,0,0}^r \rho_4^2 \exp(-2i\phi_4) + b_{0,0,0,0,0,0,0,2,0}^r \rho_5^2 \exp(2i\phi_5) + b_{0,0,2,0,0,0,0,0,0}^r \rho_2^2 \exp(2i\phi_2) + b_{1,0,1,0,0,0,0,0,0}^r \rho_1 \rho_2 \exp(i(\phi_1 + \phi_2)) + b_{2,0,0,0,0,0,0,0,0}^r \rho_1^2 \exp(2i\phi_1)$$

$$H_{-+}^{(2)} = b_{0,0,0,0,-2,0,0,0,0}^r \rho_3^2 \exp(2i\phi_3) + b_{0,0,0,0,0,-2,0,0,0}^r \rho_4^2 \exp(2i\phi_4) + b_{0,0,0,0,0,0,0,2,0}^r \rho_5^2 \exp(-2i\phi_5) + b_{0,0,2,0,0,0,0,0,0}^r \rho_2^2 \exp(-2i\phi_2) + b_{1,0,1,0,0,0,0,0,0}^r \rho_1 \rho_2 \exp(-i(\phi_1 + \phi_2)) + b_{2,0,0,0,0,0,0,0,0}^r \rho_1^2 \exp(-2i\phi_1)$$

### Cartesian e-coordinates:

$$H_{++}^{(2)} = a_{0,0,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2) + a_{0,0,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2) + a_{0,0,0,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2) + \\ a_{0,0,0,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2) + a_{0,1,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2) + a_{1,0,-1,0,0,0,0,0,0,0}^r(x_1x_2 + y_1y_2)$$

$$H_{--}^{(2)} = a_{0,0,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2) + a_{0,0,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2) + a_{0,0,0,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2) + \\ a_{0,0,0,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2) + a_{0,1,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2) + a_{1,0,-1,0,0,0,0,0,0,0}^r(x_1x_2 + y_1y_2)$$

$$H_{+-}^{(2)} = -2ib_{0,0,0,0,-2,0,0,0,0,0}^r x_3y_3 + b_{0,0,0,0,-2,0,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3) - 2ib_{0,0,0,0,0,-2,0,0,0}^r x_4y_4 + b_{0,0,0,0,0,-2,0,0,0}^r(x_4 - \\ y_4)(x_4 + y_4) + 2ib_{0,0,0,0,0,0,0,2,0}^r x_5y_5 + b_{0,0,0,0,0,0,0,2,0}^r(x_5 - y_5)(x_5 + y_5) + 2ib_{0,0,2,0,0,0,0,0,0}^r x_2y_2 + \\ b_{0,0,2,0,0,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2) + b_{1,0,1,0,0,0,0,0,0}^r(x_1x_2 - y_1y_2) + ib_{1,0,1,0,0,0,0,0,0}^r(x_1y_2 + x_2y_1) + \\ 2ib_{2,0,0,0,0,0,0,0,0}^r x_1y_1 + b_{2,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)$$

$$H_{-+}^{(2)} = 2ib_{0,0,0,0,-2,0,0,0,0,0}^r x_3y_3 + b_{0,0,0,0,-2,0,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3) + 2ib_{0,0,0,0,0,-2,0,0,0}^r x_4y_4 + b_{0,0,0,0,0,-2,0,0,0}^r(x_4 - \\ y_4)(x_4 + y_4) - 2ib_{0,0,0,0,0,0,0,2,0}^r x_5y_5 + b_{0,0,0,0,0,0,0,2,0}^r(x_5 - y_5)(x_5 + y_5) - 2ib_{0,0,2,0,0,0,0,0,0}^r x_2y_2 + \\ b_{0,0,2,0,0,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2) + b_{1,0,1,0,0,0,0,0,0}^r(x_1x_2 - y_1y_2) - ib_{1,0,1,0,0,0,0,0,0}^r(x_1y_2 + x_2y_1) - \\ 2ib_{2,0,0,0,0,0,0,0,0}^r x_1y_1 + b_{2,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)$$

### 3.4 Order: 3

Number of fitting parameters:  $H_{++}$ : 11,  $H_{+-}$ : 21.

### Polar e-coordinates:

$$H_{++}^{(3)} = a_{0,0,0,0,1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,1,0,-2,0,0,0,0,0}^r \rho_2 \rho_3^2 \cos(\phi_2 - 2\phi_3) + \\ a_{0,0,1,0,0,0,-2,0,0,0}^r \rho_2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,0,0,0,0,2,0}^r \rho_2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + \\ a_{0,0,3,0,0,0,0,0,0}^r \rho_2^3 \cos(3\phi_2) + a_{1,0,0,0,-2,0,0,0,0,0}^r \rho_1 \rho_3^2 \cos(\phi_1 - 2\phi_3) + \\ a_{1,0,0,0,0,0,-2,0,0,0}^r \rho_1 \rho_4^2 \cos(\phi_1 - 2\phi_4) + a_{1,0,0,0,0,0,0,2,0}^r \rho_1 \rho_5^2 \cos(\phi_1 + 2\phi_5) + \\ a_{1,0,2,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \cos(\phi_1 + 2\phi_2) + a_{2,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \cos(2\phi_1 + \phi_2) + \\ a_{3,0,0,0,0,0,0,0,0}^r \rho_1^3 \cos(3\phi_1)$$

$$H_{--}^{(3)} = a_{0,0,0,0,1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,1,0,-2,0,0,0,0,0}^r \rho_2 \rho_3^2 \cos(\phi_2 - 2\phi_3) + \\ a_{0,0,1,0,0,0,-2,0,0,0}^r \rho_2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,0,0,0,0,2,0}^r \rho_2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + \\ a_{0,0,3,0,0,0,0,0,0}^r \rho_2^3 \cos(3\phi_2) + a_{1,0,0,0,-2,0,0,0,0,0}^r \rho_1 \rho_3^2 \cos(\phi_1 - 2\phi_3) + \\ a_{1,0,0,0,0,0,-2,0,0,0}^r \rho_1 \rho_4^2 \cos(\phi_1 - 2\phi_4) + a_{1,0,0,0,0,0,0,2,0}^r \rho_1 \rho_5^2 \cos(\phi_1 + 2\phi_5) + \\ a_{1,0,2,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \cos(\phi_1 + 2\phi_2) + a_{2,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \cos(2\phi_1 + \phi_2) + \\ a_{3,0,0,0,0,0,0,0,0}^r \rho_1^3 \cos(3\phi_1)$$

$$H_{+-}^{(3)} = b_{-1,0,0,0,0,0,0,0,1}^r \rho_1 \rho_5^2 \exp(-i\phi_1) + b_{-1,0,0,0,0,0,0,1,0,0}^r \rho_1 \rho_4^2 \exp(-i\phi_1) + \\ b_{-1,0,0,0,0,1,0,0,0,0}^r \rho_1 \rho_3^2 \exp(-i\phi_1) + b_{-1,0,0,1,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \exp(-i\phi_1) + b_{-1,1,0,0,0,0,0,0,0,0}^r \rho_1^3 \exp(- \\ i\phi_1) + b_{-2,0,1,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \exp(i(-2\phi_1 + \phi_2)) + b_{0,0,-1,0,0,0,0,0,1}^r \rho_2 \rho_5^2 \exp(-i\phi_2) + \\ b_{0,0,-1,0,0,0,0,1,0,0}^r \rho_2 \rho_4^2 \exp(-i\phi_2) + b_{0,0,-1,0,0,1,0,0,0,0}^r \rho_2 \rho_3^2 \exp(-i\phi_2) + b_{0,0,-1,1,0,0,0,0,0,0}^r \rho_2^3 \exp(-$$

$$\begin{aligned}
& i\phi_2) + b_{0,0,0,0,-1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \exp(i(-\phi_3 + \phi_4 - \phi_5)) + b_{0,0,0,0,1,0,-1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \exp(i(\phi_3 - \\
& \phi_4 - \phi_5)) + b_{0,0,0,0,1,0,1,0,1,0}^r \rho_3 \rho_4 \rho_5 \exp(i(\phi_3 + \phi_4 + \phi_5)) + b_{0,0,1,0,0,0,0,0,-2,0}^r \rho_2 \rho_5^2 \exp(i(\phi_2 - \\
& 2\phi_5)) + b_{0,0,1,0,0,0,2,0,0,0}^r \rho_2 \rho_4^2 \exp(i(\phi_2 + 2\phi_4)) + b_{0,0,1,0,2,0,0,0,0,0}^r \rho_2 \rho_3^2 \exp(i(\phi_2 + 2\phi_3)) + \\
& b_{0,1,-1,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \exp(-i\phi_2) + b_{1,0,-2,0,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \exp(i(\phi_1 - 2\phi_2)) + \\
& b_{1,0,0,0,0,0,0,0,-2,0}^r \rho_1 \rho_5^2 \exp(i(\phi_1 - 2\phi_5)) + b_{1,0,0,0,0,0,2,0,0,0}^r \rho_1 \rho_4^2 \exp(i(\phi_1 + 2\phi_4)) + \\
& b_{1,0,0,0,2,0,0,0,0,0}^r \rho_1 \rho_3^2 \exp(i(\phi_1 + 2\phi_3))
\end{aligned}$$

$$\begin{aligned}
H_{-+}^{(3)} = & b_{-1,0,0,0,0,0,0,0,0,1}^r \rho_1 \rho_5^2 \exp(i\phi_1) + b_{-1,0,0,0,0,0,0,1,0,0}^r \rho_1 \rho_4^2 \exp(i\phi_1) + \\
& b_{-1,0,0,0,0,1,0,0,0,0}^r \rho_1 \rho_3^2 \exp(i\phi_1) + b_{-1,0,0,1,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \exp(i\phi_1) + \\
& b_{-1,1,0,0,0,0,0,0,0,0}^r \rho_1^3 \exp(i\phi_1) + b_{-2,0,1,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \exp(-i(-2\phi_1 + \phi_2)) + \\
& b_{0,0,-1,0,0,0,0,0,0,1}^r \rho_2 \rho_5^2 \exp(i\phi_2) + b_{0,0,-1,0,0,0,0,1,0,0}^r \rho_2 \rho_4^2 \exp(i\phi_2) + \\
& b_{0,0,-1,0,0,1,0,0,0,0}^r \rho_2 \rho_3^2 \exp(i\phi_2) + b_{0,0,-1,1,0,0,0,0,0,0}^r \rho_2^3 \exp(i\phi_2) + b_{0,0,0,0,-1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \exp(- \\
& i(-\phi_3 + \phi_4 - \phi_5)) + b_{0,0,0,0,1,0,-1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \exp(-i(\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,0,0,1,0,1,0,1,0}^r \rho_3 \rho_4 \rho_5 \exp(-i(\phi_3 + \phi_4 + \phi_5)) + b_{0,0,1,0,0,0,0,0,-2,0}^r \rho_2 \rho_5^2 \exp(-i(\phi_2 - 2\phi_5)) + \\
& b_{0,0,1,0,0,0,2,0,0,0}^r \rho_2 \rho_4^2 \exp(-i(\phi_2 + 2\phi_4)) + b_{0,0,1,0,2,0,0,0,0,0}^r \rho_2 \rho_3^2 \exp(-i(\phi_2 + 2\phi_3)) + \\
& b_{0,1,-1,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \exp(i\phi_2) + b_{1,0,-2,0,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \exp(-i(\phi_1 - 2\phi_2)) + \\
& b_{1,0,0,0,0,0,0,0,-2,0}^r \rho_1 \rho_5^2 \exp(-i(\phi_1 - 2\phi_5)) + b_{1,0,0,0,0,0,2,0,0,0}^r \rho_1 \rho_4^2 \exp(-i(\phi_1 + 2\phi_4)) + \\
& b_{1,0,0,0,2,0,0,0,0,0}^r \rho_1 \rho_3^2 \exp(-i(\phi_1 + 2\phi_3))
\end{aligned}$$

**Cartesian e-coordinates:**

$$\begin{aligned}
H_{++}^{(3)} = & a_{0,0,0,0,1,0,1,0,-1,0}^r (x_3(x_4x_5 + y_4y_5) + y_3(x_4y_5 - x_5y_4)) + a_{0,0,1,0,-2,0,0,0,0,0}^r (x_2(x_3^2 - y_3^2) + 2x_3y_2y_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,0}^r (x_2(x_4^2 - y_4^2) + 2x_4y_2y_4) + a_{0,0,1,0,0,0,0,0,2,0}^r (x_2(x_5^2 - y_5^2) - 2x_5y_2y_5) + \\
& a_{0,0,3,0,0,0,0,0,0,0}^r x_2(x_2^2 - 3y_2^2) + a_{1,0,0,0,-2,0,0,0,0,0}^r (x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,0,0,0,-2,0,0,0}^r (x_1(x_4^2 - \\
& y_4^2) + 2x_4y_1y_4) + a_{1,0,0,0,0,0,0,0,2,0}^r (x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,2,0,0,0,0,0,0,0}^r (x_1(x_2^2 - y_2^2) - \\
& 2x_2y_1y_2) + a_{2,0,1,0,0,0,0,0,0,0}^r (-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{3,0,0,0,0,0,0,0,0,0}^r (x_1^2 - 3y_1^2)
\end{aligned}$$

$$\begin{aligned}
H_{--}^{(3)} = & a_{0,0,0,0,1,0,1,0,-1,0}^r (x_3(x_4x_5 + y_4y_5) + y_3(x_4y_5 - x_5y_4)) + a_{0,0,1,0,-2,0,0,0,0,0}^r (x_2(x_3^2 - y_3^2) + 2x_3y_2y_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,0}^r (x_2(x_4^2 - y_4^2) + 2x_4y_2y_4) + a_{0,0,1,0,0,0,0,0,2,0}^r (x_2(x_5^2 - y_5^2) - 2x_5y_2y_5) + \\
& a_{0,0,3,0,0,0,0,0,0,0}^r x_2(x_2^2 - 3y_2^2) + a_{1,0,0,0,-2,0,0,0,0,0}^r (x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,0,0,0,-2,0,0,0}^r (x_1(x_4^2 - \\
& y_4^2) + 2x_4y_1y_4) + a_{1,0,0,0,0,0,0,0,2,0}^r (x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,2,0,0,0,0,0,0,0}^r (x_1(x_2^2 - y_2^2) - \\
& 2x_2y_1y_2) + a_{2,0,1,0,0,0,0,0,0,0}^r (-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{3,0,0,0,0,0,0,0,0,0}^r (x_1^2 - 3y_1^2)
\end{aligned}$$

$$\begin{aligned}
H_{+-}^{(3)} = & b_{-1,0,0,0,0,0,0,0,0,1}^r x_1(x_5^2 + y_5^2) - ib_{-1,0,0,0,0,0,0,0,0,1}^r y_1(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,0,1,0,0}^r x_1(x_4^2 + y_4^2) - \\
& ib_{-1,0,0,0,0,0,0,1,0,0}^r y_1(x_4^2 + y_4^2) + b_{-1,0,0,0,0,1,0,0,0,0}^r x_1(x_3^2 + y_3^2) - ib_{-1,0,0,0,0,1,0,0,0,0}^r y_1(x_3^2 + y_3^2) + \\
& b_{-1,0,0,1,0,0,0,0,0,0}^r x_1(x_2^2 + y_2^2) - ib_{-1,0,0,1,0,0,0,0,0,0}^r y_1(x_2^2 + y_2^2) + b_{-1,1,0,0,0,0,0,0,0,0}^r x_1(x_1^2 + y_1^2) - \\
& ib_{-1,1,0,0,0,0,0,0,0,0}^r y_1(x_1^2 + y_1^2) + ib_{-2,0,1,0,0,0,0,0,0,0}^r (-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + \\
& b_{-2,0,1,0,0,0,0,0,0,0}^r (2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + b_{0,0,-1,0,0,0,0,0,0,1}^r x_2(x_5^2 + y_5^2) - ib_{0,0,-1,0,0,0,0,0,0,1}^r y_2(x_5^2 + \\
& y_5^2) + b_{0,0,-1,0,0,0,0,1,0,0}^r x_2(x_4^2 + y_4^2) - ib_{0,0,-1,0,0,0,0,1,0,0}^r y_2(x_4^2 + y_4^2) + b_{0,0,-1,0,0,1,0,0,0,0}^r x_2(x_3^2 + y_3^2) - \\
& ib_{0,0,-1,0,0,1,0,0,0,0}^r y_2(x_3^2 + y_3^2) + b_{0,0,-1,1,0,0,0,0,0,0}^r x_2(x_2^2 + y_2^2) - ib_{0,0,-1,1,0,0,0,0,0,0}^r y_2(x_2^2 + y_2^2) + \\
& b_{0,0,0,0,-1,0,1,0,-1,0}^r (x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) - ib_{0,0,0,0,-1,0,1,0,-1,0}^r (x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 +
\end{aligned}$$

$$\begin{aligned}
& y_4 y_5)) + b_{0,0,0,0,1,0,-1,0,-1,0}^r(x_3(x_4 x_5 - y_4 y_5) + y_3(x_4 y_5 + x_5 y_4)) - ib_{0,0,0,0,1,0,-1,0,-1,0}^r(x_3(x_4 y_5 + x_5 y_4) + y_3(- \\
& x_4 x_5 + y_4 y_5)) + b_{0,0,0,0,1,0,1,0,1,0}^r(x_3(x_4 x_5 - y_4 y_5) + y_3(-x_4 y_5 - x_5 y_4)) + ib_{0,0,0,0,1,0,1,0,1,0}^r(x_3(x_4 y_5 + \\
& x_5 y_4) + y_3(x_4 x_5 - y_4 y_5)) + b_{0,0,1,0,0,0,0,0,-2,0}^r(x_2(x_5^2 - y_5^2) + 2x_5 y_2 y_5) - ib_{0,0,1,0,0,0,0,0,-2,0}^r(2x_2 x_5 y_5 + \\
& y_2(-x_5^2 + y_5^2)) + b_{0,0,1,0,0,0,2,0,0,0}^r(x_2(x_4^2 - y_4^2) - 2x_4 y_2 y_4) + ib_{0,0,1,0,0,0,2,0,0,0}^r(2x_2 x_4 y_4 + y_2(x_4^2 - \\
& y_4^2)) + b_{0,0,1,0,2,0,0,0,0,0}^r(x_2(x_3^2 - y_3^2) - 2x_3 y_2 y_3) + ib_{0,0,1,0,2,0,0,0,0,0}^r(2x_2 x_3 y_3 + y_2(x_3^2 - y_3^2)) + \\
& b_{0,1,-1,0,0,0,0,0,0,0}^r x_2(x_1^2 + y_1^2) - ib_{0,1,-1,0,0,0,0,0,0,0}^r y_2(x_1^2 + y_1^2) + b_{1,0,-2,0,0,0,0,0,0,0}^r(x_1(x_2^2 - y_2^2) + \\
& 2x_2 y_1 y_2) - ib_{1,0,-2,0,0,0,0,0,0,0}^r(2x_1 x_2 y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,0,0,0,0,0,0,-2,0}^r(x_1(x_5^2 - y_5^2) + 2x_5 y_1 y_5) - \\
& ib_{1,0,0,0,0,0,0,0,-2,0}^r(2x_1 x_5 y_5 + y_1(-x_5^2 + y_5^2)) + b_{1,0,0,0,0,0,2,0,0,0}^r(x_1(x_4^2 - y_4^2) - 2x_4 y_1 y_4) + \\
& ib_{1,0,0,0,0,0,2,0,0,0}^r(2x_1 x_4 y_4 + y_1(x_4^2 - y_4^2)) + b_{1,0,0,0,2,0,0,0,0,0}^r(x_1(x_3^2 - y_3^2) - 2x_3 y_1 y_3) + \\
& ib_{1,0,0,0,2,0,0,0,0,0}^r(2x_1 x_3 y_3 + y_1(x_3^2 - y_3^2))
\end{aligned}$$

$$\begin{aligned}
H_{-+}^{(3)} = & b_{-1,0,0,0,0,0,0,0,0,1}^r x_1(x_5^2 + y_5^2) + ib_{-1,0,0,0,0,0,0,0,0,1}^r y_1(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,0,1,0,0}^r x_1(x_4^2 + y_4^2) + \\
& ib_{-1,0,0,0,0,0,0,1,0,0}^r y_1(x_4^2 + y_4^2) + b_{-1,0,0,0,0,1,0,0,0,0}^r x_1(x_3^2 + y_3^2) + ib_{-1,0,0,0,0,1,0,0,0,0}^r y_1(x_3^2 + y_3^2) + \\
& b_{-1,0,0,1,0,0,0,0,0,0}^r x_1(x_2^2 + y_2^2) + ib_{-1,0,0,1,0,0,0,0,0,0}^r y_1(x_2^2 + y_2^2) + b_{-1,1,0,0,0,0,0,0,0,0}^r x_1(x_1^2 + y_1^2) + \\
& ib_{-1,1,0,0,0,0,0,0,0,0}^r y_1(x_1^2 + y_1^2) - ib_{-2,0,1,0,0,0,0,0,0,0}^r(-2x_1 x_2 y_1 + y_2(x_1^2 - y_1^2)) + \\
& b_{-2,0,1,0,0,0,0,0,0,0}^r(2x_1 y_1 y_2 + x_2(x_1^2 - y_1^2)) + b_{0,0,-1,0,0,0,0,0,0,1}^r x_2(x_5^2 + y_5^2) + ib_{0,0,-1,0,0,0,0,0,0,1}^r y_2(x_5^2 + \\
& y_5^2) + b_{0,0,-1,0,0,0,0,1,0,0}^r x_2(x_4^2 + y_4^2) + ib_{0,0,-1,0,0,0,0,1,0,0}^r y_2(x_4^2 + y_4^2) + b_{0,0,-1,0,0,1,0,0,0,0}^r x_2(x_3^2 + y_3^2) + \\
& ib_{0,0,-1,0,0,1,0,0,0,0}^r y_2(x_3^2 + y_3^2) + b_{0,0,-1,1,0,0,0,0,0,0}^r x_2(x_2^2 + y_2^2) + ib_{0,0,-1,1,0,0,0,0,0,0}^r y_2(x_2^2 + y_2^2) + \\
& b_{0,0,0,0,-1,0,1,0,-1,0}^r(x_3(x_4 x_5 + y_4 y_5) + y_3(-x_4 y_5 + x_5 y_4)) + ib_{0,0,0,0,-1,0,1,0,-1,0}^r(x_3(x_4 y_5 - x_5 y_4) + y_3(x_4 x_5 + \\
& y_4 y_5)) + b_{0,0,0,0,1,0,-1,0,-1,0}^r(x_3(x_4 x_5 - y_4 y_5) + y_3(x_4 y_5 + x_5 y_4)) + ib_{0,0,0,0,1,0,-1,0,-1,0}^r(x_3(x_4 y_5 + x_5 y_4) + y_3(- \\
& x_4 x_5 + y_4 y_5)) + b_{0,0,0,0,1,0,1,0,1,0}^r(x_3(x_4 x_5 - y_4 y_5) + y_3(-x_4 y_5 - x_5 y_4)) - ib_{0,0,0,0,1,0,1,0,1,0}^r(x_3(x_4 y_5 + \\
& x_5 y_4) + y_3(x_4 x_5 - y_4 y_5)) + b_{0,0,1,0,0,0,0,0,-2,0}^r(x_2(x_5^2 - y_5^2) + 2x_5 y_2 y_5) + ib_{0,0,1,0,0,0,0,0,-2,0}^r(2x_2 x_5 y_5 + \\
& y_2(-x_5^2 + y_5^2)) + b_{0,0,1,0,0,0,2,0,0,0}^r(x_2(x_4^2 - y_4^2) - 2x_4 y_2 y_4) - ib_{0,0,1,0,0,0,2,0,0,0}^r(2x_2 x_4 y_4 + y_2(x_4^2 - \\
& y_4^2)) + b_{0,0,1,0,2,0,0,0,0,0}^r(x_2(x_3^2 - y_3^2) - 2x_3 y_2 y_3) - ib_{0,0,1,0,2,0,0,0,0,0}^r(2x_2 x_3 y_3 + y_2(x_3^2 - y_3^2)) + \\
& b_{0,1,-1,0,0,0,0,0,0,0}^r x_2(x_1^2 + y_1^2) + ib_{0,1,-1,0,0,0,0,0,0,0}^r y_2(x_1^2 + y_1^2) + b_{1,0,-2,0,0,0,0,0,0,0}^r(x_1(x_2^2 - y_2^2) + \\
& 2x_2 y_1 y_2) + ib_{1,0,-2,0,0,0,0,0,0,0}^r(2x_1 x_2 y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,0,0,0,0,0,0,-2,0}^r(x_1(x_5^2 - y_5^2) + 2x_5 y_1 y_5) + \\
& ib_{1,0,0,0,0,0,0,0,-2,0}^r(2x_1 x_5 y_5 + y_1(-x_5^2 + y_5^2)) + b_{1,0,0,0,0,0,2,0,0,0}^r(x_1(x_4^2 - y_4^2) - 2x_4 y_1 y_4) - \\
& ib_{1,0,0,0,0,0,2,0,0,0}^r(2x_1 x_4 y_4 + y_1(x_4^2 - y_4^2)) + b_{1,0,0,0,2,0,0,0,0,0}^r(x_1(x_3^2 - y_3^2) - 2x_3 y_1 y_3) - \\
& ib_{1,0,0,0,2,0,0,0,0,0}^r(2x_1 x_3 y_3 + y_1(x_3^2 - y_3^2))
\end{aligned}$$

### 3.5 Order: 4

Number of fitting parameters:  $H_{++}$ : 39,  $H_{+-}$ : 68.

#### Polar e-coordinates:

$$\begin{aligned}
H_{++}^{(4)} = & a_{0,0,0,0,0,0,0,0,0,2}^r \rho_5^4 + a_{0,0,0,0,0,0,0,0,1,0}^r \rho_4^2 \rho_5^2 + a_{0,0,0,0,0,0,0,0,2,0,0}^r \rho_4^4 + \\
& a_{0,0,0,0,0,0,0,2,0,2,0}^r \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,0,1,0,0,0,1}^r \rho_3^2 \rho_5^2 + a_{0,0,0,0,0,0,1,0,1,0,0}^r \rho_3^2 \rho_4^2 + \\
& a_{0,0,0,0,0,0,2,0,0,0,0}^r \rho_3^4 + a_{0,0,0,0,0,2,0,-2,0,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + \\
& a_{0,0,0,0,0,2,0,0,0,2,0}^r \rho_3^2 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + a_{0,0,0,0,1,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 + a_{0,0,0,0,1,0,0,0,0,1,0}^r \rho_2^2 \rho_4^2 + \\
& a_{0,0,0,0,1,0,1,0,0,0,0}^r \rho_2^2 \rho_3^2 + a_{0,0,0,0,2,0,0,0,0,0,0}^r \rho_2^4 + a_{0,0,1,0,-1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \\
& \phi_4 - \phi_5) + a_{0,0,1,0,1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{0,0,2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_2 - \\
& 2\phi_5) + a_{0,0,2,0,0,0,2,0,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_2 + 2\phi_3) +
\end{aligned}$$

$$\begin{aligned}
& a_{0,1,0,0,0,0,0,0,1}^r \rho_5^2 \rho_2^2 + a_{0,1,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 + a_{0,1,0,0,0,1,0,0,0,0}^r \rho_1^2 \rho_3^2 + \\
& a_{0,1,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 + a_{0,2,0,0,0,0,0,0,0,0}^r \rho_1^4 + a_{1,0,-1,0,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,1,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 - \phi_2) + a_{1,0,0,0,-1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + a_{1,0,0,0,1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \\
& \phi_3 + \phi_4 + \phi_5) + a_{1,0,1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,0,2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_3) + a_{1,1,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(\phi_1 - \phi_2) + a_{2,0,-2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_1 - 2\phi_2) + \\
& a_{2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,0,0,0,2,0,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + \\
& a_{2,0,0,0,2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1 + 2\phi_3)
\end{aligned}$$

$$\begin{aligned}
H_{--}^{(4)} = & a_{0,0,0,0,0,0,0,0,2}^r \rho_5^4 + a_{0,0,0,0,0,0,0,1,0,1}^r \rho_4^2 \rho_5^2 + a_{0,0,0,0,0,0,0,2,0,0}^r \rho_4^4 + \\
& a_{0,0,0,0,0,0,2,0,2,0}^r \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,1,0,0,0,1}^r \rho_3^2 \rho_5^2 + a_{0,0,0,0,0,1,0,1,0,0}^r \rho_3^2 \rho_4^2 + \\
& a_{0,0,0,0,0,2,0,0,0,0}^r \rho_3^4 + a_{0,0,0,0,2,0,-2,0,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + \\
& a_{0,0,0,0,2,0,0,0,2,0}^r \rho_3^2 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + a_{0,0,0,1,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 + a_{0,0,0,1,0,0,0,1,0,0}^r \rho_2^2 \rho_4^2 + \\
& a_{0,0,0,1,0,1,0,0,0,0}^r \rho_2^2 \rho_3^2 + a_{0,0,0,2,0,0,0,0,0,0}^r \rho_2^4 + a_{0,0,1,0,-1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \\
& \phi_4 - \phi_5) + a_{0,0,1,0,1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{0,0,2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_2 - \\
& 2\phi_5) + a_{0,0,2,0,0,0,2,0,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,1,0,0,0,0,0,0,0,1}^r \rho_1^2 \rho_5^2 + a_{0,1,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 + a_{0,1,0,0,0,1,0,0,0,0}^r \rho_1^2 \rho_3^2 + \\
& a_{0,1,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 + a_{0,2,0,0,0,0,0,0,0,0}^r \rho_1^4 + a_{1,0,-1,0,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,1,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 - \phi_2) + a_{1,0,0,0,-1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + a_{1,0,0,0,1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \\
& \phi_3 + \phi_4 + \phi_5) + a_{1,0,1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,0,2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_3) + a_{1,1,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(\phi_1 - \phi_2) + a_{2,0,-2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_1 - 2\phi_2) + \\
& a_{2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,0,0,0,2,0,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + \\
& a_{2,0,0,0,2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1 + 2\phi_3)
\end{aligned}$$

$$\begin{aligned}
H_{+-}^{(4)} = & b_{-1,0,-1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \exp(i(-\phi_1 - \phi_2 - 2\phi_5)) + b_{-1,0,-1,0,0,0,2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \exp(i(-\phi_1 - \\
& \phi_2 + 2\phi_4)) + b_{-1,0,-1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \exp(i(-\phi_1 - \phi_2 + 2\phi_3)) + b_{-1,0,-3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \exp(i(- \\
& \phi_1 - 3\phi_2)) + b_{-1,0,0,0,-1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + b_{-1,0,1,0,-2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \exp(i(- \\
& \phi_1 + \phi_2 - 2\phi_3)) + b_{-1,0,1,0,0,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \exp(i(-\phi_1 + \phi_2 - 2\phi_4)) + \\
& b_{-1,0,1,0,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \exp(i(-\phi_1 + \phi_2 + 2\phi_5)) + b_{-1,0,3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \exp(i(-\phi_1 + 3\phi_2)) + \\
& b_{-2,0,-2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \exp(i(-2\phi_1 - 2\phi_2)) + b_{-2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \exp(i(-2\phi_1 - 2\phi_5)) + \\
& b_{-2,0,0,0,0,0,2,0,0,0}^r \rho_1^2 \rho_4^2 \exp(i(-2\phi_1 + 2\phi_4)) + b_{-2,0,0,0,2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \exp(i(-2\phi_1 + 2\phi_3)) + \\
& b_{-3,0,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \exp(i(-3\phi_1 - \phi_2)) + b_{-4,0,0,0,0,0,0,0,0,0}^r \rho_1^4 \exp(-4i\phi_1) + \\
& b_{0,0,-1,0,-1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + b_{0,0,-2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \exp(i(-
\end{aligned}$$

$$\begin{aligned}
& 2\phi_2 - 2\phi_5)) + b_{0,0,-2,0,0,0,2,0,0,0}^r \rho_2^2 \rho_4^2 \exp(i(-2\phi_2 + 2\phi_4)) + b_{0,0,-2,0,2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \exp(i(- \\
& 2\phi_2 + 2\phi_3)) + b_{0,0,-4,0,0,0,0,0,0,0}^r \rho_2^4 \exp(-4i\phi_2) + b_{0,0,0,0,-2,0,0,0,0,1}^r \rho_3^2 \rho_5^2 \exp(-2i\phi_3) + \\
& b_{0,0,0,0,-2,0,0,1,0,0}^r \rho_3^2 \rho_4^2 \exp(-2i\phi_3) + b_{0,0,0,0,-2,1,0,0,0,0}^r \rho_3^4 \exp(-2i\phi_3) + \\
& b_{0,0,0,0,0,0,-2,0,0,1}^r \rho_4^2 \rho_5^2 \exp(-2i\phi_4) + b_{0,0,0,0,0,0,-2,1,0,0}^r \rho_4^4 \exp(-2i\phi_4) + b_{0,0,0,0,0,0,0,-4,0}^r \rho_5^4 \exp(- \\
& 4i\phi_5) + b_{0,0,0,0,0,0,0,2,1}^r \rho_5^4 \exp(2i\phi_5) + b_{0,0,0,0,0,0,0,1,2,0}^r \rho_4^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,0,0,0,0,0,2,0,-2,0}^r \rho_4^2 \rho_5^2 \exp(i(2\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,0,4,0,0,0}^r \rho_4^4 \exp(4i\phi_4) + \\
& b_{0,0,0,0,0,1,-2,0,0,0}^r \rho_3^2 \rho_4^2 \exp(-2i\phi_4) + b_{0,0,0,0,0,1,0,0,2,0}^r \rho_3^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,0,0,0,2,0,0,0,-2,0}^r \rho_3^2 \rho_5^2 \exp(i(2\phi_3 - 2\phi_5)) + b_{0,0,0,0,2,0,2,0,0,0}^r \rho_3^2 \rho_4^2 \exp(i(2\phi_3 + 2\phi_4)) + \\
& b_{0,0,0,0,4,0,0,0,0,0}^r \rho_3^4 \exp(4i\phi_3) + b_{0,0,0,1,-2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \exp(-2i\phi_3) + \\
& b_{0,0,0,1,0,0,-2,0,0,0}^r \rho_2^2 \rho_4^2 \exp(-2i\phi_4) + b_{0,0,0,1,0,0,0,0,2,0}^r \rho_2^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,1,0,-1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + b_{0,0,2,0,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 \exp(2i\phi_2) + \\
& b_{0,0,2,0,0,0,0,1,0,0}^r \rho_2^2 \rho_4^2 \exp(2i\phi_2) + b_{0,0,2,0,0,1,0,0,0,0}^r \rho_2^2 \rho_3^2 \exp(2i\phi_2) + \\
& b_{0,0,2,1,0,0,0,0,0,0}^r \rho_2^4 \exp(2i\phi_2) + b_{0,1,0,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \exp(-2i\phi_3) + \\
& b_{0,1,0,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_4^2 \exp(-2i\phi_4) + b_{0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,1,2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \exp(2i\phi_2) + b_{1,0,-1,0,-2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \exp(i(\phi_1 - \phi_2 - 2\phi_3)) + \\
& b_{1,0,-1,0,0,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \exp(i(\phi_1 - \phi_2 - 2\phi_4)) + b_{1,0,-1,0,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \exp(i(\phi_1 - \phi_2 + \\
& 2\phi_5)) + b_{1,0,0,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,0,0,-1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + b_{1,0,1,0,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \exp(i(\phi_1 + \\
& \phi_2)) + b_{1,0,1,0,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \exp(i(\phi_1 + \phi_2)) + b_{1,0,1,0,0,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \exp(i(\phi_1 + \phi_2)) + \\
& b_{1,0,1,1,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \exp(i(\phi_1 + \phi_2)) + b_{1,1,1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \exp(i(\phi_1 + \phi_2)) + \\
& b_{2,0,0,0,0,0,0,0,0,1}^r \rho_1^2 \rho_5^2 \exp(2i\phi_1) + b_{2,0,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 \exp(2i\phi_1) + \\
& b_{2,0,0,0,0,1,0,0,0,0}^r \rho_1^2 \rho_3^2 \exp(2i\phi_1) + b_{2,0,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \exp(2i\phi_1) + \\
& b_{2,1,0,0,0,0,0,0,0,0}^r \rho_1^4 \exp(2i\phi_1) + b_{3,0,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \exp(i(3\phi_1 - \phi_2))
\end{aligned}$$

$$\begin{aligned}
H_{-+}^{(4)} = & b_{-1,0,-1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \exp(-i(-\phi_1 - \phi_2 - 2\phi_5)) + b_{-1,0,-1,0,0,0,2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \exp(-i(-\phi_1 - \\
& \phi_2 + 2\phi_4)) + b_{-1,0,-1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \exp(-i(-\phi_1 - \phi_2 + 2\phi_3)) + b_{-1,0,-3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \exp(- \\
& i(-\phi_1 - 3\phi_2)) + b_{-1,0,0,0,-1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + b_{-1,0,1,0,-2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \exp(-i(- \\
& \phi_1 + \phi_2 - 2\phi_3)) + b_{-1,0,1,0,0,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \exp(-i(-\phi_1 + \phi_2 - 2\phi_4)) + \\
& b_{-1,0,1,0,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \exp(-i(-\phi_1 + \phi_2 + 2\phi_5)) + b_{-1,0,3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \exp(-i(-\phi_1 + \\
& 3\phi_2)) + b_{-2,0,-2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \exp(-i(-2\phi_1 - 2\phi_2)) + b_{-2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \exp(-i(-2\phi_1 - \\
& 2\phi_5)) + b_{-2,0,0,0,0,2,0,0,0}^r \rho_1^2 \rho_4^2 \exp(-i(-2\phi_1 + 2\phi_4)) + b_{-2,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^2 \exp(-i(-2\phi_1 + \\
& 2\phi_3)) + b_{-3,0,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \exp(-i(-3\phi_1 - \phi_2)) + b_{-4,0,0,0,0,0,0,0,0,0}^r \rho_1^4 \exp(4i\phi_1) + \\
& b_{0,0,-1,0,-1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + b_{0,0,-2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \exp(-i(- \\
& 2\phi_2 - 2\phi_5)) + b_{0,0,-2,0,0,0,2,0,0,0}^r \rho_2^2 \rho_4^2 \exp(-i(-2\phi_2 + 2\phi_4)) + b_{0,0,-2,0,2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \exp(-i(- \\
& 2\phi_2 + 2\phi_3)) + b_{0,0,-4,0,0,0,0,0,0,0}^r \rho_2^4 \exp(4i\phi_2) + b_{0,0,0,0,-2,0,0,0,0,1}^r \rho_3^2 \rho_5^2 \exp(2i\phi_3) + \\
& b_{0,0,0,0,-2,0,0,1,0,0}^r \rho_3^2 \rho_4^2 \exp(2i\phi_3) + b_{0,0,0,0,-2,1,0,0,0,0}^r \rho_3^4 \exp(2i\phi_3) + \\
& b_{0,0,0,0,0,-2,0,0,1}^r \rho_4^2 \rho_5^2 \exp(2i\phi_4) + b_{0,0,0,0,0,-2,1,0,0}^r \rho_4^4 \exp(2i\phi_4) +
\end{aligned}$$



$$\begin{aligned}
& b_{0,0,0,0,0,0,0,-4,0}^r \rho_5^4 \exp(4i\phi_5) + b_{0,0,0,0,0,0,0,2,1}^r \rho_5^4 \exp(-2i\phi_5) + b_{0,0,0,0,0,0,1,2,0}^r \rho_4^2 \rho_5^2 \exp(-2i\phi_5) + b_{0,0,0,0,0,2,0,-2,0}^r \rho_4^2 \rho_5^2 \exp(-i(2\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,0,4,0,0}^r \rho_4^4 \exp(-4i\phi_4) + \\
& b_{0,0,0,0,0,1,-2,0,0}^r \rho_3^2 \rho_4^2 \exp(2i\phi_4) + b_{0,0,0,0,0,1,0,0,2,0}^r \rho_3^2 \rho_5^2 \exp(-2i\phi_5) + \\
& b_{0,0,0,0,2,0,0,0,-2,0}^r \rho_3^2 \rho_5^2 \exp(-i(2\phi_3 - 2\phi_5)) + b_{0,0,0,0,2,0,2,0,0}^r \rho_3^2 \rho_4^2 \exp(-i(2\phi_3 + 2\phi_4)) + \\
& b_{0,0,0,0,4,0,0,0,0}^r \rho_3^4 \exp(-4i\phi_3) + b_{0,0,0,1,-2,0,0,0,0}^r \rho_2^2 \rho_3^2 \exp(2i\phi_3) + \\
& b_{0,0,0,1,0,0,-2,0,0}^r \rho_2^2 \rho_4^2 \exp(2i\phi_4) + b_{0,0,0,1,0,0,0,2,0}^r \rho_2^2 \rho_5^2 \exp(-2i\phi_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + b_{0,0,1,0,-1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + b_{0,0,1,0,1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,2,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 \exp(-2i\phi_2) + b_{0,0,2,0,0,0,1,0,0}^r \rho_2^2 \rho_4^2 \exp(-2i\phi_2) + \\
& b_{0,0,2,0,0,1,0,0,0}^r \rho_2^2 \rho_3^2 \exp(-2i\phi_2) + b_{0,0,2,1,0,0,0,0,0}^r \rho_2^4 \exp(-2i\phi_2) + \\
& b_{0,1,0,0,-2,0,0,0,0}^r \rho_1^2 \rho_3^2 \exp(2i\phi_3) + b_{0,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_4^2 \exp(2i\phi_4) + \\
& b_{0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_5^2 \exp(-2i\phi_5) + b_{0,1,2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \exp(-2i\phi_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \exp(-i(\phi_1 - \phi_2 - 2\phi_3)) + b_{1,0,-1,0,0,0,-2,0,0}^r \rho_1 \rho_2 \rho_4^2 \exp(-i(\phi_1 - \phi_2 - 2\phi_4)) + b_{1,0,-1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \exp(-i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,0,0,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + b_{1,0,0,0,-1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + b_{1,0,0,0,1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,1,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \exp(-i(\phi_1 + \phi_2)) + b_{1,0,1,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \exp(-i(\phi_1 + \phi_2)) + \\
& b_{1,0,1,0,0,1,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \exp(-i(\phi_1 + \phi_2)) + b_{1,0,1,1,0,0,0,0,0}^r \rho_1 \rho_2^3 \exp(-i(\phi_1 + \phi_2)) + \\
& b_{1,1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \exp(-i(\phi_1 + \phi_2)) + b_{2,0,0,0,0,0,0,0,1}^r \rho_1^2 \rho_5^2 \exp(-2i\phi_1) + \\
& b_{2,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 \exp(-2i\phi_1) + b_{2,0,0,0,1,0,0,0,0}^r \rho_1^2 \rho_3^2 \exp(-2i\phi_1) + \\
& b_{2,0,0,1,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \exp(-2i\phi_1) + b_{2,1,0,0,0,0,0,0,0}^r \rho_1^4 \exp(-2i\phi_1) + \\
& b_{3,0,-1,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \exp(-i(3\phi_1 - \phi_2))
\end{aligned}$$

### Cartesian e-coordinates:

$$\begin{aligned}
H_{++}^{(4)} = & a_{0,0,0,0,0,0,0,0,2}^r (x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,0,0,1,0,1}^r (x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,0,0,0,0,2,0,0}^r (x_4^2 + y_4^2)^2 + \\
& a_{0,0,0,0,0,0,2,0,2,0}^r (x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,1,0,0,0,1}^r (x_3^2 + y_3^2)(x_5^2 + y_5^2) + a_{0,0,0,0,0,1,0,1,0,0}^r (x_3^2 + y_3^2)(x_4^2 + y_4^2) + a_{0,0,0,0,2,0,0,0,0,0}^r (x_3^2 + y_3^2)^2 + a_{0,0,0,0,2,0,-2,0,0,0}^r (x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,0,0,0,2,0}^r (x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,0,0,1,0,0,0,0,0,1}^r (x_2^2 + y_2^2)(x_5^2 + y_5^2) + a_{0,0,0,1,0,0,0,1,0,0}^r (x_2^2 + y_2^2)(x_4^2 + y_4^2) + a_{0,0,0,1,0,1,0,0,0,0}^r (x_2^2 + y_2^2)(x_3^2 + y_3^2) + a_{0,0,0,2,0,0,0,0,0,0}^r (x_2^2 + y_2^2)^2 + a_{0,0,1,0,-1,0,1,0,-1,0}^r (x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,-1,0,-1,0}^r (x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,1,0,1,0}^r (x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,2,0,0,0,0,0,-2,0}^r (x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,0,2,0,0,0,2,0,0,0}^r (x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,2,0,0,0,0,0}^r (x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,1,0,0,0,0,0,0,0,1}^r (x_1^2 + y_1^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,0,0,1,0,0}^r (x_1^2 + y_1^2)(x_4^2 + y_4^2) + a_{0,1,0,0,0,1,0,0,0,0}^r (x_1^2 + y_1^2)(x_3^2 + y_3^2) + a_{0,1,0,1,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_2^2 + y_2^2) + a_{0,2,0,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)^2 + a_{1,0,-1,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1x_2 + y_1y_2) + a_{1,0,0,0,-1,0,1,0,-1,0}^r (x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,-1,0,-1,0}^r (x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,1,0,1,0}^r (x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(-
\end{aligned}$$

$$\begin{aligned}
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,1,0,0,0,0,0,-2,0}^r(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + \\
& y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,2,0,0,0}^r(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - \\
& x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,2,0,0,0,0,0}^r(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + \\
& y_2y_3^2)) + a_{1,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2 + y_1y_2) + a_{2,0,-2,0,0,0,0,0,0,0}^r(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + \\
& y_2) + y_1(-x_2 + y_2)) + a_{2,0,0,0,0,0,0,0,-2,0}^r(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + \\
& a_{2,0,0,0,0,0,2,0,0,0}^r(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,2,0,0,0,0,0}^r(x_1(x_3 - y_3) + y_1(-x_3 - \\
& y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3))
\end{aligned}$$

$$\begin{aligned}
H_{-}^{(4)} = & a_{0,0,0,0,0,0,0,0,0,2}^r(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,0,0,0,0,2,0,0}^r(x_4^2 + y_4^2)^2 + \\
& a_{0,0,0,0,0,0,2,0,2,0}^r(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + \\
& y_5^2) + a_{0,0,0,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2) + a_{0,0,0,0,0,2,0,0,0,0}^r(x_3^2 + y_3^2)^2 + a_{0,0,0,0,2,0,-2,0,0,0}^r(x_3(x_4 - \\
& y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,0,0,0,2,0}^r(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + \\
& y_3(x_5 - y_5)) + a_{0,0,0,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2) + a_{0,0,0,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& a_{0,0,0,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2) + a_{0,0,0,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2 + a_{0,0,1,0,-1,0,1,0,-1,0}^r(x_2(x_3x_4x_5 + \\
& x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,1,0,1,0,-1,0,-1,0}^r(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + \\
& y_3y_4y_5)) + a_{0,0,1,0,1,0,1,0,1,0}^r(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,2,0,0,0,0,0,-2,0}^r(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,2,0,0,0}^r(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,2,0,0,0,0,0}^r(x_2(x_3 - y_3) + y_2(-x_3 - \\
& y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,1,0,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,0,0,1,0,0}^r(x_1^2 + \\
& y_1^2)(x_4^2 + y_4^2) + a_{0,1,0,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2) + a_{0,1,0,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2) + \\
& a_{0,2,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2 + a_{1,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2 + \\
& y_1y_2) + a_{1,0,0,0,-1,0,1,0,-1,0}^r(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,-1,0,-1,0}^r(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + \\
& x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,1,0,1,0}^r(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,1,0,0,0,0,0,-2,0}^r(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + \\
& y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,2,0,0,0}^r(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - \\
& x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,2,0,0,0,0,0}^r(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + \\
& y_2y_3^2)) + a_{1,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2 + y_1y_2) + a_{2,0,-2,0,0,0,0,0,0,0}^r(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + \\
& y_2) + y_1(-x_2 + y_2)) + a_{2,0,0,0,0,0,0,0,-2,0}^r(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + \\
& a_{2,0,0,0,0,0,2,0,0,0}^r(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,2,0,0,0,0,0}^r(x_1(x_3 - y_3) + y_1(-x_3 - \\
& y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3))
\end{aligned}$$

$$\begin{aligned}
H_{+-}^{(4)} = & b_{-1,0,-1,0,0,0,0,0,-2,0}^r(x_1(x_2x_5^2 - x_2y_5^2 - 2x_5y_2y_5) + y_1(-2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) - \\
& ib_{-1,0,-1,0,0,0,0,0,-2,0}^r(x_1(2x_2x_5y_5 + x_5^2y_2 - y_2y_5^2) + y_1(x_2x_5^2 - x_2y_5^2 - 2x_5y_2y_5)) + \\
& b_{-1,0,-1,0,0,0,2,0,0,0}^r(x_1(x_2x_4^2 - x_2y_4^2 + 2x_4y_2y_4) + y_1(2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + \\
& ib_{-1,0,-1,0,0,0,2,0,0,0}^r(x_1(2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2) + y_1(-x_2x_4^2 + x_2y_4^2 - 2x_4y_2y_4)) + \\
& b_{-1,0,-1,0,2,0,0,0,0,0}^r(x_1(x_2x_3^2 - x_2y_3^2 + 2x_3y_2y_3) + y_1(2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + \\
& ib_{-1,0,-1,0,2,0,0,0,0,0}^r(x_1(2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2) + y_1(-x_2x_3^2 + x_2y_3^2 - 2x_3y_2y_3)) + \\
& b_{-1,0,-3,0,0,0,0,0,0,0}^r(x_1(x_2^3 - 3x_2y_2^2) + y_1(-3x_2^2y_2 + y_2^3)) - ib_{-1,0,-3,0,0,0,0,0,0,0}^r(x_1(3x_2^2y_2 - y_2^3) + \\
& y_1(x_2^3 - 3x_2y_2^2)) + b_{-1,0,0,0,-1,0,-1,0,1,0}^r(x_1(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4) + y_1(x_3x_4y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5)) + ib_{-1,0,0,0,-1,0,-1,0,1,0}^r(x_1(x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5) + y_1(- \\
& x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)) + b_{-1,0,0,0,1,0,1,0,-1,0}^r(x_1(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - \\
& x_5y_3y_4) + y_1(-x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) - ib_{-1,0,0,0,1,0,1,0,-1,0}^r(x_1(x_3x_4y_5 - x_3x_5y_4 - \\
& x_4x_5y_3 - y_3y_4y_5) + y_1(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4)) + b_{-1,0,1,0,-2,0,0,0,0,0}^r(x_1(x_2x_3^2 - \\
& x_2y_3^2 + 2x_3y_2y_3) + y_1(-2x_2x_3y_3 + x_3^2y_2 - y_2y_3^2)) - ib_{-1,0,1,0,-2,0,0,0,0,0}^r(x_1(2x_2x_3y_3 - x_3^2y_2 + \\
& y_2y_3^2) + y_1(x_2x_3^2 - x_2y_3^2 + 2x_3y_2y_3)) + b_{-1,0,1,0,0,0,-2,0,0,0}^r(x_1(x_2x_4^2 - x_2y_4^2 + 2x_4y_2y_4) + y_1(- \\
& 2x_2x_4y_4 + x_4^2y_2 - y_2y_4^2)) - ib_{-1,0,1,0,0,0,-2,0,0,0}^r(x_1(2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2) + y_1(x_2x_4^2 - \\
& x_2y_4^2 + 2x_4y_2y_4)) + b_{-1,0,1,0,0,0,0,0,2,0}^r(x_1(x_2x_5^2 - x_2y_5^2 - 2x_5y_2y_5) + y_1(2x_2x_5y_5 + x_5^2y_2 - \\
& y_2y_5^2)) + ib_{-1,0,1,0,0,0,0,0,2,0}^r(x_1(2x_2x_5y_5 + x_5^2y_2 - y_2y_5^2) + y_1(-x_2x_5^2 + x_2y_5^2 + 2x_5y_2y_5)) + \\
& b_{-1,0,3,0,0,0,0,0,0,0}^r(x_1(x_2^3 - 3x_2y_2^2) + y_1(3x_2^2y_2 - y_2^3)) + ib_{-1,0,3,0,0,0,0,0,0,0}^r(x_1(3x_2^2y_2 - y_2^3) + y_1(- \\
& x_2^3 + 3x_2y_2^2)) - 2ib_{-2,0,-2,0,0,0,0,0,0,0}^r(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + b_{-2,0,-2,0,0,0,0,0,0,0}^r(x_1(x_2 - y_2) + y_1(-x_2 - \\
& y_2))(x_1(x_2 + y_2) + y_1(x_2 - y_2)) - 2ib_{-2,0,0,0,0,0,0,0,-2,0}^r(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) + b_{-2,0,0,0,0,0,0,0,-2,0}^r(x_1(x_5 - \\
& y_5) + y_1(-x_5 - y_5))(x_1(x_5 + y_5) + y_1(x_5 - y_5)) + 2ib_{-2,0,0,0,0,0,2,0,0,0}^r(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) + \\
& b_{-2,0,0,0,0,0,2,0,0,0}^r(x_1(x_4 - y_4) + y_1(x_4 + y_4))(x_1(x_4 + y_4) + y_1(-x_4 + y_4)) + 2ib_{-2,0,0,0,0,2,0,0,0,0}^r(x_1x_3 + \\
& y_1y_3)(x_1y_3 - x_3y_1) + b_{-2,0,0,0,2,0,0,0,0,0}^r(x_1(x_3 - y_3) + y_1(x_3 + y_3))(x_1(x_3 + y_3) + y_1(-x_3 + y_3)) + \\
& b_{-3,0,-1,0,0,0,0,0,0,0}^r(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) - ib_{-3,0,-1,0,0,0,0,0,0,0}^r(x_1^3y_2 + 3x_1^2x_2y_1 - \\
& 3x_1y_1^2y_2 - x_2y_1^3) - 4ib_{-4,0,0,0,0,0,0,0,0,0}^r(x_1y_1(x_1 - y_1)(x_1 + y_1) + b_{-4,0,0,0,0,0,0,0,0,0}^r(x_1^2 - 2x_1y_1 - \\
& y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + b_{0,0,-1,0,-1,0,-1,0,1,0}^r(x_2(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4) + \\
& y_2(x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5)) + ib_{0,0,-1,0,-1,0,-1,0,1,0}^r(x_2(x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 - \\
& y_3y_4y_5) + y_2(-x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)) + b_{0,0,-1,0,1,0,1,0,-1,0}^r(x_2(x_3x_4x_5 + x_3y_4y_5 + \\
& x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) - ib_{0,0,-1,0,1,0,1,0,-1,0}^r(x_2(x_3x_4y_5 - \\
& x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5) + y_2(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4)) - 2ib_{0,0,-2,0,0,0,0,0,-2,0}^r(x_2x_5 - \\
& y_2y_5)(x_2y_5 + x_5y_2) + b_{0,0,-2,0,0,0,0,0,-2,0}^r(x_2(x_5 - y_5) + y_2(-x_5 - y_5))(x_2(x_5 + y_5) + y_2(x_5 - y_5)) + \\
& 2ib_{0,0,-2,0,0,0,2,0,0,0}^r(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + b_{0,0,-2,0,0,0,2,0,0,0}^r(x_2(x_4 - y_4) + y_2(x_4 + y_4))(x_2(x_4 + y_4) + \\
& y_2(-x_4 + y_4)) + 2ib_{0,0,-2,0,2,0,0,0,0,0}^r(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + b_{0,0,-2,0,2,0,0,0,0,0}^r(x_2(x_3 - y_3) + y_2(x_3 + \\
& y_3))(x_2(x_3 + y_3) + y_2(-x_3 + y_3)) - 4ib_{0,0,-4,0,0,0,0,0,0,0}^r(x_2y_2(x_2 - y_2)(x_2 + y_2) + b_{0,0,-4,0,0,0,0,0,0,0}^r(x_2^2 - 2x_2y_2 - \\
& y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - 2ib_{0,0,0,0,-2,0,0,0,0,1}^r(x_3y_3(x_5^2 + y_5^2) + b_{0,0,0,0,-2,0,0,0,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_5^2 + \\
& y_5^2) - 2ib_{0,0,0,0,-2,0,0,1,0,0}^r(x_3y_3(x_4^2 + y_4^2) + b_{0,0,0,0,-2,0,0,1,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2) - \\
& 2ib_{0,0,0,0,-2,1,0,0,0,0}^r(x_3y_3(x_3^2 + y_3^2) + b_{0,0,0,0,-2,1,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) - \\
& 2ib_{0,0,0,0,0,0,-2,0,0,1}^r(x_4y_4(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,-2,0,0,1}^r(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) - \\
& 2ib_{0,0,0,0,0,0,-2,1,0,0}^r(x_4y_4(x_4^2 + y_4^2) + b_{0,0,0,0,0,0,-2,1,0,0}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) - \\
& 4ib_{0,0,0,0,0,0,0,0,-4,0}^r(x_5y_5(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,0,0,0,0,0,-4,0}^r(x_5^2 - 2x_5y_5 - y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) + \\
& 2ib_{0,0,0,0,0,0,0,0,2,1}^r(x_5y_5(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,0,0,2,1}^r(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) + \\
& 2ib_{0,0,0,0,0,0,0,1,2,0}^r(x_5y_5(x_4^2 + y_4^2) + b_{0,0,0,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) - \\
& 2ib_{0,0,0,0,0,0,2,0,-2,0}^r(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) + b_{0,0,0,0,0,0,2,0,-2,0}^r(x_4(x_5 - y_5) + y_4(x_5 + y_5))(x_4(x_5 + y_5) + \\
& y_4(-x_5 + y_5)) + 4ib_{0,0,0,0,0,0,4,0,0,0}^r(x_4y_4(x_4 - y_4)(x_4 + y_4) + b_{0,0,0,0,0,0,4,0,0,0}^r(x_4^2 - 2x_4y_4 - y_4^2)(x_4^2 + \\
& 2x_4y_4 - y_4^2) - 2ib_{0,0,0,0,0,1,-2,0,0,0}^r(x_4y_4(x_3^2 + y_3^2) + b_{0,0,0,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) + \\
& 2ib_{0,0,0,0,0,1,0,0,2,0}^r(x_5y_5(x_3^2 + y_3^2) + b_{0,0,0,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) - \\
& 2ib_{0,0,0,0,2,0,0,0,-2,0}^r(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) + b_{0,0,0,0,2,0,0,0,-2,0}^r(x_3(x_5 - y_5) + y_3(x_5 + y_5))(x_3(x_5 + y_5) + \\
& y_3(-x_5 + y_5)) + 2ib_{0,0,0,0,2,0,2,0,0,0}^r(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + b_{0,0,0,0,2,0,2,0,0,0}^r(x_3(x_4 - y_4) + y_3(-x_4 - \\
& y_4))(x_3(x_4 + y_4) + y_3(x_4 - y_4)) + 4ib_{0,0,0,0,4,0,0,0,0,0}^r(x_3y_3(x_3 - y_3)(x_3 + y_3) + b_{0,0,0,0,4,0,0,0,0,0}^r(x_3^2 - 2x_3y_3 - \\
& y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) - 2ib_{0,0,0,1,-2,0,0,0,0,0}^r(x_3y_3(x_2^2 + y_2^2) + b_{0,0,0,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_3 -
\end{aligned}$$

$$\begin{aligned}
& y_3)(x_3 + y_3) - 2ib_{0,0,0,1,0,0,-2,0,0,0}^r x_4 y_4 (x_2^2 + y_2^2) + b_{0,0,0,1,0,0,-2,0,0,0}^r (x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4) + \\
& 2ib_{0,0,0,1,0,0,0,2,0}^r x_5 y_5 (x_2^2 + y_2^2) + b_{0,0,0,1,0,0,0,2,0}^r (x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,0}^r (x_2(x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_2(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - \\
& y_3 y_4 y_5)) - ib_{0,0,1,0,-1,0,-1,0,-1,0}^r (x_2(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5) + y_2(-x_3 x_4 x_5 + x_3 y_4 y_5 + \\
& x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{0,0,1,0,-1,0,1,0,1,0}^r (x_2(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 - \\
& x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5)) + ib_{0,0,1,0,-1,0,1,0,1,0}^r (x_2(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5) + \\
& y_2(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{0,0,1,0,1,0,-1,0,1,0}^r (x_2(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + \\
& x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 - y_3 y_4 y_5)) + ib_{0,0,1,0,1,0,-1,0,1,0}^r (x_2(x_3 x_4 y_5 - x_3 x_5 y_4 + \\
& x_4 x_5 y_3 + y_3 y_4 y_5) + y_2(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)) + 2ib_{0,0,2,0,0,0,0,0,0,1}^r x_2 y_2 (x_5^2 + \\
& y_5^2) + b_{0,0,2,0,0,0,0,0,0,1}^r (x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) + 2ib_{0,0,2,0,0,0,0,1,0,0}^r x_2 y_2 (x_4^2 + y_4^2) + \\
& b_{0,0,2,0,0,0,0,1,0,0}^r (x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2) + 2ib_{0,0,2,0,0,1,0,0,0,0}^r x_2 y_2 (x_3^2 + y_3^2) + b_{0,0,2,0,0,1,0,0,0,0}^r (x_2 - \\
& y_2)(x_2 + y_2)(x_3^2 + y_3^2) + 2ib_{0,0,2,1,0,0,0,0,0,0}^r x_2 y_2 (x_2^2 + y_2^2) + b_{0,0,2,1,0,0,0,0,0,0}^r (x_2 - y_2)(x_2 + y_2)(x_2^2 + \\
& y_2^2) - 2ib_{0,1,0,0,-2,0,0,0,0,0}^r x_3 y_3 (x_1^2 + y_1^2) + b_{0,1,0,0,-2,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3) - \\
& 2ib_{0,1,0,0,0,0,-2,0,0,0}^r x_4 y_4 (x_1^2 + y_1^2) + b_{0,1,0,0,0,0,-2,0,0,0}^r (x_1^2 + y_1^2)(x_4 - y_4)(x_4 + y_4) + \\
& 2ib_{0,1,0,0,0,0,0,2,0}^r x_5 y_5 (x_1^2 + y_1^2) + b_{0,1,0,0,0,0,0,2,0}^r (x_1^2 + y_1^2)(x_5 - y_5)(x_5 + y_5) + \\
& 2ib_{0,1,2,0,0,0,0,0,0,0}^r x_2 y_2 (x_1^2 + y_1^2) + b_{0,1,2,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,0}^r (x_1(x_2 x_3^2 - x_2 y_3^2 - 2x_3 y_2 y_3) + y_1(2x_2 x_3 y_3 + x_3^2 y_2 - y_2 y_3^2)) - \\
& ib_{1,0,-1,0,-2,0,0,0,0,0}^r (x_1(2x_2 x_3 y_3 + x_3^2 y_2 - y_2 y_3^2) + y_1(-x_2 x_3^2 + x_2 y_3^2 + 2x_3 y_2 y_3)) + \\
& b_{1,0,-1,0,0,0,-2,0,0,0}^r (x_1(x_2 x_4^2 - x_2 y_4^2 - 2x_4 y_2 y_4) + y_1(2x_2 x_4 y_4 + x_4^2 y_2 - y_2 y_4^2)) - \\
& ib_{1,0,-1,0,0,0,-2,0,0,0}^r (x_1(2x_2 x_4 y_4 + x_4^2 y_2 - y_2 y_4^2) + y_1(-x_2 x_4^2 + x_2 y_4^2 + 2x_4 y_2 y_4)) + \\
& b_{1,0,-1,0,0,0,0,2,0}^r (x_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5) + y_1(-2x_2 x_5 y_5 + x_5^2 y_2 - y_2 y_5^2)) + \\
& ib_{1,0,-1,0,0,0,0,2,0}^r (x_1(2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2) + y_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5)) + \\
& b_{1,0,0,0,-1,0,-1,0,-1,0}^r (x_1(x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_1(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - \\
& y_3 y_4 y_5)) - ib_{1,0,0,0,-1,0,-1,0,-1,0}^r (x_1(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5) + y_1(-x_3 x_4 x_5 + x_3 y_4 y_5 + \\
& x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{1,0,0,0,-1,0,1,0,1,0}^r (x_1(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + y_1(-x_3 x_4 y_5 - \\
& x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5)) + ib_{1,0,0,0,-1,0,1,0,1,0}^r (x_1(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5) + \\
& y_1(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{1,0,0,0,1,0,-1,0,1,0}^r (x_1(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + \\
& x_5 y_3 y_4) + y_1(-x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 - y_3 y_4 y_5)) + ib_{1,0,0,0,1,0,-1,0,1,0}^r (x_1(x_3 x_4 y_5 - x_3 x_5 y_4 + \\
& x_4 x_5 y_3 + y_3 y_4 y_5) + y_1(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{1,0,1,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_2 - \\
& y_1 y_2) + ib_{1,0,1,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 y_2 + x_2 y_1) + b_{1,0,1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_2 - y_1 y_2) + \\
& ib_{1,0,1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1 y_2 + x_2 y_1) + b_{1,0,1,0,0,0,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_2 - y_1 y_2) + \\
& ib_{1,0,1,0,0,0,0,0,0,0}^r (x_3^2 + y_3^2)(x_1 y_2 + x_2 y_1) + b_{1,0,1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1 x_2 - y_1 y_2) + \\
& ib_{1,0,1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1 y_2 + x_2 y_1) + b_{1,1,1,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_2 - y_1 y_2) + \\
& ib_{1,1,1,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 y_2 + x_2 y_1) + 2ib_{2,0,0,0,0,0,0,0,1}^r x_1 y_1 (x_5^2 + y_5^2) + b_{2,0,0,0,0,0,0,0,1}^r (x_1 - \\
& y_1)(x_1 + y_1)(x_5^2 + y_5^2) + 2ib_{2,0,0,0,0,0,0,1,0,0}^r x_1 y_1 (x_4^2 + y_4^2) + b_{2,0,0,0,0,0,0,1,0,0}^r (x_1 - y_1)(x_1 + y_1)(x_4^2 + \\
& y_4^2) + 2ib_{2,0,0,0,0,0,0,0,0,0}^r x_1 y_1 (x_3^2 + y_3^2) + b_{2,0,0,0,0,0,0,0,0,0}^r (x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2) + \\
& 2ib_{2,0,0,1,0,0,0,0,0,0}^r x_1 y_1 (x_2^2 + y_2^2) + b_{2,0,0,1,0,0,0,0,0,0}^r (x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2) + \\
& 2ib_{2,1,0,0,0,0,0,0,0,0}^r x_1 y_1 (x_1^2 + y_1^2) + b_{2,1,0,0,0,0,0,0,0,0}^r (x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2) + \\
& b_{3,0,-1,0,0,0,0,0,0,0}^r (x_1^3 x_2 + 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 - y_1^3 y_2) - ib_{3,0,-1,0,0,0,0,0,0,0}^r (x_1^3 y_2 - 3x_1^2 x_2 y_1 - \\
& 3x_1 y_1^2 y_2 + x_2 y_1^3)
\end{aligned}$$

$$H_{-+}^{(4)} = b_{-1,0,-1,0,0,0,0,0,-2,0}^r (x_1(x_2 x_5^2 - x_2 y_5^2 - 2x_5 y_2 y_5) + y_1(-2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2)) +$$

$$\begin{aligned}
& ib_{-1,0,-1,0,0,0,0,-2,0}^r(x_1(2x_2x_5y_5 + x_5^2y_2 - y_2y_5^2) + y_1(x_2x_5^2 - x_2y_5^2 - 2x_5y_2y_5)) + \\
& b_{-1,0,-1,0,0,0,2,0,0,0}^r(x_1(x_2x_4^2 - x_2y_4^2 + 2x_4y_2y_4) + y_1(2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) - \\
& ib_{-1,0,-1,0,0,0,2,0,0,0}^r(x_1(2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2) + y_1(-x_2x_4^2 + x_2y_4^2 - 2x_4y_2y_4)) + \\
& b_{-1,0,-1,0,2,0,0,0,0,0}^r(x_1(x_2x_3^2 - x_2y_3^2 + 2x_3y_2y_3) + y_1(2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) - \\
& ib_{-1,0,-1,0,2,0,0,0,0,0}^r(x_1(2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2) + y_1(-x_2x_3^2 + x_2y_3^2 - 2x_3y_2y_3)) + \\
& b_{-1,0,-3,0,0,0,0,0,0,0}^r(x_1(x_2^3 - 3x_2y_2^2) + y_1(-3x_2^2y_2 + y_2^3)) + ib_{-1,0,-3,0,0,0,0,0,0,0}^r(x_1(3x_2^2y_2 - y_2^3) + \\
& y_1(x_2^3 - 3x_2y_2^2)) + b_{-1,0,0,0,-1,0,-1,0,1,0}^r(x_1(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4) + y_1(x_3x_4y_5 - \\
& x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5)) - ib_{-1,0,0,0,-1,0,-1,0,1,0}^r(x_1(x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5) + y_1(- \\
& x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)) + b_{-1,0,0,0,1,0,1,0,-1,0}^r(x_1(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - \\
& x_5y_3y_4) + y_1(-x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + ib_{-1,0,0,0,1,0,1,0,-1,0}^r(x_1(x_3x_4y_5 - x_3x_5y_4 - \\
& x_4x_5y_3 - y_3y_4y_5) + y_1(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4)) + b_{-1,0,1,0,-2,0,0,0,0,0}^r(x_1(x_2x_3^2 - \\
& x_2y_3^2 + 2x_3y_2y_3) + y_1(-2x_2x_3y_3 + x_3^2y_2 - y_2y_3^2)) + ib_{-1,0,1,0,-2,0,0,0,0,0}^r(x_1(2x_2x_3y_3 - x_3^2y_2 + \\
& y_2y_3^2) + y_1(x_2x_3^2 - x_2y_3^2 + 2x_3y_2y_3)) + b_{-1,0,1,0,0,0,-2,0,0,0}^r(x_1(x_2x_4^2 - x_2y_4^2 + 2x_4y_2y_4) + y_1(- \\
& 2x_2x_4y_4 + x_4^2y_2 - y_2y_4^2)) + ib_{-1,0,1,0,0,0,-2,0,0,0}^r(x_1(2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2) + y_1(x_2x_4^2 - \\
& x_2y_4^2 + 2x_4y_2y_4)) + b_{-1,0,1,0,0,0,0,0,2,0}^r(x_1(x_2x_5^2 - x_2y_5^2 - 2x_5y_2y_5) + y_1(2x_2x_5y_5 + x_5^2y_2 - \\
& y_2y_5^2)) - ib_{-1,0,1,0,0,0,0,0,2,0}^r(x_1(2x_2x_5y_5 + x_5^2y_2 - y_2y_5^2) + y_1(-x_2x_5^2 + x_2y_5^2 + 2x_5y_2y_5)) + \\
& b_{-1,0,3,0,0,0,0,0,0,0}^r(x_1(x_2^3 - 3x_2y_2^2) + y_1(3x_2^2y_2 - y_2^3)) - ib_{-1,0,3,0,0,0,0,0,0,0}^r(x_1(3x_2^2y_2 - y_2^3) + y_1(- \\
& x_2^3 + 3x_2y_2^2)) + 2ib_{-2,0,-2,0,0,0,0,0,0,0}^r(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + b_{-2,0,-2,0,0,0,0,0,0,0}^r(x_1(x_2 - y_2) + y_1(-x_2 - \\
& y_2))(x_1(x_2 + y_2) + y_1(x_2 - y_2)) + 2ib_{-2,0,0,0,0,0,0,0,-2,0}^r(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) + b_{-2,0,0,0,0,0,0,0,-2,0}^r(x_1(x_5 - \\
& y_5) + y_1(-x_5 - y_5))(x_1(x_5 + y_5) + y_1(x_5 - y_5)) - 2ib_{-2,0,0,0,0,0,2,0,0,0}^r(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) + \\
& b_{-2,0,0,0,0,0,2,0,0,0}^r(x_1(x_4 - y_4) + y_1(x_4 + y_4))(x_1(x_4 + y_4) + y_1(-x_4 + y_4)) - 2ib_{-2,0,0,0,2,0,0,0,0,0}^r(x_1x_3 + \\
& y_1y_3)(x_1y_3 - x_3y_1) + b_{-2,0,0,0,2,0,0,0,0,0}^r(x_1(x_3 - y_3) + y_1(x_3 + y_3))(x_1(x_3 + y_3) + y_1(-x_3 + y_3)) + \\
& b_{-3,0,-1,0,0,0,0,0,0,0}^r(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) + ib_{-3,0,-1,0,0,0,0,0,0,0}^r(x_1^3y_2 + 3x_1^2x_2y_1 - \\
& 3x_1y_1^2y_2 - x_2y_1^3) + 4ib_{-4,0,0,0,0,0,0,0,0,0}^r(x_1y_1(x_1 - y_1)(x_1 + y_1) + b_{-4,0,0,0,0,0,0,0,0,0}^r(x_1^2 - 2x_1y_1 - \\
& y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + b_{0,0,-1,0,-1,0,-1,0,1,0}^r(x_2(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4) + \\
& y_2(x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5)) - ib_{0,0,-1,0,-1,0,-1,0,1,0}^r(x_2(x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 - \\
& y_3y_4y_5) + y_2(-x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)) + b_{0,0,-1,0,1,0,1,0,-1,0}^r(x_2(x_3x_4x_5 + x_3y_4y_5 + \\
& x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + ib_{0,0,-1,0,1,0,1,0,-1,0}^r(x_2(x_3x_4y_5 - \\
& x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5) + y_2(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4)) + 2ib_{0,0,-2,0,0,0,0,0,-2,0}^r(x_2x_5 - \\
& y_2y_5)(x_2y_5 + x_5y_2) + b_{0,0,-2,0,0,0,0,0,-2,0}^r(x_2(x_5 - y_5) + y_2(-x_5 - y_5))(x_2(x_5 + y_5) + y_2(x_5 - y_5)) - \\
& 2ib_{0,0,-2,0,0,0,2,0,0,0}^r(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + b_{0,0,-2,0,0,0,2,0,0,0}^r(x_2(x_4 - y_4) + y_2(x_4 + y_4))(x_2(x_4 + y_4) + \\
& y_2(-x_4 + y_4)) - 2ib_{0,0,-2,0,2,0,0,0,0,0}^r(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + b_{0,0,-2,0,2,0,0,0,0,0}^r(x_2(x_3 - y_3) + y_2(x_3 + \\
& y_3))(x_2(x_3 + y_3) + y_2(-x_3 + y_3)) + 4ib_{0,0,-4,0,0,0,0,0,0,0}^r(x_2y_2(x_2 - y_2)(x_2 + y_2) + b_{0,0,-4,0,0,0,0,0,0,0}^r(x_2^2 - 2x_2y_2 - \\
& y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) + 2ib_{0,0,0,0,-2,0,0,0,0,1}^r(x_3y_3(x_5^2 + y_5^2) + b_{0,0,0,0,-2,0,0,0,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_5^2 + \\
& y_5^2) + 2ib_{0,0,0,0,-2,0,0,1,0,0}^r(x_3y_3(x_4^2 + y_4^2) + b_{0,0,0,0,-2,0,0,1,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2) + \\
& 2ib_{0,0,0,0,-2,1,0,0,0,0}^r(x_3y_3(x_3^2 + y_3^2) + b_{0,0,0,0,-2,1,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + \\
& 2ib_{0,0,0,0,0,0,-2,0,0,1}^r(x_4y_4(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,-2,0,0,1}^r(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) + \\
& 2ib_{0,0,0,0,0,0,-2,1,0,0}^r(x_4y_4(x_4^2 + y_4^2) + b_{0,0,0,0,0,0,-2,1,0,0}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + \\
& 4ib_{0,0,0,0,0,0,0,0,-4,0}^r(x_5y_5(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,0,0,0,0,0,-4,0}^r(x_5^2 - 2x_5y_5 - y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) - \\
& 2ib_{0,0,0,0,0,0,0,0,2,1}^r(x_5y_5(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,0,0,2,1}^r(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) - \\
& 2ib_{0,0,0,0,0,0,0,1,2,0}^r(x_5y_5(x_4^2 + y_4^2) + b_{0,0,0,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) + \\
& 2ib_{0,0,0,0,0,0,2,0,-2,0}^r(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) + b_{0,0,0,0,0,0,2,0,-2,0}^r(x_4(x_5 - y_5) + y_4(x_5 + y_5))(x_4(x_5 + y_5) +
\end{aligned}$$

$$\begin{aligned}
& y_4(-x_5 + y_5)) - 4ib_{0,0,0,0,0,0,4,0,0,0}^r x_4 y_4 (x_4 - y_4)(x_4 + y_4) + b_{0,0,0,0,0,0,4,0,0,0}^r (x_4^2 - 2x_4 y_4 - y_4^2)(x_4^2 + \\
& 2x_4 y_4 - y_4^2) + 2ib_{0,0,0,0,0,1,-2,0,0,0}^r x_4 y_4 (x_3^2 + y_3^2) + b_{0,0,0,0,0,1,-2,0,0,0}^r (x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) - \\
& 2ib_{0,0,0,0,0,1,0,0,2,0}^r x_5 y_5 (x_3^2 + y_3^2) + b_{0,0,0,0,0,1,0,0,2,0}^r (x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) + \\
& 2ib_{0,0,0,0,2,0,0,0,-2,0}^r (x_3 x_5 + y_3 y_5)(x_3 y_5 - x_5 y_3) + b_{0,0,0,0,2,0,0,0,-2,0}^r (x_3(x_5 - y_5) + y_3(x_5 + y_5))(x_3(x_5 + y_5) + \\
& y_3(-x_5 + y_5)) - 2ib_{0,0,0,0,2,0,2,0,0,0}^r (x_3 x_4 - y_3 y_4)(x_3 y_4 + x_4 y_3) + b_{0,0,0,0,2,0,2,0,0,0}^r (x_3(x_4 - y_4) + y_3(-x_4 - \\
& y_4))(x_3(x_4 + y_4) + y_3(x_4 - y_4)) - 4ib_{0,0,0,0,4,0,0,0,0,0}^r x_3 y_3 (x_3 - y_3)(x_3 + y_3) + b_{0,0,0,0,4,0,0,0,0,0}^r (x_3^2 - 2x_3 y_3 - \\
& y_3^2)(x_3^2 + 2x_3 y_3 - y_3^2) + 2ib_{0,0,0,1,-2,0,0,0,0,0}^r x_3 y_3 (x_2^2 + y_2^2) + b_{0,0,0,1,-2,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_3 - \\
& y_3)(x_3 + y_3) + 2ib_{0,0,0,1,0,0,-2,0,0,0}^r x_4 y_4 (x_2^2 + y_2^2) + b_{0,0,0,1,0,0,-2,0,0,0}^r (x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4) - \\
& 2ib_{0,0,0,1,0,0,0,0,2,0}^r x_5 y_5 (x_2^2 + y_2^2) + b_{0,0,0,1,0,0,0,0,2,0}^r (x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,0}^r (x_2(x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_2(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - \\
& y_3 y_4 y_5)) + ib_{0,0,1,0,-1,0,-1,0,-1,0}^r (x_2(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5) + y_2(-x_3 x_4 x_5 + x_3 y_4 y_5 + \\
& x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{0,0,1,0,-1,0,1,0,1,0}^r (x_2(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 - \\
& x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5)) - ib_{0,0,1,0,-1,0,1,0,1,0}^r (x_2(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5) + \\
& y_2(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{0,0,1,0,1,0,-1,0,1,0}^r (x_2(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + \\
& x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 - y_3 y_4 y_5)) - ib_{0,0,1,0,1,0,-1,0,1,0}^r (x_2(x_3 x_4 y_5 - x_3 x_5 y_4 + \\
& x_4 x_5 y_3 + y_3 y_4 y_5) + y_2(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)) - 2ib_{0,0,2,0,0,0,0,0,0,1}^r x_2 y_2 (x_5^2 + \\
& y_5^2) + b_{0,0,2,0,0,0,0,0,0,1}^r (x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) - 2ib_{0,0,2,0,0,0,0,1,0,0}^r x_2 y_2 (x_4^2 + y_4^2) + \\
& b_{0,0,2,0,0,0,0,1,0,0}^r (x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2) - 2ib_{0,0,2,0,0,1,0,0,0,0}^r x_2 y_2 (x_3^2 + y_3^2) + b_{0,0,2,0,0,1,0,0,0,0}^r (x_2 - \\
& y_2)(x_2 + y_2)(x_3^2 + y_3^2) - 2ib_{0,0,2,1,0,0,0,0,0,0}^r x_2 y_2 (x_2^2 + y_2^2) + b_{0,0,2,1,0,0,0,0,0,0}^r (x_2 - y_2)(x_2 + y_2)(x_2^2 + \\
& y_2^2) + 2ib_{0,1,0,0,-2,0,0,0,0,0}^r x_3 y_3 (x_1^2 + y_1^2) + b_{0,1,0,0,-2,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3) + \\
& 2ib_{0,1,0,0,0,0,-2,0,0,0}^r x_4 y_4 (x_1^2 + y_1^2) + b_{0,1,0,0,0,0,-2,0,0,0}^r (x_1^2 + y_1^2)(x_4 - y_4)(x_4 + y_4) - \\
& 2ib_{0,1,0,0,0,0,0,0,2,0}^r x_5 y_5 (x_1^2 + y_1^2) + b_{0,1,0,0,0,0,0,0,2,0}^r (x_1^2 + y_1^2)(x_5 - y_5)(x_5 + y_5) - \\
& 2ib_{0,1,2,0,0,0,0,0,0,0}^r x_2 y_2 (x_1^2 + y_1^2) + b_{0,1,2,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,0}^r (x_1(x_2 x_3^2 - x_2 y_3^2 - 2x_3 y_2 y_3) + y_1(2x_2 x_3 y_3 + x_3^2 y_2 - y_2 y_3^2)) + \\
& ib_{1,0,-1,0,-2,0,0,0,0,0}^r (x_1(2x_2 x_3 y_3 + x_3^2 y_2 - y_2 y_3^2) + y_1(-x_2 x_3^2 + x_2 y_3^2 + 2x_3 y_2 y_3)) + \\
& b_{1,0,-1,0,0,0,-2,0,0,0}^r (x_1(x_2 x_4^2 - x_2 y_4^2 - 2x_4 y_2 y_4) + y_1(2x_2 x_4 y_4 + x_4^2 y_2 - y_2 y_4^2)) + \\
& ib_{1,0,-1,0,0,0,-2,0,0,0}^r (x_1(2x_2 x_4 y_4 + x_4^2 y_2 - y_2 y_4^2) + y_1(-x_2 x_4^2 + x_2 y_4^2 + 2x_4 y_2 y_4)) + \\
& b_{1,0,-1,0,0,0,0,0,2,0}^r (x_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5) + y_1(-2x_2 x_5 y_5 + x_5^2 y_2 - y_2 y_5^2)) - \\
& ib_{1,0,-1,0,0,0,0,0,2,0}^r (x_1(2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2) + y_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5)) + \\
& b_{1,0,0,0,-1,0,-1,0,-1,0}^r (x_1(x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_1(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - \\
& y_3 y_4 y_5)) + ib_{1,0,0,0,-1,0,-1,0,-1,0}^r (x_1(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5) + y_1(-x_3 x_4 x_5 + x_3 y_4 y_5 + \\
& x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{1,0,0,0,-1,0,1,0,1,0}^r (x_1(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + y_1(-x_3 x_4 y_5 - \\
& x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5)) - ib_{1,0,0,0,-1,0,1,0,1,0}^r (x_1(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5) + \\
& y_1(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{1,0,0,0,1,0,-1,0,1,0}^r (x_1(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + \\
& x_5 y_3 y_4) + y_1(-x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 - y_3 y_4 y_5)) - ib_{1,0,0,0,1,0,-1,0,1,0}^r (x_1(x_3 x_4 y_5 - x_3 x_5 y_4 + \\
& x_4 x_5 y_3 + y_3 y_4 y_5) + y_1(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{1,0,1,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_2 - \\
& y_1 y_2) - ib_{1,0,1,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 y_2 + x_2 y_1) + b_{1,0,1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_2 - y_1 y_2) - \\
& ib_{1,0,1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1 y_2 + x_2 y_1) + b_{1,0,1,0,0,0,1,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_2 - y_1 y_2) - \\
& ib_{1,0,1,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1 y_2 + x_2 y_1) + b_{1,0,1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1 x_2 - y_1 y_2) - \\
& ib_{1,0,1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1 y_2 + x_2 y_1) + b_{1,1,1,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_2 - y_1 y_2) - \\
& ib_{1,1,1,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 y_2 + x_2 y_1) - 2ib_{2,0,0,0,0,0,0,0,0,1}^r x_1 y_1 (x_5^2 + y_5^2) + b_{2,0,0,0,0,0,0,0,0,1}^r (x_1 - \\
& y_1)(x_1 + y_1)(x_5^2 + y_5^2) - 2ib_{2,0,0,0,0,0,0,1,0,0}^r x_1 y_1 (x_4^2 + y_4^2) + b_{2,0,0,0,0,0,0,1,0,0}^r (x_1 - y_1)(x_1 + y_1)(x_4^2 +
\end{aligned}$$

$$\begin{aligned}
& y_4^2) - 2ib_{2,0,0,0,1,0,0,0,0}^r x_1 y_1 (x_3^2 + y_3^2) + b_{2,0,0,0,1,0,0,0,0}^r (x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2) - \\
& 2ib_{2,0,0,1,0,0,0,0,0}^r x_1 y_1 (x_2^2 + y_2^2) + b_{2,0,0,1,0,0,0,0,0}^r (x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2) - \\
& 2ib_{2,1,0,0,0,0,0,0,0}^r x_1 y_1 (x_1^2 + y_1^2) + b_{2,1,0,0,0,0,0,0,0}^r (x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2) + \\
& b_{3,0,-1,0,0,0,0,0,0}^r (x_1^3 x_2 + 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 - y_1^3 y_2) + ib_{3,0,-1,0,0,0,0,0,0}^r (x_1^3 y_2 - 3x_1^2 x_2 y_1 - \\
& 3x_1 y_1^2 y_2 + x_2 y_1^3)
\end{aligned}$$

### 3.6 Order: 5

Number of fitting parameters:  $H_{++}$ : 92,  $H_{+-}$ : 174.

**Polar e-coordinates:**

$$\begin{aligned}
H_{++}^{(5)} = & a_{0,0,0,0,1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(-\phi_3 + \phi_4 + 3\phi_5) + a_{0,0,0,0,1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 - \phi_4 + \\
& 3\phi_5) + a_{0,0,0,0,1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 - 3\phi_4 + \phi_5) + a_{0,0,0,0,1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \\
& \phi_4 - \phi_5) + a_{0,0,0,0,1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,0,0,1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + \\
& 3\phi_4 + \phi_5) + a_{0,0,0,0,1,1,1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,0,0,3,0,-1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(- \\
& 3\phi_3 + \phi_4 + \phi_5) + a_{0,0,0,0,3,0,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(3\phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,0,1,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,1,0,-2,0,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 - \\
& 2\phi_3) + a_{0,0,1,0,-2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_3) + a_{0,0,1,0,-2,1,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 - 2\phi_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,0,0,0,-2,1,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,0,0,0,0,-4,0}^r \rho_2 \rho_5^4 \cos(\phi_2 - 4\phi_5) + a_{0,0,1,0,0,0,0,2,1}^r \rho_2 \rho_5^4 \cos(\phi_2 + 2\phi_5) + \\
& a_{0,0,1,0,0,0,0,1,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,1,0,0,0,2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_4 - \\
& 2\phi_5) + a_{0,0,1,0,0,0,4,0,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 + 4\phi_4) + a_{0,0,1,0,0,1,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,0,0,1,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,1,0,2,0,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_3 - \\
& 2\phi_5) + a_{0,0,1,0,2,0,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 + 2\phi_3 + 2\phi_4) + a_{0,0,1,0,4,0,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 + \\
& 4\phi_3) + a_{0,0,1,1,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(\phi_2 - 2\phi_3) + a_{0,0,1,1,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,1,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_2 + \phi_3 + \phi_4 + \\
& \phi_5) + a_{0,0,2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 - \phi_4 + \phi_5) + a_{0,0,3,0,0,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \cos(3\phi_2) + \\
& a_{0,0,3,0,0,0,0,1,0,0}^r \rho_2^3 \rho_4^2 \cos(3\phi_2) + a_{0,0,3,0,0,1,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(3\phi_2) + \\
& a_{0,0,3,1,0,0,0,0,0,0}^r \rho_2^5 \cos(3\phi_2) + a_{0,1,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + \\
& a_{0,1,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(\phi_2 - 2\phi_3) + a_{0,1,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,1,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,1,3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(3\phi_2) + \\
& a_{1,0,-1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,-1,0,1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,-2,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(-\phi_1 + 2\phi_2 + 2\phi_5) + a_{1,0,-2,0,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - \\
& 2\phi_2 + 2\phi_4) + a_{1,0,-2,0,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_2 + 2\phi_3) + \\
& a_{1,0,-4,0,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1 - 4\phi_2) + a_{1,0,0,0,-2,0,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 - 2\phi_3) + \\
& a_{1,0,0,0,-2,0,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 - 2\phi_3) + a_{1,0,0,0,-2,1,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 - 2\phi_3) + \\
& a_{1,0,0,0,0,0,-2,0,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 - 2\phi_4) + a_{1,0,0,0,0,0,-2,1,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,0,0,0,0,0,0,-4,0}^r \rho_1 \rho_5^4 \cos(\phi_1 - 4\phi_5) + a_{1,0,0,0,0,0,0,2,1}^r \rho_1 \rho_5^4 \cos(\phi_1 + 2\phi_5) + \\
& a_{1,0,0,0,0,0,0,1,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,0,0,0,0,2,0,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_4 - \\
& 2\phi_5) + a_{1,0,0,0,0,0,4,0,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 + 4\phi_4) + a_{1,0,0,0,0,1,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,0,0,0,0,1,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,0,0,2,0,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_3 -
\end{aligned}$$

$$\begin{aligned}
& 2\phi_5) + a_{1,0,0,0,2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(\phi_1 + 2\phi_3 + 2\phi_4) + a_{1,0,0,0,4,0,0,0,0,0}^r \rho_1^4 \rho_3^4 \cos(\phi_1 + \\
& 4\phi_3) + a_{1,0,0,1,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_3) + a_{1,0,0,1,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(\phi_1 - \\
& 2\phi_4) + a_{1,0,0,1,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(- \\
& \phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{1,0,1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,2,0,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_2) + a_{1,0,2,0,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 + 2\phi_2) + \\
& a_{1,0,2,0,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 + 2\phi_2) + a_{1,0,2,1,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1 + 2\phi_2) + \\
& a_{1,1,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(\phi_1 - 2\phi_3) + a_{1,1,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,1,2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 + 2\phi_2) + \\
& a_{2,0,-1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(-2\phi_1 + \phi_2 + 2\phi_3) + a_{2,0,-1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(-2\phi_1 + \\
& \phi_2 + 2\phi_4) + a_{2,0,-1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 - \phi_2 + 2\phi_5) + \\
& a_{2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{2,0,1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 + \phi_2) + a_{2,0,1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 + \phi_2) + \\
& a_{2,0,1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 + \phi_2) + a_{2,0,1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(2\phi_1 + \phi_2) + \\
& a_{2,1,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(2\phi_1 + \phi_2) + a_{3,0,0,0,0,0,0,0,1}^r \rho_1^3 \rho_5^2 \cos(3\phi_1) + \\
& a_{3,0,0,0,0,0,0,1,0,0}^r \rho_1^3 \rho_4^2 \cos(3\phi_1) + a_{3,0,0,0,0,1,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(3\phi_1) + \\
& a_{3,0,0,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(3\phi_1) + a_{3,1,0,0,0,0,0,0,0,0}^r \rho_1^5 \cos(3\phi_1) + \\
& a_{4,0,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(4\phi_1 - \phi_2)
\end{aligned}$$

$$\begin{aligned}
H_{--}^{(5)} = & a_{0,0,0,0,1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(-\phi_3 + \phi_4 + 3\phi_5) + a_{0,0,0,0,1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 - \phi_4 + \\
& 3\phi_5) + a_{0,0,0,0,1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 - 3\phi_4 + \phi_5) + a_{0,0,0,0,1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \\
& \phi_4 - \phi_5) + a_{0,0,0,0,1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,0,0,1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + \\
& 3\phi_4 + \phi_5) + a_{0,0,0,0,1,1,1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,0,0,3,0,-1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(- \\
& 3\phi_3 + \phi_4 + \phi_5) + a_{0,0,0,0,3,0,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(3\phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,0,1,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,1,0,-2,0,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 - \\
& 2\phi_3) + a_{0,0,1,0,-2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_3) + a_{0,0,1,0,-2,1,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 - 2\phi_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,0,0,0,-2,1,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,0,0,0,0,-4,0}^r \rho_2 \rho_5^4 \cos(\phi_2 - 4\phi_5) + a_{0,0,1,0,0,0,0,2,1}^r \rho_2 \rho_5^4 \cos(\phi_2 + 2\phi_5) + \\
& a_{0,0,1,0,0,0,0,1,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,1,0,0,0,2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_4 - \\
& 2\phi_5) + a_{0,0,1,0,0,0,4,0,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 + 4\phi_4) + a_{0,0,1,0,0,1,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,0,0,1,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,1,0,2,0,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_3 - \\
& 2\phi_5) + a_{0,0,1,0,2,0,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 + 2\phi_3 + 2\phi_4) + a_{0,0,1,0,4,0,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 + \\
& 4\phi_3) + a_{0,0,1,1,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(\phi_2 - 2\phi_3) + a_{0,0,1,1,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,1,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_2 + \phi_3 + \phi_4 + \\
& \phi_5) + a_{0,0,2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 - \phi_4 + \phi_5) + a_{0,0,3,0,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \cos(3\phi_2) + \\
& a_{0,0,3,0,0,0,0,1,0,0}^r \rho_2^3 \rho_4^2 \cos(3\phi_2) + a_{0,0,3,0,0,1,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(3\phi_2) + \\
& a_{0,0,3,1,0,0,0,0,0,0}^r \rho_2^5 \cos(3\phi_2) + a_{0,1,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + \\
& a_{0,1,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(\phi_2 - 2\phi_3) + a_{0,1,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,1,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,1,3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(3\phi_2) +
\end{aligned}$$



$$\begin{aligned}
& a_{1,0,-1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,-1,0,1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,-2,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(-\phi_1 + 2\phi_2 + 2\phi_5) + a_{1,0,-2,0,0,0,2,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - \\
& 2\phi_2 + 2\phi_4) + a_{1,0,-2,0,2,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_2 + 2\phi_3) + \\
& a_{1,0,-4,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1 - 4\phi_2) + a_{1,0,0,0,-2,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 - 2\phi_3) + \\
& a_{1,0,0,0,-2,0,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 - 2\phi_3) + a_{1,0,0,0,-2,1,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 - 2\phi_3) + \\
& a_{1,0,0,0,0,0,-2,0,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 - 2\phi_4) + a_{1,0,0,0,0,0,-2,1,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,0,0,0,0,0,0,0,-4,0}^r \rho_1 \rho_5^4 \cos(\phi_1 - 4\phi_5) + a_{1,0,0,0,0,0,0,2,1}^r \rho_1 \rho_5^4 \cos(\phi_1 + 2\phi_5) + \\
& a_{1,0,0,0,0,0,1,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,0,0,0,0,2,0,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_4 - \\
& 2\phi_5) + a_{1,0,0,0,0,0,4,0,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 + 4\phi_4) + a_{1,0,0,0,0,1,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,0,0,0,0,1,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,0,0,2,0,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_3 - \\
& 2\phi_5) + a_{1,0,0,0,2,0,2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 + 2\phi_3 + 2\phi_4) + a_{1,0,0,0,4,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 + \\
& 4\phi_3) + a_{1,0,0,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_3) + a_{1,0,0,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - \\
& 2\phi_4) + a_{1,0,0,1,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(- \\
& \phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{1,0,1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,2,0,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_2) + a_{1,0,2,0,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 + 2\phi_2) + \\
& a_{1,0,2,0,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 + 2\phi_2) + a_{1,0,2,1,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1 + 2\phi_2) + \\
& a_{1,1,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(\phi_1 - 2\phi_3) + a_{1,1,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,1,2,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 + 2\phi_2) + \\
& a_{2,0,-1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(-2\phi_1 + \phi_2 + 2\phi_3) + a_{2,0,-1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(-2\phi_1 + \\
& \phi_2 + 2\phi_4) + a_{2,0,-1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 - \phi_2 + 2\phi_5) + \\
& a_{2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{2,0,1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 + \phi_2) + a_{2,0,1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 + \phi_2) + \\
& a_{2,0,1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 + \phi_2) + a_{2,0,1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(2\phi_1 + \phi_2) + \\
& a_{2,1,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(2\phi_1 + \phi_2) + a_{3,0,0,0,0,0,0,0,1}^r \rho_1^3 \rho_5^2 \cos(3\phi_1) + \\
& a_{3,0,0,0,0,0,0,1,0,0}^r \rho_1^3 \rho_4^2 \cos(3\phi_1) + a_{3,0,0,0,0,1,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(3\phi_1) + \\
& a_{3,0,0,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(3\phi_1) + a_{3,1,0,0,0,0,0,0,0,0}^r \rho_1^5 \cos(3\phi_1) + \\
& a_{4,0,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(4\phi_1 - \phi_2)
\end{aligned}$$

$$\begin{aligned}
H_{+-}^{(5)} = & b_{-1,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 - \phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,-1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 - \phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,-2,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(i(-\phi_1 - 2\phi_2 - 2\phi_3)) + b_{-1,0,-2,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(i(- \\
& \phi_1 - 2\phi_2 - 2\phi_4)) + b_{-1,0,-2,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \exp(i(-\phi_1 - 2\phi_2 + 2\phi_5)) + \\
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \exp(i(-\phi_1 - 2\phi_3 - 2\phi_5)) + b_{-1,0,0,0,-2,0,2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(i(- \\
& \phi_1 - 2\phi_3 + 2\phi_4)) + b_{-1,0,0,0,0,0,-2,0,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \exp(i(-\phi_1 - 2\phi_4 - 2\phi_5)) + \\
& b_{-1,0,0,0,0,0,0,0,2}^r \rho_1 \rho_5^4 \exp(-i\phi_1) + b_{-1,0,0,0,0,0,0,1,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \exp(-i\phi_1) + \\
& b_{-1,0,0,0,0,0,0,2,0,0}^r \rho_1 \rho_4^4 \exp(-i\phi_1) + b_{-1,0,0,0,0,0,2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \exp(i(-\phi_1 + 2\phi_4 + 2\phi_5)) + \\
& b_{-1,0,0,0,0,1,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \exp(-i\phi_1) + b_{-1,0,0,0,0,1,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(-i\phi_1) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,0,2,0,0,0,0}^r \rho_1 \rho_3^4 \exp(-i\phi_1) + b_{-1,0,0,0,2,0,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(i(-\phi_1 + 2\phi_3 - 2\phi_4)) + \\
& b_{-1,0,0,0,2,0,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \exp(i(-\phi_1 + 2\phi_3 + 2\phi_5)) + b_{-1,0,0,1,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \exp(- \\
& i\phi_1) + b_{-1,0,0,1,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(-i\phi_1) + b_{-1,0,0,1,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(-i\phi_1) + \\
& b_{-1,0,0,2,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \exp(-i\phi_1) + b_{-1,0,1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 + \phi_2 - \phi_3 + \\
& \phi_4 - \phi_5)) + b_{-1,0,1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,2,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \exp(i(-\phi_1 + 2\phi_2 - 2\phi_5)) + b_{-1,0,2,0,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(i(- \\
& \phi_1 + 2\phi_2 + 2\phi_4)) + b_{-1,0,2,0,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(i(-\phi_1 + 2\phi_2 + 2\phi_3)) + \\
& b_{-1,1,0,0,0,0,0,0,0,1}^r \rho_1^3 \rho_5^2 \exp(-i\phi_1) + b_{-1,1,0,0,0,0,0,1,0,0}^r \rho_1^3 \rho_4^2 \exp(-i\phi_1) + \\
& b_{-1,1,0,0,0,1,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(-i\phi_1) + b_{-1,1,0,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(-i\phi_1) + \\
& b_{-1,2,0,0,0,0,0,0,0,0}^r \rho_1^5 \exp(-i\phi_1) + b_{-2,0,-1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(i(-2\phi_1 - \phi_2 - 2\phi_3)) + \\
& b_{-2,0,-1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(i(-2\phi_1 - \phi_2 - 2\phi_4)) + b_{-2,0,-1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \exp(i(- \\
& 2\phi_1 - \phi_2 + 2\phi_5)) + b_{-2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-2,0,1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \exp(i(-2\phi_1 + \phi_2)) + b_{-2,0,1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(i(-2\phi_1 + \\
& \phi_2)) + b_{-2,0,1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(i(-2\phi_1 + \phi_2)) + b_{-2,0,1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_3^3 \exp(i(-2\phi_1 + \\
& \phi_2)) + b_{-2,1,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \exp(i(-2\phi_1 + \phi_2)) + b_{-3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(i(-3\phi_1 - 2\phi_3)) + \\
& b_{-3,0,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \exp(i(-3\phi_1 - 2\phi_4)) + b_{-3,0,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \exp(i(-3\phi_1 + 2\phi_5)) + \\
& b_{-3,0,2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(i(-3\phi_1 + 2\phi_2)) + b_{0,0,-1,0,-2,0,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \exp(i(-\phi_2 - 2\phi_3 - \\
& 2\phi_5)) + b_{0,0,-1,0,-2,0,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(i(-\phi_2 - 2\phi_3 + 2\phi_4)) + \\
& b_{0,0,-1,0,0,0,-2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \exp(i(-\phi_2 - 2\phi_4 - 2\phi_5)) + b_{0,0,-1,0,0,0,0,0,2}^r \rho_2 \rho_5^4 \exp(-i\phi_2) + \\
& b_{0,0,-1,0,0,0,0,1,0}^r \rho_2 \rho_4^2 \rho_5^2 \exp(-i\phi_2) + b_{0,0,-1,0,0,0,0,2,0}^r \rho_2 \rho_4^4 \exp(-i\phi_2) + \\
& b_{0,0,-1,0,0,0,2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \exp(i(-\phi_2 + 2\phi_4 + 2\phi_5)) + b_{0,0,-1,0,0,1,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \exp(- \\
& i\phi_2) + b_{0,0,-1,0,0,1,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(-i\phi_2) + b_{0,0,-1,0,0,2,0,0,0,0}^r \rho_2 \rho_3^4 \exp(-i\phi_2) + \\
& b_{0,0,-1,0,2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(i(-\phi_2 + 2\phi_3 - 2\phi_4)) + b_{0,0,-1,0,2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \exp(i(- \\
& \phi_2 + 2\phi_3 + 2\phi_5)) + b_{0,0,-1,1,0,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \exp(-i\phi_2) + b_{0,0,-1,1,0,0,0,1,0,0}^r \rho_2^3 \rho_4^2 \exp(-i\phi_2) + \\
& b_{0,0,-1,1,0,1,0,0,0,0}^r \rho_2^3 \rho_3^2 \exp(-i\phi_2) + b_{0,0,-1,2,0,0,0,0,0,0}^r \rho_2^5 \exp(-i\phi_2) + \\
& b_{0,0,-2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,-2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,-2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_2 + \phi_3 - \phi_4 + \phi_5)) + b_{0,0,-3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \exp(i(- \\
& 3\phi_2 - 2\phi_3)) + b_{0,0,-3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \exp(i(-3\phi_2 - 2\phi_4)) + b_{0,0,-3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \exp(i(- \\
& 3\phi_2 + 2\phi_5)) + b_{0,0,0,0,-1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_3 - \phi_4 - 3\phi_5)) + \\
& b_{0,0,0,0,-1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_3 - \phi_4 + 3\phi_5)) + b_{0,0,0,0,-1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_3 - \\
& 3\phi_4 + \phi_5)) + b_{0,0,0,0,-1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,0,0,-1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_3 + \phi_4 - \phi_5)) + b_{0,0,0,0,-1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_3 + \\
& 3\phi_4 + \phi_5)) + b_{0,0,0,0,-1,1,1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,0,0,-3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \exp(i(-3\phi_3 - \phi_4 + \phi_5)) + b_{0,0,0,0,1,0,-1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_3 - \\
& \phi_4 - \phi_5)) + b_{0,0,0,0,1,0,-1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,0,0,1,0,1,1,1,0}^r \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_3 + \phi_4 + \phi_5)) + b_{0,0,0,0,1,0,1,1,1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_3 + \phi_4 + \\
& \phi_5)) + b_{0,0,0,0,1,1,-1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_3 - \phi_4 - \phi_5)) + b_{0,0,0,0,1,1,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_3 + \\
& \phi_4 + \phi_5)) + b_{0,0,0,0,3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \exp(i(3\phi_3 - \phi_4 + \phi_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,1,-1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,0,1,1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,0,1,1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_3 + \phi_4 + \phi_5)) + b_{0,0,1,0,-2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(i(\phi_2 - \\
& 2\phi_3 - 2\phi_4)) + b_{0,0,1,0,-2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \exp(i(\phi_2 - 2\phi_3 + 2\phi_5)) + \\
& b_{0,0,1,0,-4,0,0,0,0,0}^r \rho_2 \rho_3^4 \exp(i(\phi_2 - 4\phi_3)) + b_{0,0,1,0,0,0,-2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \exp(i(\phi_2 - 2\phi_4 + 2\phi_5)) + \\
& b_{0,0,1,0,0,0,-4,0,0,0}^r \rho_2 \rho_4^4 \exp(i(\phi_2 - 4\phi_4)) + b_{0,0,1,0,0,0,0,0,-2,1}^r \rho_2 \rho_5^4 \exp(i(\phi_2 - 2\phi_5)) + \\
& b_{0,0,1,0,0,0,0,0,4,0}^r \rho_2 \rho_5^4 \exp(i(\phi_2 + 4\phi_5)) + b_{0,0,1,0,0,0,0,1,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \exp(i(\phi_2 - 2\phi_5)) + \\
& b_{0,0,1,0,0,0,2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \exp(i(\phi_2 + 2\phi_4)) + b_{0,0,1,0,0,0,2,1,0,0}^r \rho_2 \rho_4^4 \exp(i(\phi_2 + 2\phi_4)) + \\
& b_{0,0,1,0,0,1,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \exp(i(\phi_2 - 2\phi_5)) + b_{0,0,1,0,0,1,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(i(\phi_2 + 2\phi_4)) + \\
& b_{0,0,1,0,2,0,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \exp(i(\phi_2 + 2\phi_3)) + b_{0,0,1,0,2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(i(\phi_2 + 2\phi_3)) + \\
& b_{0,0,1,0,2,1,0,0,0,0}^r \rho_2 \rho_3^4 \exp(i(\phi_2 + 2\phi_3)) + b_{0,0,1,1,0,0,0,0,-2,0}^r \rho_2^3 \rho_5^2 \exp(i(\phi_2 - 2\phi_5)) + \\
& b_{0,0,1,1,0,0,2,0,0,0}^r \rho_2^3 \rho_4^2 \exp(i(\phi_2 + 2\phi_4)) + b_{0,0,1,1,2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \exp(i(\phi_2 + 2\phi_3)) + \\
& b_{0,0,2,0,-1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,2,0,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \exp(i(3\phi_2 - 2\phi_3)) + b_{0,0,3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \exp(i(3\phi_2 - 2\phi_4)) + \\
& b_{0,0,3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \exp(i(3\phi_2 + 2\phi_5)) + b_{0,0,5,0,0,0,0,0,0,0}^r \rho_2^5 \exp(5i\phi_2) + \\
& b_{0,1,-1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \exp(-i\phi_2) + b_{0,1,-1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(-i\phi_2) + \\
& b_{0,1,-1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(-i\phi_2) + b_{0,1,-1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \exp(-i\phi_2) + \\
& b_{0,1,0,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,1,0,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,1,0,0,1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_3 + \phi_4 + \phi_5)) + b_{0,1,1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \exp(i(\phi_2 - \\
& 2\phi_5)) + b_{0,1,1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(i(\phi_2 + 2\phi_4)) + b_{0,1,1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(i(\phi_2 + \\
& 2\phi_3)) + b_{0,2,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \exp(-i\phi_2) + b_{1,0,-1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_2 - \\
& \phi_3 + \phi_4 - \phi_5)) + b_{1,0,-1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,-1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,-2,0,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \exp(i(\phi_1 - 2\phi_2)) + b_{1,0,-2,0,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(i(\phi_1 - 2\phi_2)) + \\
& b_{1,0,-2,0,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(i(\phi_1 - 2\phi_2)) + b_{1,0,-2,1,0,0,0,0,0,0}^r \rho_1 \rho_4^4 \exp(i(\phi_1 - 2\phi_2)) + \\
& b_{1,0,0,0,-2,0,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(i(\phi_1 - 2\phi_3 - 2\phi_4)) + b_{1,0,0,0,-2,0,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \exp(i(\phi_1 - \\
& 2\phi_3 + 2\phi_5)) + b_{1,0,0,0,-4,0,0,0,0,0}^r \rho_1 \rho_3^4 \exp(i(\phi_1 - 4\phi_3)) + b_{1,0,0,0,0,0,-2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \exp(i(\phi_1 - \\
& 2\phi_4 + 2\phi_5)) + b_{1,0,0,0,0,0,-4,0,0,0}^r \rho_1 \rho_4^4 \exp(i(\phi_1 - 4\phi_4)) + b_{1,0,0,0,0,0,0,0,-2,1}^r \rho_1 \rho_5^4 \exp(i(\phi_1 - \\
& 2\phi_5)) + b_{1,0,0,0,0,0,0,4,0}^r \rho_1 \rho_5^4 \exp(i(\phi_1 + 4\phi_5)) + b_{1,0,0,0,0,0,0,1,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \exp(i(\phi_1 - 2\phi_5)) + \\
& b_{1,0,0,0,0,2,0,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \exp(i(\phi_1 + 2\phi_4)) + b_{1,0,0,0,0,2,1,0,0}^r \rho_1 \rho_4^4 \exp(i(\phi_1 + 2\phi_4)) + \\
& b_{1,0,0,0,0,1,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \exp(i(\phi_1 - 2\phi_5)) + b_{1,0,0,0,0,1,2,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(i(\phi_1 + 2\phi_4)) + \\
& b_{1,0,0,0,2,0,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \exp(i(\phi_1 + 2\phi_3)) + b_{1,0,0,0,2,0,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(i(\phi_1 + 2\phi_3)) + \\
& b_{1,0,0,0,2,1,0,0,0,0}^r \rho_1 \rho_3^4 \exp(i(\phi_1 + 2\phi_3)) + b_{1,0,0,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \exp(i(\phi_1 - 2\phi_5)) + \\
& b_{1,0,0,1,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(i(\phi_1 + 2\phi_4)) + b_{1,0,0,1,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(i(\phi_1 + 2\phi_3)) + \\
& b_{1,0,1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,1,0,1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,2,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(i(\phi_1 + 2\phi_2 - 2\phi_3)) + b_{1,0,2,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(i(\phi_1 + \\
& 2\phi_2 - 2\phi_4)) + b_{1,0,2,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \exp(i(\phi_1 + 2\phi_2 + 2\phi_5)) + \\
& b_{1,0,4,0,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \exp(i(\phi_1 + 4\phi_2)) + b_{1,1,-2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(i(\phi_1 - 2\phi_2)) + \\
& b_{1,1,0,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_5^2 \exp(i(\phi_1 - 2\phi_5)) + b_{1,1,0,0,0,0,2,0,0,0}^r \rho_1^3 \rho_4^2 \exp(i(\phi_1 + 2\phi_4)) +
\end{aligned}$$

$$\begin{aligned}
& b_{1,1,0,0,2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(i(\phi_1 + 2\phi_3)) + b_{2,0,-1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \exp(i(2\phi_1 - \phi_2 - \\
& 2\phi_5)) + b_{2,0,-1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(i(2\phi_1 - \phi_2 + 2\phi_4)) + \\
& b_{2,0,-1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(i(2\phi_1 - \phi_2 + 2\phi_3)) + b_{2,0,-3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \exp(i(2\phi_1 - \\
& 3\phi_2)) + b_{2,0,0,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{2,0,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{2,0,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(i(2\phi_1 + \phi_2 - 2\phi_3)) + b_{2,0,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(i(2\phi_1 + \\
& \phi_2 - 2\phi_4)) + b_{2,0,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \exp(i(2\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{2,0,3,0,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \exp(i(2\phi_1 + 3\phi_2)) + b_{3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(i(3\phi_1 - 2\phi_3)) + \\
& b_{3,0,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \exp(i(3\phi_1 - 2\phi_4)) + b_{3,0,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \exp(i(3\phi_1 + 2\phi_5)) + \\
& b_{3,0,2,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(i(3\phi_1 + 2\phi_2)) + b_{4,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \exp(i(4\phi_1 + \phi_2)) + \\
& b_{5,0,0,0,0,0,0,0,0}^r \rho_1^5 \exp(5i\phi_1)
\end{aligned}$$

$$\begin{aligned}
H_{-+}^{(5)} = & b_{-1,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 - \phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,-1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 - \phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,-2,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(-i(-\phi_1 - 2\phi_2 - 2\phi_3)) + b_{-1,0,-2,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(-i(- \\
& \phi_1 - 2\phi_2 - 2\phi_4)) + b_{-1,0,-2,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \exp(-i(-\phi_1 - 2\phi_2 + 2\phi_5)) + \\
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \exp(-i(-\phi_1 - 2\phi_3 - 2\phi_5)) + b_{-1,0,0,0,-2,0,2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(-i(- \\
& \phi_1 - 2\phi_3 + 2\phi_4)) + b_{-1,0,0,0,0,0,-2,0,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \exp(-i(-\phi_1 - 2\phi_4 - 2\phi_5)) + \\
& b_{-1,0,0,0,0,0,0,0,2}^r \rho_1 \rho_5^4 \exp(i\phi_1) + b_{-1,0,0,0,0,0,0,1,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \exp(i\phi_1) + \\
& b_{-1,0,0,0,0,0,0,2,0,0}^r \rho_1 \rho_4^4 \exp(i\phi_1) + b_{-1,0,0,0,0,0,2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \exp(-i(-\phi_1 + 2\phi_4 + 2\phi_5)) + \\
& b_{-1,0,0,0,0,1,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \exp(i\phi_1) + b_{-1,0,0,0,0,1,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(i\phi_1) + \\
& b_{-1,0,0,0,0,2,0,0,0,0}^r \rho_1 \rho_3^4 \exp(i\phi_1) + b_{-1,0,0,0,2,0,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(-i(-\phi_1 + 2\phi_3 - 2\phi_4)) + \\
& b_{-1,0,0,0,2,0,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \exp(-i(-\phi_1 + 2\phi_3 + 2\phi_5)) + \\
& b_{-1,0,0,1,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \exp(i\phi_1) + b_{-1,0,0,1,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(i\phi_1) + \\
& b_{-1,0,0,1,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(i\phi_1) + b_{-1,0,0,2,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \exp(i\phi_1) + \\
& b_{-1,0,1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,2,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \exp(-i(-\phi_1 + 2\phi_2 - 2\phi_5)) + b_{-1,0,2,0,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(-i(- \\
& \phi_1 + 2\phi_2 + 2\phi_4)) + b_{-1,0,2,0,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(-i(-\phi_1 + 2\phi_2 + 2\phi_3)) + \\
& b_{-1,1,0,0,0,0,0,0,0,1}^r \rho_1^3 \rho_5^2 \exp(i\phi_1) + b_{-1,1,0,0,0,0,0,1,0,0}^r \rho_1^3 \rho_4^2 \exp(i\phi_1) + \\
& b_{-1,1,0,0,0,1,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(i\phi_1) + b_{-1,1,0,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(i\phi_1) + \\
& b_{-1,2,0,0,0,0,0,0,0,0}^r \rho_1^5 \exp(i\phi_1) + b_{-2,0,-1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(-i(-2\phi_1 - \phi_2 - 2\phi_3)) + \\
& b_{-2,0,-1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(-i(-2\phi_1 - \phi_2 - 2\phi_4)) + b_{-2,0,-1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \exp(-i(- \\
& 2\phi_1 - \phi_2 + 2\phi_5)) + b_{-2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-2,0,1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \exp(-i(-2\phi_1 + \phi_2)) + b_{-2,0,1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(-i(-2\phi_1 + \\
& \phi_2)) + b_{-2,0,1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(-i(-2\phi_1 + \phi_2)) + b_{-2,0,1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \exp(-i(-2\phi_1 + \\
& \phi_2)) + b_{-2,1,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \exp(-i(-2\phi_1 + \phi_2)) + b_{-3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(-i(-3\phi_1 - \\
& 2\phi_3)) + b_{-3,0,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \exp(-i(-3\phi_1 - 2\phi_4)) + b_{-3,0,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \exp(-i(-3\phi_1 +
\end{aligned}$$

$$\begin{aligned}
& 2\phi_5)) + b_{-3,0,2,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(-i(-3\phi_1 + 2\phi_2)) + b_{0,0,-1,0,-2,0,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \exp(-i(-\phi_2 - 2\phi_3 - 2\phi_5)) + b_{0,0,-1,0,-2,0,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(-i(-\phi_2 - 2\phi_3 + 2\phi_4)) + \\
& b_{0,0,-1,0,0,0,-2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \exp(-i(-\phi_2 - 2\phi_4 - 2\phi_5)) + b_{0,0,-1,0,0,0,0,0,2}^r \rho_2 \rho_5^4 \exp(i\phi_2) + \\
& b_{0,0,-1,0,0,0,0,1,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \exp(i\phi_2) + b_{0,0,-1,0,0,0,0,2,0,0}^r \rho_2 \rho_4^4 \exp(i\phi_2) + \\
& b_{0,0,-1,0,0,0,2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \exp(-i(-\phi_2 + 2\phi_4 + 2\phi_5)) + \\
& b_{0,0,-1,0,0,1,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \exp(i\phi_2) + b_{0,0,-1,0,0,1,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(i\phi_2) + \\
& b_{0,0,-1,0,0,2,0,0,0,0}^r \rho_2 \rho_3^4 \exp(i\phi_2) + b_{0,0,-1,0,2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(-i(-\phi_2 + 2\phi_3 - 2\phi_4)) + \\
& b_{0,0,-1,0,2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \exp(-i(-\phi_2 + 2\phi_3 + 2\phi_5)) + b_{0,0,-1,1,0,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \exp(i\phi_2) + \\
& b_{0,0,-1,1,0,0,0,1,0,0}^r \rho_2^3 \rho_4^2 \exp(i\phi_2) + b_{0,0,-1,1,0,1,0,0,0,0}^r \rho_2^3 \rho_3^2 \exp(i\phi_2) + \\
& b_{0,0,-1,2,0,0,0,0,0,0}^r \rho_2^5 \exp(i\phi_2) + b_{0,0,-2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,-2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,-2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_2 + \phi_3 - \phi_4 + \phi_5)) + b_{0,0,-3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \exp(-i(-3\phi_2 - 2\phi_3)) + \\
& b_{0,0,-3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \exp(-i(-3\phi_2 - 2\phi_4)) + b_{0,0,-3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \exp(-i(-3\phi_2 + 2\phi_5)) + \\
& b_{0,0,0,0,-1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_3 - \phi_4 - 3\phi_5)) + \\
& b_{0,0,0,0,-1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_3 - \phi_4 + 3\phi_5)) + b_{0,0,0,0,-1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_3 - 3\phi_4 + \phi_5)) + \\
& b_{0,0,0,0,-1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,0,0,-1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_3 + \phi_4 - \phi_5)) + b_{0,0,0,0,-1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_3 + 3\phi_4 + \phi_5)) + \\
& b_{0,0,0,0,-1,1,1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,0,0,-3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \exp(-i(-3\phi_3 - \phi_4 + \phi_5)) + b_{0,0,0,0,1,0,-1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,0,0,1,0,-1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_3 - \phi_4 - \phi_5)) + b_{0,0,0,0,1,0,1,0,1,1}^r \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,0,0,1,0,1,1,1,0}^r \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_3 + \phi_4 + \phi_5)) + b_{0,0,0,0,1,1,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,0,0,3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \exp(-i(3\phi_3 - \phi_4 + \phi_5)) + b_{0,0,0,1,-1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,0,1,1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,0,1,1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_3 + \phi_4 + \phi_5)) + b_{0,0,1,0,-2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(-i(\phi_2 - 2\phi_3 - 2\phi_4)) + \\
& b_{0,0,1,0,-2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \exp(-i(\phi_2 - 2\phi_3 + 2\phi_5)) + \\
& b_{0,0,1,0,-4,0,0,0,0,0}^r \rho_2 \rho_3^4 \exp(-i(\phi_2 - 4\phi_3)) + b_{0,0,1,0,0,0,-2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \exp(-i(\phi_2 - 2\phi_4 + 2\phi_5)) + \\
& b_{0,0,1,0,0,0,-4,0,0,0}^r \rho_2 \rho_4^4 \exp(-i(\phi_2 - 4\phi_4)) + b_{0,0,1,0,0,0,0,0,-2,1}^r \rho_2 \rho_5^4 \exp(-i(\phi_2 - 2\phi_5)) + \\
& b_{0,0,1,0,0,0,0,0,4,0}^r \rho_2 \rho_5^4 \exp(-i(\phi_2 + 4\phi_5)) + b_{0,0,1,0,0,0,0,1,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \exp(-i(\phi_2 - 2\phi_5)) + \\
& b_{0,0,1,0,0,0,2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \exp(-i(\phi_2 + 2\phi_4)) + b_{0,0,1,0,0,0,2,1,0,0}^r \rho_2 \rho_4^4 \exp(-i(\phi_2 + 2\phi_4)) + \\
& b_{0,0,1,0,0,1,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \exp(-i(\phi_2 - 2\phi_5)) + b_{0,0,1,0,0,1,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(-i(\phi_2 + 2\phi_4)) + \\
& b_{0,0,1,0,2,0,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \exp(-i(\phi_2 + 2\phi_3)) + b_{0,0,1,0,2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \exp(-i(\phi_2 + 2\phi_3)) + \\
& b_{0,0,1,0,2,1,0,0,0,0}^r \rho_2 \rho_3^4 \exp(-i(\phi_2 + 2\phi_3)) + b_{0,0,1,1,0,0,0,0,-2,0}^r \rho_2^3 \rho_5^2 \exp(-i(\phi_2 - 2\phi_5)) + \\
& b_{0,0,1,1,0,0,2,0,0,0}^r \rho_2^3 \rho_4^2 \exp(-i(\phi_2 + 2\phi_4)) + b_{0,0,1,1,2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \exp(-i(\phi_2 + 2\phi_3)) + \\
& b_{0,0,2,0,-1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,2,0,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_2 + \phi_3 + \phi_4 - \phi_5)) + b_{0,0,3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \exp(-i(3\phi_2 - 2\phi_3)) + \\
& b_{0,0,3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \exp(-i(3\phi_2 - 2\phi_4)) + b_{0,0,3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \exp(-i(3\phi_2 + 2\phi_5)) + \\
& b_{0,0,5,0,0,0,0,0,0,0}^r \rho_2^5 \exp(-5i\phi_2) + b_{0,1,-1,0,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \exp(i\phi_2) + \\
& b_{0,1,-1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(i\phi_2) + b_{0,1,-1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(i\phi_2) + \\
& b_{0,1,-1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \exp(i\phi_2) + b_{0,1,0,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,1,0,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_3 - \phi_4 - \phi_5)) + b_{0,1,0,0,1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,1,1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \exp(-i(\phi_2 - 2\phi_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,1,1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(-i(\phi_2 + 2\phi_4)) + b_{0,1,1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(-i(\phi_2 + \\
& 2\phi_3)) + b_{0,2,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \exp(i\phi_2) + b_{1,0,-1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_2 - \\
& \phi_3 + \phi_4 - \phi_5)) + b_{1,0,-1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,-1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,-2,0,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \exp(-i(\phi_1 - 2\phi_2)) + b_{1,0,-2,0,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(-i(\phi_1 - \\
& 2\phi_2)) + b_{1,0,-2,0,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(-i(\phi_1 - 2\phi_2)) + b_{1,0,-2,1,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \exp(-i(\phi_1 - \\
& 2\phi_2)) + b_{1,0,0,0,-2,0,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(-i(\phi_1 - 2\phi_3 - 2\phi_4)) + \\
& b_{1,0,0,0,-2,0,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \exp(-i(\phi_1 - 2\phi_3 + 2\phi_5)) + b_{1,0,0,0,-4,0,0,0,0,0}^r \rho_1 \rho_3^4 \exp(-i(\phi_1 - \\
& 4\phi_3)) + b_{1,0,0,0,0,-2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \exp(-i(\phi_1 - 2\phi_4 + 2\phi_5)) + b_{1,0,0,0,0,-4,0,0,0}^r \rho_1 \rho_4^4 \exp(- \\
& i(\phi_1 - 4\phi_4)) + b_{1,0,0,0,0,0,0,-2,1}^r \rho_1 \rho_5^4 \exp(-i(\phi_1 - 2\phi_5)) + b_{1,0,0,0,0,0,0,4,0}^r \rho_1 \rho_5^4 \exp(-i(\phi_1 + \\
& 4\phi_5)) + b_{1,0,0,0,0,0,0,1,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \exp(-i(\phi_1 - 2\phi_5)) + b_{1,0,0,0,0,0,2,0,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \exp(- \\
& i(\phi_1 + 2\phi_4)) + b_{1,0,0,0,0,0,2,1,0,0}^r \rho_1 \rho_4^4 \exp(-i(\phi_1 + 2\phi_4)) + b_{1,0,0,0,0,1,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \exp(- \\
& i(\phi_1 - 2\phi_5)) + b_{1,0,0,0,0,1,2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(-i(\phi_1 + 2\phi_4)) + \\
& b_{1,0,0,0,2,0,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \exp(-i(\phi_1 + 2\phi_3)) + b_{1,0,0,0,2,0,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \exp(-i(\phi_1 + \\
& 2\phi_3)) + b_{1,0,0,0,2,1,0,0,0,0}^r \rho_1 \rho_3^4 \exp(-i(\phi_1 + 2\phi_3)) + b_{1,0,0,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \exp(-i(\phi_1 - \\
& 2\phi_5)) + b_{1,0,0,1,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(-i(\phi_1 + 2\phi_4)) + b_{1,0,0,1,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(- \\
& i(\phi_1 + 2\phi_3)) + b_{1,0,1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,1,0,1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,2,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \exp(-i(\phi_1 + 2\phi_2 - 2\phi_3)) + b_{1,0,2,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \exp(- \\
& i(\phi_1 + 2\phi_2 - 2\phi_4)) + b_{1,0,2,0,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \exp(-i(\phi_1 + 2\phi_2 + 2\phi_5)) + \\
& b_{1,0,4,0,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \exp(-i(\phi_1 + 4\phi_2)) + b_{1,1,-2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(-i(\phi_1 - 2\phi_2)) + \\
& b_{1,1,0,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_5^2 \exp(-i(\phi_1 - 2\phi_5)) + b_{1,1,0,0,0,0,2,0,0,0}^r \rho_1^3 \rho_4^2 \exp(-i(\phi_1 + 2\phi_4)) + \\
& b_{1,1,0,0,2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(-i(\phi_1 + 2\phi_3)) + b_{2,0,-1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \exp(-i(2\phi_1 - \phi_2 - \\
& 2\phi_5)) + b_{2,0,-1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(-i(2\phi_1 - \phi_2 + 2\phi_4)) + \\
& b_{2,0,-1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(-i(2\phi_1 - \phi_2 + 2\phi_3)) + b_{2,0,-3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \exp(-i(2\phi_1 - \\
& 3\phi_2)) + b_{2,0,0,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{2,0,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{2,0,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \exp(-i(2\phi_1 + \phi_2 - 2\phi_3)) + b_{2,0,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \exp(- \\
& i(2\phi_1 + \phi_2 - 2\phi_4)) + b_{2,0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \exp(-i(2\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{2,0,3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \exp(-i(2\phi_1 + 3\phi_2)) + b_{3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(-i(3\phi_1 - 2\phi_3)) + \\
& b_{3,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \exp(-i(3\phi_1 - 2\phi_4)) + b_{3,0,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \exp(-i(3\phi_1 + 2\phi_5)) + \\
& b_{3,0,2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(-i(3\phi_1 + 2\phi_2)) + b_{4,0,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \exp(-i(4\phi_1 + \phi_2)) + \\
& b_{5,0,0,0,0,0,0,0,0,0}^r \rho_1^5 \exp(-5i\phi_1)
\end{aligned}$$

**Cartesian e-coordinates:**

$$\begin{aligned}
H_{++}^{(5)} = & a_{0,0,0,0,1,0,-1,0,-3,0}^r (x_3(x_4x_5^3 - 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3) + y_3(3x_4x_5^2y_5 - x_4y_5^3 + x_5^3y_4 - \\
& 3x_5y_4y_5^2)) + a_{0,0,0,0,1,0,-1,0,3,0}^r (x_3(x_4x_5^3 - 3x_4x_5y_5^2 + 3x_5^2y_4y_5 - y_4y_5^3) + y_3(-3x_4x_5^2y_5 + \\
& x_4y_5^3 + x_5^3y_4 - 3x_5y_4y_5^2)) + a_{0,0,0,0,1,0,-3,0,1,0}^r (x_3(x_4^3x_5 + 3x_4^2y_4y_5 - 3x_4x_5y_4^2 - y_4^3y_5) + y_3(- \\
& x_4^3y_5 + 3x_4^2x_5y_4 + 3x_4y_4^2y_5 - x_5y_4^3)) + a_{0,0,0,0,1,0,1,0,-1,1}^r (x_5^2 + y_5^2)(x_3(x_4x_5 + y_4y_5) + \\
& y_3(x_4y_5 - x_5y_4)) + a_{0,0,0,0,1,0,1,1,-1,0}^r (x_4^2 + y_4^2)(x_3(x_4x_5 + y_4y_5) + y_3(x_4y_5 - x_5y_4)) + \\
& a_{0,0,0,0,1,0,3,0,1,0}^r (x_3(x_4^3x_5 - 3x_4^2y_4y_5 - 3x_4x_5y_4^2 + y_4^3y_5) + y_3(-x_4^3y_5 - 3x_4^2x_5y_4 + \\
& 3x_4y_4^2y_5 + x_5y_4^3)) + a_{0,0,0,0,1,1,1,0,-1,0}^r (x_3^2 + y_3^2)(x_3(x_4x_5 + y_4y_5) + y_3(x_4y_5 - x_5y_4)) +
\end{aligned}$$

$$\begin{aligned}
& a_{0,0,0,0,3,0,-1,0,-1,0}^r(x_3(-3x_4x_5y_3^2+3y_3^2y_4y_5)+x_4(x_3^3x_5-y_3^3y_5)+y_3(3x_3^2x_4y_5+3x_3^2x_5y_4)+ \\
& y_4(-x_3^3y_5-x_5y_3^3))+a_{0,0,0,0,3,0,1,0,1,0}^r(x_3(-3x_4x_5y_3^2+3y_3^2y_4y_5)+x_4(x_3^3x_5+y_3^3y_5)+y_3(- \\
& 3x_3^2x_4y_5-3x_3^2x_5y_4)+y_4(-x_3^3y_5+x_5y_3^3))+a_{0,0,0,1,1,0,1,0,-1,0}^r(x_2^2+y_2^2)(x_3(x_4x_5+y_4y_5)+ \\
& y_3(x_4y_5-x_5y_4))+a_{0,0,1,0,-2,0,0,0,0,1}^r(x_5^2+y_5^2)(x_2(x_3^2-y_3^2)+2x_3y_2y_3)+a_{0,0,1,0,-2,0,0,1,0,0}^r(x_4^2+ \\
& y_4^2)(x_2(x_3^2-y_3^2)+2x_3y_2y_3)+a_{0,0,1,0,-2,1,0,0,0,0}^r(x_3^2+y_3^2)(x_2(x_3^2-y_3^2)+2x_3y_2y_3)+ \\
& a_{0,0,1,0,0,0,-2,0,0,1}^r(x_5^2+y_5^2)(x_2(x_4^2-y_4^2)+2x_4y_2y_4)+a_{0,0,1,0,0,0,-2,1,0,0}^r(x_4^2+y_4^2)(x_2(x_4^2-y_4^2)+ \\
& 2x_4y_2y_4)+a_{0,0,1,0,0,0,0,0,-4,0}^r(x_2(x_5^4-6x_5^2y_5^2+y_5^4)+y_2(4x_5^3y_5-4x_5y_5^3))+a_{0,0,1,0,0,0,0,0,2,1}^r(x_5^2+ \\
& y_5^2)(x_2(x_5^2-y_5^2)-2x_5y_2y_5)+a_{0,0,1,0,0,0,0,1,2,0}^r(x_4^2+y_4^2)(x_2(x_5^2-y_5^2)-2x_5y_2y_5)+ \\
& a_{0,0,1,0,0,0,2,0,-2,0}^r(x_2(x_4^2x_5^2-x_4^2y_5^2+4x_4x_5y_4y_5-x_5^2y_4^2+y_4^2y_5^2)+y_2(2x_4^2x_5y_5- \\
& 2x_4x_5^2y_4+2x_4y_4y_5^2-2x_5y_4^2y_5))+a_{0,0,1,0,0,0,4,0,0,0}^r(x_2(x_4^4-6x_4^2y_4^2+y_4^4)+y_2(-4x_4^3y_4+ \\
& 4x_4y_4^3))+a_{0,0,1,0,0,1,-2,0,0,0}^r(x_3^2+y_3^2)(x_2(x_4^2-y_4^2)+2x_4y_2y_4)+a_{0,0,1,0,0,1,0,0,2,0}^r(x_3^2+ \\
& y_3^2)(x_2(x_5^2-y_5^2)-2x_5y_2y_5)+a_{0,0,1,0,2,0,0,0,-2,0}^r(x_2(x_3^2x_5^2-x_3^2y_5^2+4x_3x_5y_3y_5-x_5^2y_3^2+ \\
& y_3^2y_5^2)+y_2(2x_3^2x_5y_5-2x_3x_5^2y_3+2x_3y_3y_5^2-2x_5y_3^2y_5))+a_{0,0,1,0,2,0,2,0,0,0}^r(x_2(x_3^2x_4^2- \\
& x_3^2y_4^2-4x_3x_4y_3y_4-x_4^2y_3^2+y_3^2y_4^2)+y_2(-2x_3^2x_4y_4-2x_3x_4^2y_3+2x_3y_3y_4^2+ \\
& 2x_4y_3^2y_4))+a_{0,0,1,0,4,0,0,0,0,0}^r(x_2(x_3^4-6x_3^2y_3^2+y_3^4)+y_2(-4x_3^3y_3+4x_3y_3^3))+ \\
& a_{0,0,1,1,-2,0,0,0,0,0}^r(x_2^2+y_2^2)(x_2(x_3^2-y_3^2)+2x_3y_2y_3)+a_{0,0,1,1,0,0,-2,0,0,0}^r(x_2^2+y_2^2)(x_2(x_4^2-y_4^2)+ \\
& 2x_4y_2y_4)+a_{0,0,1,1,0,0,0,0,2,0}^r(x_2^2+y_2^2)(x_2(x_5^2-y_5^2)-2x_5y_2y_5)+a_{0,0,2,0,-1,0,-1,0,-1,0}^r(x_2(2x_3x_4y_2y_5+ \\
& 2x_3x_5y_2y_4+2x_4x_5y_2y_3-2y_2y_3y_4y_5)+x_3(x_2^2x_4x_5-x_2^2y_4y_5-x_4x_5y_2^2+y_2^2y_4y_5)+y_3(- \\
& x_2^2x_4y_5-x_2^2x_5y_4+x_4y_2^2y_5+x_5y_2^2y_4))+a_{0,0,2,0,-1,0,1,0,1,0}^r(x_2(-2x_3x_4y_2y_5-2x_3x_5y_2y_4+ \\
& 2x_4x_5y_2y_3-2y_2y_3y_4y_5)+x_3(x_2^2x_4x_5-x_2^2y_4y_5-x_4x_5y_2^2+y_2^2y_4y_5)+y_3(x_2^2x_4y_5+ \\
& x_2^2x_5y_4-x_4y_2^2y_5-x_5y_2^2y_4))+a_{0,0,2,0,1,0,-1,0,1,0}^r(x_2(-2x_3x_4y_2y_5+2x_3x_5y_2y_4-2x_4x_5y_2y_3- \\
& 2y_2y_3y_4y_5)+x_3(x_2^2x_4x_5+x_2^2y_4y_5-x_4x_5y_2^2-y_2^2y_4y_5)+y_3(-x_2^2x_4y_5+x_2^2x_5y_4+ \\
& x_4y_2^2y_5-x_5y_2^2y_4))+a_{0,0,3,0,0,0,0,0,0,1}^r(x_2(x_2^2-3y_2^2)(x_5^2+y_5^2)+a_{0,0,3,0,0,0,0,1,0,0}^r(x_2^2- \\
& 3y_2^2)(x_4^2+y_4^2)+a_{0,0,3,0,0,1,0,0,0,0}^r(x_2(x_2^2-3y_2^2)(x_3^2+y_3^2)+a_{0,0,3,1,0,0,0,0,0,0}^r(x_2(x_2^2-3y_2^2)(x_2^2+ \\
& y_2^2)+a_{0,1,0,0,1,0,1,0,-1,0}^r(x_1^2+y_1^2)(x_3(x_4x_5+y_4y_5)+y_3(x_4y_5-x_5y_4))+a_{0,1,1,0,-2,0,0,0,0,0}^r(x_1^2+ \\
& y_1^2)(x_2(x_3^2-y_3^2)+2x_3y_2y_3)+a_{0,1,1,0,0,0,-2,0,0,0}^r(x_1^2+y_1^2)(x_2(x_4^2-y_4^2)+2x_4y_2y_4)+ \\
& a_{0,1,1,0,0,0,0,0,2,0}^r(x_1^2+y_1^2)(x_2(x_5^2-y_5^2)-2x_5y_2y_5)+a_{0,1,3,0,0,0,0,0,0,0}^r(x_2(x_1^2+y_1^2)(x_2^2-3y_2^2)+ \\
& a_{1,0,-1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5+x_2x_3y_4y_5+x_2x_4y_3y_5-x_2x_5y_3y_4+x_3x_4y_2y_5-x_3x_5y_2y_4- \\
& x_4x_5y_2y_3-y_2y_3y_4y_5)+y_1(-x_2x_3x_4y_5+x_2x_3x_5y_4+x_2x_4x_5y_3+x_2y_3y_4y_5+x_3x_4x_5y_2+ \\
& x_3y_2y_4y_5+x_4y_2y_3y_5-x_5y_2y_3y_4))+a_{1,0,-1,0,1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5+x_2x_3y_4y_5+x_2x_4y_3y_5- \\
& x_2x_5y_3y_4-x_3x_4y_2y_5+x_3x_5y_2y_4+x_4x_5y_2y_3+y_2y_3y_4y_5)+y_1(x_2x_3x_4y_5-x_2x_3x_5y_4- \\
& x_2x_4x_5y_3-x_2y_3y_4y_5+x_3x_4x_5y_2+x_3y_2y_4y_5+x_4y_2y_3y_5-x_5y_2y_3y_4))+ \\
& a_{1,0,-2,0,0,0,0,0,-2,0}^r(x_1(x_2^2x_5^2-x_2^2y_5^2-4x_2x_5y_2y_5-x_5^2y_2^2+y_2^2y_5^2)+y_1(2x_2^2x_5y_5+ \\
& 2x_2x_5^2y_2-2x_2y_2y_5^2-2x_5y_2^2y_5))+a_{1,0,-2,0,0,0,2,0,0,0}^r(x_1(x_2^2x_4^2-x_2^2y_4^2+4x_2x_4y_2y_4- \\
& x_4^2y_2^2+y_2^2y_4^2)+y_1(-2x_2^2x_4y_4+2x_2x_4^2y_2-2x_2y_2y_4^2+2x_4y_2^2y_4))+ \\
& a_{1,0,-2,0,2,0,0,0,0,0}^r(x_1(x_2^2x_3^2-x_2^2y_3^2+4x_2x_3y_2y_3-x_3^2y_2^2+y_2^2y_3^2)+y_1(-2x_2^2x_3y_3+ \\
& 2x_2x_3^2y_2-2x_2y_2y_3^2+2x_3y_2^2y_3))+a_{1,0,-4,0,0,0,0,0,0,0}^r(x_1(x_2^4-6x_2^2y_2^2+y_2^4)+y_1(4x_2^3y_2- \\
& 4x_2y_2^3))+a_{1,0,0,0,-2,0,0,0,0,1}^r(x_5^2+y_5^2)(x_1(x_3^2-y_3^2)+2x_3y_1y_3)+a_{1,0,0,0,-2,0,0,1,0,0}^r(x_4^2+ \\
& y_4^2)(x_1(x_3^2-y_3^2)+2x_3y_1y_3)+a_{1,0,0,0,-2,1,0,0,0,0}^r(x_3^2+y_3^2)(x_1(x_3^2-y_3^2)+2x_3y_1y_3)+ \\
& a_{1,0,0,0,0,0,-2,0,0,1}^r(x_5^2+y_5^2)(x_1(x_4^2-y_4^2)+2x_4y_1y_4)+a_{1,0,0,0,0,0,-2,1,0,0}^r(x_4^2+y_4^2)(x_1(x_4^2-y_4^2)+ \\
& 2x_4y_1y_4)+a_{1,0,0,0,0,0,0,0,-4,0}^r(x_1(x_5^4-6x_5^2y_5^2+y_5^4)+y_1(4x_5^3y_5-4x_5y_5^3))+a_{1,0,0,0,0,0,0,0,2,1}^r(x_5^2+ \\
& y_5^2)(x_1(x_5^2-y_5^2)-2x_5y_1y_5)+a_{1,0,0,0,0,0,0,1,2,0}^r(x_4^2+y_4^2)(x_1(x_5^2-y_5^2)-2x_5y_1y_5)+
\end{aligned}$$

$$\begin{aligned}
& a_{1,0,0,0,0,0,2,0,-2,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_1(2x_4^2x_5y_5 - \\
& 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) + a_{1,0,0,0,0,0,4,0,0,0}^r(x_1(x_4^4 - 6x_4^2y_4^2 + y_4^4) + y_1(-4x_4^3y_4 + \\
& 4x_4y_4^3)) + a_{1,0,0,0,0,1,-2,0,0,0}^r(x_1^2 + y_3^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,0,0,0,1,0,0,2,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,0,0,2,0,0,0,-2,0}^r(x_1(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + \\
& y_3^2y_5^2) + y_1(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5)) + a_{1,0,0,0,2,0,2,0,0,0}^r(x_1(x_3^2x_4^2 - \\
& x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_1(-2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 + \\
& 2x_4y_3^2y_4)) + a_{1,0,0,0,4,0,0,0,0,0}^r(x_1(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_1(-4x_3^3y_3 + 4x_3y_3^3)) + \\
& a_{1,0,0,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_4^2 - y_4^2) + \\
& 2x_4y_1y_4) + a_{1,0,0,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,1,0,-1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4x_5 - \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + \\
& x_5y_2y_3y_4)) + a_{1,0,1,0,-1,0,1,0,1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) + a_{1,0,1,0,1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + \\
& x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + \\
& a_{1,0,2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,0,2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2^2 - y_2^2) - \\
& 2x_2y_1y_2) + a_{1,0,2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,0,2,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,1,0,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + \\
& a_{1,1,0,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,1,0,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1(x_5^2 - y_5^2) - \\
& 2x_5y_1y_5) + a_{1,1,2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{2,0,-1,0,-2,0,0,0,0,0}^r(x_1(4x_2x_3y_1y_3 + \\
& 2x_3^2y_1y_2 - 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(-2x_1^2x_3y_3 + \\
& 2x_3y_1^2y_3)) + a_{2,0,-1,0,0,0,-2,0,0,0}^r(x_1(4x_2x_4y_1y_4 + 2x_4^2y_1y_2 - 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - \\
& x_4^2y_1^2 + y_1^2y_4^2) + y_2(-2x_1^2x_4y_4 + 2x_4y_1^2y_4)) + a_{2,0,-1,0,0,0,0,0,2,0}^r(x_1(-4x_2x_5y_1y_5 + \\
& 2x_5^2y_1y_2 - 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2) + y_2(2x_1^2x_5y_5 - \\
& 2x_5y_1^2y_5)) + a_{2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 - x_1^2x_5y_4 + x_4y_1^2y_5 + \\
& x_5y_1^2y_4)) + a_{2,0,0,0,-1,0,1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - \\
& x_5y_1^2y_4)) + a_{2,0,0,0,1,0,-1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 + x_1^2x_5y_4 + x_4y_1^2y_5 - \\
& x_5y_1^2y_4)) + a_{2,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(- \\
& 2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + \\
& a_{2,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(-2x_1y_1y_2 + \\
& x_2(x_1^2 - y_1^2)) + a_{3,0,0,0,0,0,0,0,0,1}^r(x_1^2 - 3y_1^2)(x_5^2 + y_5^2) + a_{3,0,0,0,0,0,0,1,0,0}^r(x_1^2 - 3y_1^2)(x_4^2 + \\
& y_4^2) + a_{3,0,0,0,0,1,0,0,0,0}^r(x_1^2 - 3y_1^2)(x_3^2 + y_3^2) + a_{3,0,0,1,0,0,0,0,0,0}^r(x_1^2 - 3y_1^2)(x_2^2 + y_2^2) + \\
& a_{3,1,0,0,0,0,0,0,0,0}^r(x_1^2 - 3y_1^2)(x_1^2 + y_1^2) + a_{4,0,-1,0,0,0,0,0,0,0}^r(4x_1^3y_1y_2 - 4x_1y_1^3y_2 + x_2(x_1^4 - \\
& 6x_1^2y_1^2 + y_1^4))
\end{aligned}$$

$$\begin{aligned}
H_{--}^{(5)} = & a_{0,0,0,0,1,0,-1,0,-3,0}^r(x_3(x_4x_5^3 - 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3) + y_3(3x_4x_5^2y_5 - x_4y_5^3 + x_5^3y_4 - \\
& 3x_5y_4y_5^2)) + a_{0,0,0,0,1,0,-1,0,3,0}^r(x_3(x_4x_5^3 - 3x_4x_5y_5^2 + 3x_5^2y_4y_5 - y_4y_5^3) + y_3(-3x_4x_5^2y_5 + \\
& x_4y_5^3 + x_5^3y_4 - 3x_5y_4y_5^2)) + a_{0,0,0,0,1,0,-3,0,1,0}^r(x_3(x_4^3x_5 + 3x_4^2y_4y_5 - 3x_4x_5y_4^2 - y_4^3y_5) + y_3(-
\end{aligned}$$



$$\begin{aligned}
& x_4^3 y_5 + 3x_4^2 x_5 y_4 + 3x_4 y_4^2 y_5 - x_5 y_4^3)) + a_{0,0,0,0,1,0,1,0,-1,1}^r (x_5^2 + y_5^2)(x_3(x_4 x_5 + y_4 y_5) + \\
& y_3(x_4 y_5 - x_5 y_4)) + a_{0,0,0,0,1,0,1,1,-1,0}^r (x_4^2 + y_4^2)(x_3(x_4 x_5 + y_4 y_5) + y_3(x_4 y_5 - x_5 y_4)) + \\
& a_{0,0,0,0,1,0,3,0,1,0}^r (x_3(x_4^3 x_5 - 3x_4^2 y_4 y_5 - 3x_4 x_5 y_4^2 + y_4^3 y_5) + y_3(-x_4^3 y_5 - 3x_4^2 x_5 y_4 + \\
& 3x_4 y_4^2 y_5 + x_5 y_4^3)) + a_{0,0,0,0,1,1,1,0,-1,0}^r (x_3^2 + y_3^2)(x_3(x_4 x_5 + y_4 y_5) + y_3(x_4 y_5 - x_5 y_4)) + \\
& a_{0,0,0,0,3,0,-1,0,-1,0}^r (x_3(-3x_4 x_5 y_3^2 + 3y_3^2 y_4 y_5) + x_4(x_3^3 x_5 - y_3^3 y_5) + y_3(3x_3^2 x_4 y_5 + 3x_3^2 x_5 y_4) + \\
& y_4(-x_3^3 y_5 - x_5 y_3^3)) + a_{0,0,0,0,3,0,1,0,1,0}^r (x_3(-3x_4 x_5 y_3^2 + 3y_3^2 y_4 y_5) + x_4(x_3^3 x_5 + y_3^3 y_5) + y_3(- \\
& 3x_3^2 x_4 y_5 - 3x_3^2 x_5 y_4) + y_4(-x_3^3 y_5 + x_5 y_3^3)) + a_{0,0,0,1,1,0,1,0,-1,0}^r (x_2^2 + y_2^2)(x_3(x_4 x_5 + y_4 y_5) + \\
& y_3(x_4 y_5 - x_5 y_4)) + a_{0,0,1,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + a_{0,0,1,0,-2,0,0,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + a_{0,0,1,0,-2,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2)(x_2(x_4^2 - y_4^2) + 2x_4 y_2 y_4) + a_{0,0,1,0,0,0,-2,1,0,0}^r (x_4^2 + y_4^2)(x_2(x_4^2 - y_4^2) + \\
& 2x_4 y_2 y_4) + a_{0,0,1,0,0,0,0,-4,0}^r (x_2(x_5^4 - 6x_5^2 y_5^2 + y_5^4) + y_2(4x_5^3 y_5 - 4x_5 y_5^3)) + a_{0,0,1,0,0,0,0,2,1}^r (x_5^2 + \\
& y_5^2)(x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + a_{0,0,1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2)(x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + \\
& a_{0,0,1,0,0,0,2,0,-2,0}^r (x_2(x_4^2 x_5^2 - x_4^2 y_5^2 + 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2) + y_2(2x_4^2 x_5 y_5 - \\
& 2x_4 x_5^2 y_4 + 2x_4 y_4 y_5^2 - 2x_5 y_4^2 y_5)) + a_{0,0,1,0,0,0,4,0,0,0}^r (x_2(x_4^4 - 6x_4^2 y_4^2 + y_4^4) + y_2(-4x_4^3 y_4 + \\
& 4x_4 y_4^3)) + a_{0,0,1,0,0,1,-2,0,0,0}^r (x_3^2 + y_3^2)(x_2(x_4^2 - y_4^2) + 2x_4 y_2 y_4) + a_{0,0,1,0,0,1,0,0,2,0}^r (x_3^2 + \\
& y_3^2)(x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + a_{0,0,1,0,2,0,0,0,-2,0}^r (x_2(x_3^2 x_5^2 - x_3^2 y_5^2 + 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + \\
& y_3^2 y_5^2) + y_2(2x_3^2 x_5 y_5 - 2x_3 x_5^2 y_3 + 2x_3 y_3 y_5^2 - 2x_5 y_3^2 y_5)) + a_{0,0,1,0,2,0,2,0,0,0}^r (x_2(x_3^2 x_4^2 - \\
& x_3^2 y_4^2 - 4x_3 x_4 y_3 y_4 - x_4^2 y_3^2 + y_3^2 y_4^2) + y_2(-2x_3^2 x_4 y_4 - 2x_3 x_4^2 y_3 + 2x_3 y_3 y_4^2 + \\
& 2x_4 y_3^2 y_4)) + a_{0,0,1,0,4,0,0,0,0,0}^r (x_2(x_3^4 - 6x_3^2 y_3^2 + y_3^4) + y_2(-4x_3^3 y_3 + 4x_3 y_3^3)) + \\
& a_{0,0,1,1,-2,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + a_{0,0,1,1,0,0,-2,0,0,0}^r (x_2^2 + y_2^2)(x_2(x_4^2 - y_4^2) + \\
& 2x_4 y_2 y_4) + a_{0,0,1,1,0,0,0,0,2,0}^r (x_2^2 + y_2^2)(x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + a_{0,0,2,0,-1,0,-1,0,-1,0}^r (x_2(2x_3 x_4 y_2 y_5 + \\
& 2x_3 x_5 y_2 y_4 + 2x_4 x_5 y_2 y_3 - 2y_2 y_3 y_4 y_5) + x_3(x_2^2 x_4 x_5 - x_2^2 y_4 y_5 - x_4 x_5 y_2^2 + y_2^2 y_4 y_5) + y_3(- \\
& x_2^2 x_4 y_5 - x_2^2 x_5 y_4 + x_4 y_2^2 y_5 + x_5 y_2^2 y_4)) + a_{0,0,2,0,-1,0,1,0,1,0}^r (x_2(-2x_3 x_4 y_2 y_5 - 2x_3 x_5 y_2 y_4 + \\
& 2x_4 x_5 y_2 y_3 - 2y_2 y_3 y_4 y_5) + x_3(x_2^2 x_4 x_5 - x_2^2 y_4 y_5 - x_4 x_5 y_2^2 + y_2^2 y_4 y_5) + y_3(x_2^2 x_4 y_5 + \\
& x_2^2 x_5 y_4 - x_4 y_2^2 y_5 - x_5 y_2^2 y_4)) + a_{0,0,2,0,1,0,-1,0,1,0}^r (x_2(-2x_3 x_4 y_2 y_5 + 2x_3 x_5 y_2 y_4 - 2x_4 x_5 y_2 y_3 - \\
& 2y_2 y_3 y_4 y_5) + x_3(x_2^2 x_4 x_5 + x_2^2 y_4 y_5 - x_4 x_5 y_2^2 - y_2^2 y_4 y_5) + y_3(-x_2^2 x_4 y_5 + x_2^2 x_5 y_4 + \\
& x_4 y_2^2 y_5 - x_5 y_2^2 y_4)) + a_{0,0,3,0,0,0,0,0,0,1}^r x_2(x_2^2 - 3y_2^2)(x_5^2 + y_5^2) + a_{0,0,3,0,0,0,0,1,0,0}^r x_2(x_2^2 - \\
& 3y_2^2)(x_4^2 + y_4^2) + a_{0,0,3,0,0,1,0,0,0,0}^r x_2(x_2^2 - 3y_2^2)(x_3^2 + y_3^2) + a_{0,0,3,1,0,0,0,0,0,0}^r x_2(x_2^2 - 3y_2^2)(x_2^2 + \\
& y_2^2) + a_{0,1,0,0,1,0,1,0,-1,0}^r (x_1^2 + y_1^2)(x_3(x_4 x_5 + y_4 y_5) + y_3(x_4 y_5 - x_5 y_4)) + a_{0,1,1,0,-2,0,0,0,0,0}^r (x_1^2 + \\
& y_1^2)(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + a_{0,1,1,0,0,0,-2,0,0,0}^r (x_1^2 + y_1^2)(x_2(x_4^2 - y_4^2) + 2x_4 y_2 y_4) + \\
& a_{0,1,1,0,0,0,0,0,2,0}^r (x_1^2 + y_1^2)(x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + a_{0,1,3,0,0,0,0,0,0,0}^r x_2(x_1^2 + y_1^2)(x_2^2 - 3y_2^2) + \\
& a_{1,0,-1,0,-1,0,-1,0,1,0}^r (x_1(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - \\
& x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + y_1(-x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4)) + a_{1,0,-1,0,1,0,1,0,-1,0}^r (x_1(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - \\
& x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1(x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 - \\
& x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4)) + \\
& a_{1,0,-2,0,0,0,0,0,-2,0}^r (x_1(x_2^2 x_5^2 - x_2^2 y_5^2 - 4x_2 x_5 y_2 y_5 - x_5^2 y_2^2 + y_2^2 y_5^2) + y_1(2x_2^2 x_5 y_5 + \\
& 2x_2 x_5^2 y_2 - 2x_2 y_2 y_5^2 - 2x_5 y_2^2 y_5)) + a_{1,0,-2,0,0,0,2,0,0,0}^r (x_1(x_2^2 x_4^2 - x_2^2 y_4^2 + 4x_2 x_4 y_2 y_4 - \\
& x_4^2 y_2^2 + y_2^2 y_4^2) + y_1(-2x_2^2 x_4 y_4 + 2x_2 x_4^2 y_2 - 2x_2 y_2 y_4^2 + 2x_4 y_2^2 y_4)) + \\
& a_{1,0,-2,0,2,0,0,0,0,0}^r (x_1(x_2^2 x_3^2 - x_2^2 y_3^2 + 4x_2 x_3 y_2 y_3 - x_3^2 y_2^2 + y_2^2 y_3^2) + y_1(-2x_2^2 x_3 y_3 + \\
& 2x_2 x_3^2 y_2 - 2x_2 y_2 y_3^2 + 2x_3 y_2^2 y_3)) + a_{1,0,-4,0,0,0,0,0,0,0}^r (x_1(x_2^4 - 6x_2^2 y_2^2 + y_2^4) + y_1(4x_2^3 y_2 - \\
& 4x_2 y_2^3)) + a_{1,0,0,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1(x_3^2 - y_3^2) + 2x_3 y_1 y_3) + a_{1,0,0,0,-2,0,0,1,0,0}^r (x_4^2 +
\end{aligned}$$

$$\begin{aligned}
& y_4^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,0,-2,1,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + \\
& a_{1,0,0,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,0,0,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_4^2 - y_4^2) + \\
& 2x_4y_1y_4) + a_{1,0,0,0,0,0,0,-4,0}^r(x_1(x_5^4 - 6x_5^2y_5^2 + y_5^4) + y_1(4x_5^3y_5 - 4x_5y_5^3)) + a_{1,0,0,0,0,0,0,2,1}^r(x_5^2 + \\
& y_5^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + \\
& a_{1,0,0,0,0,0,2,0,-2,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_1(2x_4^2x_5y_5 - \\
& 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) + a_{1,0,0,0,0,0,4,0,0,0}^r(x_1(x_4^4 - 6x_4^2y_4^2 + y_4^4) + y_1(-4x_4^3y_4 + \\
& 4x_4y_4^3)) + a_{1,0,0,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,0,0,0,0,1,0,0,2,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,0,0,2,0,0,0,-2,0}^r(x_1(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + \\
& y_3^2y_5^2) + y_1(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5)) + a_{1,0,0,0,2,0,2,0,0,0}^r(x_1(x_3^2x_4^2 - \\
& x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_1(-2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 + \\
& 2x_4y_3^2y_4)) + a_{1,0,0,0,4,0,0,0,0,0}^r(x_1(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_1(-4x_3^3y_3 + 4x_3y_3^3)) + \\
& a_{1,0,0,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_4^2 - y_4^2) + \\
& 2x_4y_1y_4) + a_{1,0,0,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,1,0,-1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4x_5 - \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + \\
& x_5y_2y_3y_4)) + a_{1,0,1,0,-1,0,1,0,1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) + a_{1,0,1,0,1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + \\
& x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + \\
& a_{1,0,2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,0,2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2^2 - y_2^2) - \\
& 2x_2y_1y_2) + a_{1,0,2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,0,2,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,1,0,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + \\
& a_{1,1,0,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,1,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1(x_5^2 - y_5^2) - \\
& 2x_5y_1y_5) + a_{1,1,2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{2,0,-1,0,-2,0,0,0,0,0}^r(x_1(4x_2x_3y_1y_3 + \\
& 2x_3^2y_1y_2 - 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(-2x_1^2x_3y_3 + \\
& 2x_3y_1^2y_3)) + a_{2,0,-1,0,0,0,-2,0,0,0}^r(x_1(4x_2x_4y_1y_4 + 2x_4^2y_1y_2 - 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - \\
& x_4^2y_1^2 + y_1^2y_4^2) + y_2(-2x_1^2x_4y_4 + 2x_4y_1^2y_4)) + a_{2,0,-1,0,0,0,0,0,2,0}^r(x_1(-4x_2x_5y_1y_5 + \\
& 2x_5^2y_1y_2 - 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2) + y_2(2x_1^2x_5y_5 - \\
& 2x_5y_1^2y_5)) + a_{2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 - x_1^2x_5y_4 + x_4y_1^2y_5 + \\
& x_5y_1^2y_4)) + a_{2,0,0,0,-1,0,1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - \\
& x_5y_1^2y_4)) + a_{2,0,0,0,1,0,-1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 + x_1^2x_5y_4 + x_4y_1^2y_5 - \\
& x_5y_1^2y_4)) + a_{2,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(- \\
& 2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + \\
& a_{2,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(-2x_1y_1y_2 + \\
& x_2(x_1^2 - y_1^2)) + a_{3,0,0,0,0,0,0,0,0,1}^r(x_1(x_1^2 - 3y_1^2)(x_5^2 + y_5^2) + a_{3,0,0,0,0,0,0,1,0,0}^r(x_1(x_1^2 - 3y_1^2)(x_4^2 + \\
& y_4^2) + a_{3,0,0,0,0,1,0,0,0,0}^r(x_1(x_1^2 - 3y_1^2)(x_3^2 + y_3^2) + a_{3,0,0,1,0,0,0,0,0,0}^r(x_1(x_1^2 - 3y_1^2)(x_2^2 + y_2^2) + \\
& a_{3,1,0,0,0,0,0,0,0,0}^r(x_1(x_1^2 - 3y_1^2)(x_1^2 + y_1^2) + a_{4,0,-1,0,0,0,0,0,0,0}^r(4x_1^3y_1y_2 - 4x_1y_1^3y_2 + x_2(x_1^4 - \\
& 6x_1^2y_1^2 + y_1^4))
\end{aligned}$$

$$\begin{aligned}
H_{+-}^{(5)} = & b_{-1,0,-1,0,-1,0,-1,0}^r (x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 - \\
& x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4)) - ib_{-1,0,-1,0,-1,0,-1,0}^r (x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 - \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5)) + \\
& b_{-1,0,-1,0,-1,0,1,0,1,0}^r (x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 - \\
& x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) + ib_{-1,0,-1,0,-1,0,1,0,1,0}^r (x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) + \\
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r (x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 + \\
& x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 - \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + ib_{-1,0,-1,0,1,0,-1,0,1,0}^r (x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 - \\
& x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5)) - \\
& ib_{-1,0,-2,0,-2,0,0,0,0,0}^r (x_1(2x_2^2x_3y_3 + 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - 2x_3y_2^2y_3) + y_1(x_2^2x_3^2 - x_2^2y_3^2 - \\
& 4x_2x_3y_2y_3 - x_3^2y_2^2 + y_2^2y_3^2)) + b_{-1,0,-2,0,-2,0,0,0,0,0}^r (x_1(x_2^2x_3^2 - x_2^2y_3^2 - 4x_2x_3y_2y_3 - \\
& x_3^2y_2^2 + y_2^2y_3^2) + y_1(-2x_2^2x_3y_3 - 2x_2x_3^2y_2 + 2x_2y_2y_3^2 + 2x_3y_2^2y_3)) - \\
& ib_{-1,0,-2,0,0,0,-2,0,0,0}^r (x_1(2x_2^2x_4y_4 + 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - 2x_4y_2^2y_4) + y_1(x_2^2x_4^2 - x_2^2y_4^2 - \\
& 4x_2x_4y_2y_4 - x_4^2y_2^2 + y_2^2y_4^2)) + b_{-1,0,-2,0,0,0,-2,0,0,0}^r (x_1(x_2^2x_4^2 - x_2^2y_4^2 - 4x_2x_4y_2y_4 - \\
& x_4^2y_2^2 + y_2^2y_4^2) + y_1(-2x_2^2x_4y_4 - 2x_2x_4^2y_2 + 2x_2y_2y_4^2 + 2x_4y_2^2y_4)) + \\
& ib_{-1,0,-2,0,0,0,0,0,2,0}^r (x_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - 2x_5y_2^2y_5) + y_1(-x_2^2x_5^2 + x_2^2y_5^2 - \\
& 4x_2x_5y_2y_5 + x_5^2y_2^2 - y_2^2y_5^2)) + b_{-1,0,-2,0,0,0,0,0,2,0}^r (x_1(x_2^2x_5^2 - x_2^2y_5^2 + 4x_2x_5y_2y_5 - \\
& x_5^2y_2^2 + y_2^2y_5^2) + y_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - 2x_5y_2^2y_5)) - \\
& ib_{-1,0,0,0,-2,0,0,0,-2,0}^r (x_1(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_1(x_3^2x_5^2 - x_3^2y_5^2 - \\
& 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) + b_{-1,0,0,0,-2,0,0,0,-2,0}^r (x_1(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - \\
& x_5^2y_3^2 + y_3^2y_5^2) + y_1(-2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 + 2x_5y_3^2y_5)) + \\
& ib_{-1,0,0,0,-2,0,2,0,0,0}^r (x_1(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - 2x_4y_3^2y_4) + y_1(-x_3^2x_4^2 + x_3^2y_4^2 - \\
& 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) + b_{-1,0,0,0,-2,0,2,0,0,0}^r (x_1(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - \\
& x_4^2y_3^2 + y_3^2y_4^2) + y_1(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) - \\
& ib_{-1,0,0,0,0,0,-2,0,-2,0}^r (x_1(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_1(x_4^2x_5^2 - x_4^2y_5^2 - \\
& 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + b_{-1,0,0,0,0,0,-2,0,-2,0}^r (x_1(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - \\
& x_5^2y_4^2 + y_4^2y_5^2) + y_1(-2x_4^2x_5y_5 - 2x_4x_5^2y_4 + 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) + \\
& b_{-1,0,0,0,0,0,0,0,2}^r x_1(x_5^2 + y_5^2)^2 - ib_{-1,0,0,0,0,0,0,0,2}^r y_1(x_5^2 + y_5^2)^2 + b_{-1,0,0,0,0,0,0,1,0,1}^r x_1(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) - ib_{-1,0,0,0,0,0,0,1,0,1}^r y_1(x_4^2 + y_4^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,0,2,0,0}^r x_1(x_4^2 + y_4^2)^2 - \\
& ib_{-1,0,0,0,0,0,0,2,0,0}^r y_1(x_4^2 + y_4^2)^2 + ib_{-1,0,0,0,0,0,2,0,2,0}^r (x_1(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - \\
& 2x_5y_4^2y_5) + y_1(-x_4^2x_5^2 + x_4^2y_5^2 + 4x_4x_5y_4y_5 + x_5^2y_4^2 - y_4^2y_5^2)) + \\
& b_{-1,0,0,0,0,0,2,0,2,0}^r (x_1(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_1(2x_4^2x_5y_5 + \\
& 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) + b_{-1,0,0,0,0,1,0,0,0,1}^r x_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) - \\
& ib_{-1,0,0,0,0,1,0,0,0,1}^r y_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,1,0,1,0,0}^r x_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) - \\
& ib_{-1,0,0,0,0,1,0,1,0,0}^r y_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{-1,0,0,0,0,2,0,0,0,0}^r x_1(x_3^2 + y_3^2)^2 - \\
& ib_{-1,0,0,0,0,2,0,0,0,0}^r y_1(x_3^2 + y_3^2)^2 - ib_{-1,0,0,0,2,0,-2,0,0,0}^r (x_1(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 -
\end{aligned}$$

$$\begin{aligned}
& 2x_4y_3^2y_4) + y_1(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2)) + \\
& b_{-1,0,0,0,2,0,-2,0,0,0}^r(x_1(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_1(-2x_3^2x_4y_4 + \\
& 2x_3x_4^2y_3 - 2x_3y_3y_4^2 + 2x_4y_3^2y_4)) + ib_{-1,0,0,0,2,0,0,0,2,0}^r(x_1(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - \\
& 2x_5y_3^2y_5) + y_1(-x_3^2x_5^2 + x_3^2y_5^2 + 4x_3x_5y_3y_5 + x_5^2y_3^2 - y_3^2y_5^2)) + \\
& b_{-1,0,0,0,2,0,0,0,2,0}^r(x_1(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_1(2x_3^2x_5y_5 + \\
& 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - 2x_5y_3^2y_5)) + b_{-1,0,0,1,0,0,0,0,1}^r(x_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) - \\
& ib_{-1,0,0,1,0,0,0,0,1}^r(x_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{-1,0,0,1,0,0,0,1,0,0}^r(x_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) - \\
& ib_{-1,0,0,1,0,0,0,1,0,0}^r(x_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{-1,0,0,1,0,1,0,0,0,0}^r(x_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) - \\
& ib_{-1,0,0,1,0,1,0,0,0,0}^r(x_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{-1,0,0,2,0,0,0,0,0,0}^r(x_1(x_2^2 + y_2^2)^2 - \\
& ib_{-1,0,0,2,0,0,0,0,0,0}^r(x_1(x_2^2 + y_2^2)^2 + b_{-1,0,1,0,-1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) - \\
& ib_{-1,0,1,0,-1,0,1,0,-1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 + \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) + b_{-1,0,1,0,1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4)) - \\
& ib_{-1,0,1,0,1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5)) + b_{-1,0,1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) + \\
& ib_{-1,0,1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) - ib_{-1,0,2,0,0,0,0,0,-2,0}^r(x_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - \\
& 2x_5y_2^2y_5) + y_1(x_2^2x_5^2 - x_2^2y_5^2 + 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2)) + \\
& b_{-1,0,2,0,0,0,0,0,-2,0}^r(x_1(x_2^2x_5^2 - x_2^2y_5^2 + 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2) + y_1(-2x_2^2x_5y_5 + \\
& 2x_2x_5^2y_2 - 2x_2y_2y_5^2 + 2x_5y_2^2y_5)) + ib_{-1,0,2,0,0,0,2,0,0,0}^r(x_1(2x_2^2x_4y_4 + 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - \\
& 2x_4y_2^2y_4) + y_1(-x_2^2x_4^2 + x_2^2y_4^2 + 4x_2x_4y_2y_4 + x_4^2y_2^2 - y_2^2y_4^2)) + \\
& b_{-1,0,2,0,0,0,2,0,0,0}^r(x_1(x_2^2x_4^2 - x_2^2y_4^2 - 4x_2x_4y_2y_4 - x_4^2y_2^2 + y_2^2y_4^2) + y_1(2x_2^2x_4y_4 + \\
& 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - 2x_4y_2^2y_4)) + ib_{-1,0,2,0,2,0,0,0,0,0}^r(x_1(2x_2^2x_3y_3 + 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - \\
& 2x_3y_2^2y_3) + y_1(-x_2^2x_3^2 + x_2^2y_3^2 + 4x_2x_3y_2y_3 + x_3^2y_2^2 - y_2^2y_3^2)) + \\
& b_{-1,0,2,0,2,0,0,0,0,0}^r(x_1(x_2^2x_3^2 - x_2^2y_3^2 - 4x_2x_3y_2y_3 - x_3^2y_2^2 + y_2^2y_3^2) + y_1(2x_2^2x_3y_3 + \\
& 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - 2x_3y_2^2y_3)) + b_{-1,1,0,0,0,0,0,0,1}^r(x_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) - \\
& ib_{-1,1,0,0,0,0,0,0,1}^r(x_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) + b_{-1,1,0,0,0,0,1,0,0}^r(x_1(x_1^2 + y_1^2)(x_4^2 + y_4^2) - \\
& ib_{-1,1,0,0,0,0,1,0,0}^r(x_1(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{-1,1,0,0,0,1,0,0,0}^r(x_1(x_1^2 + y_1^2)(x_3^2 + y_3^2) - \\
& ib_{-1,1,0,0,0,1,0,0,0}^r(x_1(x_1^2 + y_1^2)(x_3^2 + y_3^2) + b_{-1,1,0,1,0,0,0,0,0}^r(x_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) - \\
& ib_{-1,1,0,1,0,0,0,0,0}^r(x_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{-1,2,0,0,0,0,0,0,0}^r(x_1(x_1^2 + y_1^2)^2 - \\
& ib_{-1,2,0,0,0,0,0,0,0}^r(x_1(x_1^2 + y_1^2)^2 - ib_{-2,0,-1,0,-2,0,0,0,0}^r(x_1(2x_2x_3^2y_1 - 2x_2y_1y_3^2 - 4x_3y_1y_2y_3) + \\
& x_2(2x_1^2x_3y_3 - 2x_3y_1^2y_3) + y_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2)) + b_{-2,0,-1,0,-2,0,0,0,0}^r(x_1(- \\
& 4x_2x_3y_1y_3 - 2x_3^2y_1y_2 + 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(- \\
& 2x_1^2x_3y_3 + 2x_3y_1^2y_3)) - ib_{-2,0,-1,0,0,0,-2,0,0}^r(x_1(2x_2x_4^2y_1 - 2x_2y_1y_4^2 - 4x_4y_1y_2y_4) + \\
& x_2(2x_1^2x_4y_4 - 2x_4y_1^2y_4) + y_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2)) + b_{-2,0,-1,0,0,0,-2,0,0}^r(x_1(-
\end{aligned}$$

$$\begin{aligned}
& 4x_2x_4y_1y_4 - 2x_4^2y_1y_2 + 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2) + y_2(- \\
& 2x_1^2x_4y_4 + 2x_4y_1^2y_4) + ib_{-2,0,-1,0,0,0,0,2,0}^r(x_1(-2x_2x_5^2y_1 + 2x_2y_1y_5^2 - 4x_5y_1y_2y_5) + \\
& x_2(2x_1^2x_5y_5 - 2x_5y_1^2y_5) + y_2(-x_1^2x_5^2 + x_1^2y_5^2 + x_5^2y_1^2 - y_1^2y_5^2)) + \\
& b_{-2,0,-1,0,0,0,0,0,2,0}^r(x_1(4x_2x_5y_1y_5 - 2x_5^2y_1y_2 + 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + \\
& y_1^2y_5^2) + y_2(2x_1^2x_5y_5 - 2x_5y_1^2y_5)) - ib_{-2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 - \\
& 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4) + y_3(x_1^2x_4x_5 - \\
& x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5)) + b_{-2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(-2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 - \\
& 2x_4x_5y_1y_3 + 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 - \\
& x_1^2x_5y_4 + x_4y_1^2y_5 + x_5y_1^2y_4)) + ib_{-2,0,0,0,-1,0,1,0,1,0}^r(x_1(-2x_3x_4x_5y_1 + 2x_3y_1y_4y_5 - \\
& 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 + \\
& x_1^2y_4y_5 + x_4x_5y_1^2 - y_1^2y_4y_5)) + b_{-2,0,0,0,-1,0,1,0,1,0}^r(x_1(2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 + \\
& 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(x_1^2x_4y_5 + x_1^2x_5y_4 - \\
& x_4y_1^2y_5 - x_5y_1^2y_4)) + ib_{-2,0,0,0,1,0,-1,0,1,0}^r(x_1(-2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 + 2x_4y_1y_3y_5 - \\
& 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(x_1^2x_4x_5 + x_1^2y_4y_5 - \\
& x_4x_5y_1^2 - y_1^2y_4y_5)) + b_{-2,0,0,0,1,0,-1,0,1,0}^r(x_1(2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 + \\
& 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 + x_1^2x_5y_4 + \\
& x_4y_1^2y_5 - x_5y_1^2y_4)) + ib_{-2,0,1,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + \\
& b_{-2,0,1,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + ib_{-2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(-2x_1x_2y_1 + \\
& y_2(x_1^2 - y_1^2)) + b_{-2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + ib_{-2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + b_{-2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + \\
& ib_{-2,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + b_{-2,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1y_1y_2 + \\
& x_2(x_1^2 - y_1^2)) + ib_{-2,1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + b_{-2,1,1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + b_{-3,0,0,0,-2,0,0,0,0,0}^r(x_1^3x_3^2 - x_1^3y_3^2 - 6x_1^2x_3y_1y_3 + x_1(- \\
& 3x_3^2y_1^2 + 3y_1^2y_3^2) + 2x_3y_1^2y_3) - ib_{-3,0,0,0,-2,0,0,0,0,0}^r(2x_1^3x_3y_3 - 6x_1x_3y_1^2y_3 - x_3^2y_1^3 + \\
& y_1^3y_3^2 + y_1(3x_1^2x_3^2 - 3x_1^2y_3^2)) + b_{-3,0,0,0,0,0,-2,0,0,0}^r(x_1^3x_4^2 - x_1^3y_4^2 - 6x_1^2x_4y_1y_4 + x_1(- \\
& 3x_4^2y_1^2 + 3y_1^2y_4^2) + 2x_4y_1^2y_4) - ib_{-3,0,0,0,0,0,-2,0,0,0}^r(2x_1^3x_4y_4 - 6x_1x_4y_1^2y_4 - x_4^2y_1^3 + \\
& y_1^3y_4^2 + y_1(3x_1^2x_4^2 - 3x_1^2y_4^2)) + b_{-3,0,0,0,0,0,0,2,0}^r(x_1^3x_5^2 - x_1^3y_5^2 + 6x_1^2x_5y_1y_5 + x_1(- \\
& 3x_5^2y_1^2 + 3y_1^2y_5^2) - 2x_5y_1^2y_5) + ib_{-3,0,0,0,0,0,0,2,0}^r(2x_1^3x_5y_5 - 6x_1x_5y_1^2y_5 + x_5^2y_1^3 - \\
& y_1^3y_5^2 + y_1(-3x_1^2x_5^2 + 3x_1^2y_5^2)) + b_{-3,0,2,0,0,0,0,0,0,0}^r(x_1^3x_2^2 - x_1^3y_2^2 + 6x_1^2x_2y_1y_2 + x_1(- \\
& 3x_2^2y_1^2 + 3y_1^2y_2^2) - 2x_2y_1^2y_2) + ib_{-3,0,2,0,0,0,0,0,0,0}^r(2x_1^3x_2y_2 - 6x_1x_2y_1^2y_2 + x_2^2y_1^3 - \\
& y_1^3y_2^2 + y_1(-3x_1^2x_2^2 + 3x_1^2y_2^2)) - ib_{0,0,-1,0,-2,0,0,0,-2,0}^r(x_2(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - \\
& 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_2(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) + \\
& b_{0,0,-1,0,-2,0,0,0,-2,0}^r(x_2(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_2(-2x_3^2x_5y_5 - \\
& 2x_3x_5^2y_3 + 2x_3y_3y_5^2 + 2x_5y_3^2y_5)) + ib_{0,0,-1,0,-2,0,2,0,0,0}^r(x_2(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_2(-x_3^2x_4^2 + x_3^2y_4^2 - 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) + \\
& b_{0,0,-1,0,-2,0,2,0,0,0}^r(x_2(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_2(2x_3^2x_4y_4 - \\
& 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) - ib_{0,0,-1,0,0,0,-2,0,-2,0}^r(x_2(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - \\
& 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_2(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + \\
& b_{0,0,-1,0,0,0,-2,0,-2,0}^r(x_2(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_2(-2x_4^2x_5y_5 - \\
& 2x_4x_5^2y_4 + 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) + b_{0,0,-1,0,0,0,0,0,2,0}^r(x_2(x_5^2 + y_5^2)^2 - ib_{0,0,-1,0,0,0,0,0,0,2}^r(x_5^2 + \\
& y_5^2)^2 + b_{0,0,-1,0,0,0,0,1,0,1}^r(x_2(x_4^2 + y_4^2)(x_5^2 + y_5^2) - ib_{0,0,-1,0,0,0,0,1,0,1}^r(y_2(x_4^2 + y_4^2)(x_5^2 + y_5^2) + \\
& b_{0,0,-1,0,0,0,0,2,0,0}^r(x_2(x_4^2 + y_4^2)^2 - ib_{0,0,-1,0,0,0,0,2,0,0}^r(y_2(x_4^2 + y_4^2)^2 + ib_{0,0,-1,0,0,0,2,0,2,0}^r(x_2(2x_4^2x_5y_5 +
\end{aligned}$$

$$\begin{aligned}
& 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_2(-x_4^2x_5^2 + x_4^2y_5^2 + 4x_4x_5y_4y_5 + x_5^2y_4^2 - \\
& y_4^2y_5^2)) + b_{0,0,-1,0,0,0,2,0,2,0}^r(x_2(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + \\
& y_2(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) + b_{0,0,-1,0,0,1,0,0,0,1}^r(x_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) - \\
& ib_{0,0,-1,0,0,1,0,0,0,1}^ry_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,-1,0,0,1,0,1,0,0}^r(x_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) - \\
& ib_{0,0,-1,0,0,1,0,1,0,0}^ry_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,-1,0,0,2,0,0,0,0}^rx_2(x_3^2 + y_3^2)^2 - \\
& ib_{0,0,-1,0,0,2,0,0,0,0}^ry_2(x_3^2 + y_3^2)^2 - ib_{0,0,-1,0,2,0,-2,0,0,0}^r(x_2(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_2(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2)) + \\
& b_{0,0,-1,0,2,0,-2,0,0,0}^r(x_2(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_2(-2x_3^2x_4y_4 + \\
& 2x_3x_4^2y_3 - 2x_3y_3y_4^2 + 2x_4y_3^2y_4)) + ib_{0,0,-1,0,2,0,0,0,2,0}^r(x_2(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - \\
& 2x_5y_3^2y_5) + y_2(-x_3^2x_5^2 + x_3^2y_5^2 + 4x_3x_5y_3y_5 + x_5^2y_3^2 - y_3^2y_5^2)) + \\
& b_{0,0,-1,0,2,0,0,0,2,0}^r(x_2(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_2(2x_3^2x_5y_5 + \\
& 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - 2x_5y_3^2y_5)) + b_{0,0,-1,1,0,0,0,0,0,1}^rx_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) - \\
& ib_{0,0,-1,1,0,0,0,0,0,1}^ry_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,-1,1,0,0,0,1,0,0}^rx_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) - \\
& ib_{0,0,-1,1,0,0,0,1,0,0}^ry_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{0,0,-1,1,0,1,0,0,0,0}^rx_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) - \\
& ib_{0,0,-1,1,0,1,0,0,0,0}^ry_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{0,0,-1,2,0,0,0,0,0,0}^rx_2(x_2^2 + y_2^2)^2 - \\
& ib_{0,0,-1,2,0,0,0,0,0,0}^ry_2(x_2^2 + y_2^2)^2 - ib_{0,0,-2,0,-1,0,-1,0,-1,0}^r(x_2(2x_3x_4x_5y_2 - 2x_3y_2y_4y_5 - 2x_4y_2y_3y_5 - \\
& 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 + x_2^2x_5y_4 - x_4y_2^2y_5 - x_5y_2^2y_4) + y_3(x_2^2x_4x_5 - x_2^2y_4y_5 - \\
& x_4x_5y_2^2 + y_2^2y_4y_5)) + b_{0,0,-2,0,-1,0,-1,0,-1,0}^r(x_2(-2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 + \\
& 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 - x_2^2y_4y_5 - x_4x_5y_2^2 + y_2^2y_4y_5) + y_3(-x_2^2x_4y_5 - x_2^2x_5y_4 + \\
& x_4y_2^2y_5 + x_5y_2^2y_4)) + ib_{0,0,-2,0,-1,0,1,0,1,0}^r(x_2(-2x_3x_4x_5y_2 + 2x_3y_2y_4y_5 - 2x_4y_2y_3y_5 - \\
& 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 + x_2^2x_5y_4 - x_4y_2^2y_5 - x_5y_2^2y_4) + y_3(-x_2^2x_4x_5 + x_2^2y_4y_5 + \\
& x_4x_5y_2^2 - y_2^2y_4y_5)) + b_{0,0,-2,0,-1,0,1,0,1,0}^r(x_2(2x_3x_4y_2y_5 + 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 + \\
& 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 - x_2^2y_4y_5 - x_4x_5y_2^2 + y_2^2y_4y_5) + y_3(x_2^2x_4y_5 + x_2^2x_5y_4 - \\
& x_4y_2^2y_5 - x_5y_2^2y_4)) + ib_{0,0,-2,0,1,0,-1,0,1,0}^r(x_2(-2x_3x_4x_5y_2 - 2x_3y_2y_4y_5 + 2x_4y_2y_3y_5 - \\
& 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4) + y_3(x_2^2x_4x_5 + x_2^2y_4y_5 - \\
& x_4x_5y_2^2 - y_2^2y_4y_5)) + b_{0,0,-2,0,1,0,-1,0,1,0}^r(x_2(2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 + 2x_4x_5y_2y_3 + \\
& 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 + x_2^2y_4y_5 - x_4x_5y_2^2 - y_2^2y_4y_5) + y_3(-x_2^2x_4y_5 + x_2^2x_5y_4 + \\
& x_4y_2^2y_5 - x_5y_2^2y_4)) + b_{0,0,-3,0,-2,0,0,0,0,0}^r(x_2^3x_3^2 - x_2^3y_3^2 - 6x_2^2x_3y_2y_3 + x_2(-3x_3^2y_2^2 + \\
& 3y_2^2y_3^2) + 2x_3y_2^3y_3) - ib_{0,0,-3,0,-2,0,0,0,0,0}^r(2x_2^3x_3y_3 - 6x_2x_3y_2^2y_3 - x_3^2y_2^3 + y_2^3y_3^2 + \\
& y_2(3x_2^2x_3^2 - 3x_2^2y_3^2)) + b_{0,0,-3,0,0,0,-2,0,0,0}^r(x_2^3x_4^2 - x_2^3y_4^2 - 6x_2^2x_4y_2y_4 + x_2(-3x_4^2y_2^2 + \\
& 3y_2^2y_4^2) + 2x_4y_2^3y_4) - ib_{0,0,-3,0,0,0,-2,0,0,0}^r(2x_2^3x_4y_4 - 6x_2x_4y_2^2y_4 - x_4^2y_2^3 + y_2^3y_4^2 + \\
& y_2(3x_2^2x_4^2 - 3x_2^2y_4^2)) + b_{0,0,-3,0,0,0,0,0,2,0}^r(x_2^3x_5^2 - x_2^3y_5^2 + 6x_2^2x_5y_2y_5 + x_2(-3x_5^2y_2^2 + \\
& 3y_2^2y_5^2) - 2x_5y_2^3y_5) + ib_{0,0,-3,0,0,0,0,0,2,0}^r(2x_2^3x_5y_5 - 6x_2x_5y_2^2y_5 + x_5^2y_2^3 - y_2^3y_5^2 + y_2(- \\
& 3x_2^2x_5^2 + 3x_2^2y_5^2)) + b_{0,0,0,0,-1,0,-1,0,-3,0}^r(x_3(x_4x_5^3 - 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3) + y_3(- \\
& 3x_4x_5^2y_5 + x_4y_5^3 - x_3^3y_4 + 3x_5y_4y_5^2)) - ib_{0,0,0,0,-1,0,-1,0,-3,0}^r(x_3(3x_4x_5^2y_5 - x_4y_5^3 + x_5^3y_4 - \\
& 3x_5y_4y_5^2) + y_3(x_4x_5^3 - 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3)) + b_{0,0,0,0,-1,0,-1,0,3,0}^r(x_3(x_4x_5^3 - \\
& 3x_4x_5y_5^2 + 3x_5^2y_4y_5 - y_4y_5^3) + y_3(3x_4x_5^2y_5 - x_4y_5^3 - x_5^3y_4 + 3x_5y_4y_5^2)) + \\
& ib_{0,0,0,0,-1,0,-1,0,3,0}^r(x_3(3x_4x_5^2y_5 - x_4y_5^3 - x_5^3y_4 + 3x_5y_4y_5^2) + y_3(-x_4x_5^3 + 3x_4x_5y_5^2 - \\
& 3x_5^2y_4y_5 + y_4y_5^3)) + b_{0,0,0,0,-1,0,-3,0,1,0}^r(x_3(x_4^3x_5 + 3x_4^2y_4y_5 - 3x_4x_5y_4^2 - y_4^3y_5) + y_3(x_4^3y_5 - \\
& 3x_4^2x_5y_4 - 3x_4y_4^2y_5 + x_5y_4^3)) + ib_{0,0,0,0,-1,0,-3,0,1,0}^r(x_3(x_4^3y_5 - 3x_4^2x_5y_4 - 3x_4y_4^2y_5 + \\
& x_5y_4^3) + y_3(-x_4^3x_5 - 3x_4^2y_4y_5 + 3x_4x_5y_4^2 + y_4^3y_5)) + b_{0,0,0,0,-1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4x_5 + \\
& y_4y_5) + y_3(-x_4y_5 + x_5y_4)) - ib_{0,0,0,0,-1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,0,-1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) - ib_{0,0,0,0,-1,0,1,1,-1,0}^r(x_4^2 + \\
& y_4^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,0,0,0,-1,0,3,0,1,0}^r(x_3(x_4^3x_5 - 3x_4^2y_4y_5 - 3x_4x_5y_4^2 + \\
& y_4^3y_5) + y_3(x_3^3y_5 + 3x_4^2x_5y_4 - 3x_4y_4^2y_5 - x_5y_4^3)) + ib_{0,0,0,0,-1,0,3,0,1,0}^r(x_3(x_4^3y_5 + \\
& 3x_4^2x_5y_4 - 3x_4y_4^2y_5 - x_5y_4^3) + y_3(-x_4^3x_5 + 3x_4^2y_4y_5 + 3x_4x_5y_4^2 - y_4^3y_5)) + \\
& b_{0,0,0,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) - ib_{0,0,0,0,-1,1,1,0,-1,0}^r(x_3^2 + \\
& y_3^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,0,0,0,-3,0,-1,0,1,0}^r(x_3(-3x_4x_5y_3^2 - 3y_3^2y_4y_5) + \\
& x_4(x_3^3x_5 - y_3^3y_5) + y_3(3x_3^2x_4y_5 - 3x_3^2x_5y_4) + y_4(x_3^3y_5 + x_5y_3^3)) + ib_{0,0,0,0,-3,0,-1,0,1,0}^r(x_3(- \\
& 3x_4y_3^2y_5 + 3x_5y_3^2y_4) + x_4(x_3^3y_5 + x_5y_3^3) + y_3(-3x_3^2x_4x_5 - 3x_3^2y_4y_5) + y_4(-x_3^3x_5 + \\
& y_3^3y_5)) + b_{0,0,0,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) - ib_{0,0,0,0,1,0,-1,0,-1,1}^r(x_5^2 + \\
& y_5^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) + b_{0,0,0,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + \\
& x_5y_4)) - ib_{0,0,0,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) + b_{0,0,0,0,1,0,1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) + ib_{0,0,0,0,1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_3(x_4y_5 + x_5y_4) + \\
& y_3(x_4x_5 - y_4y_5)) + b_{0,0,0,0,1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) + \\
& ib_{0,0,0,0,1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) + b_{0,0,0,0,1,1,-1,0,-1,0}^r(x_3^2 + \\
& y_3^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) - ib_{0,0,0,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4y_5 + x_5y_4) + y_3(- \\
& x_4x_5 + y_4y_5)) + b_{0,0,0,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) + \\
& ib_{0,0,0,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) + b_{0,0,0,0,3,0,-1,0,1,0}^r(x_3(-3x_4x_5y_3^2 - \\
& 3y_3^2y_4y_5) + x_4(x_3^3x_5 + y_3^3y_5) + y_3(-3x_3^2x_4y_5 + 3x_3^2x_5y_4) + y_4(x_3^3y_5 - x_5y_3^3)) + \\
& ib_{0,0,0,0,3,0,-1,0,1,0}^r(x_3(-3x_4y_3^2y_5 + 3x_5y_3^2y_4) + x_4(x_3^3y_5 - x_5y_3^3) + y_3(3x_3^2x_4x_5 + 3x_3^2y_4y_5) + \\
& y_4(-x_3^3x_5 - y_3^3y_5)) + b_{0,0,0,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) - \\
& ib_{0,0,0,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,0,0,1,1,0,-1,0,-1,0}^r(x_2^2 + \\
& y_2^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) - ib_{0,0,0,1,1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4y_5 + x_5y_4) + y_3(- \\
& x_4x_5 + y_4y_5)) + b_{0,0,0,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) + \\
& ib_{0,0,0,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) - ib_{0,0,1,0,-2,0,-2,0,0,0}^r(x_2(2x_3^2x_4y_4 + \\
& 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - 2x_4y_3^2y_4) + y_2(-x_3^2x_4^2 + x_3^2y_4^2 + 4x_3x_4y_3y_4 + x_4^2y_3^2 - \\
& y_3^2y_4^2)) + b_{0,0,1,0,-2,0,-2,0,0,0}^r(x_2(x_3^2x_4^2 - x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + \\
& y_2(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) + ib_{0,0,1,0,-2,0,0,0,2,0}^r(x_2(2x_3^2x_5y_5 - \\
& 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_2(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + \\
& y_3^2y_5^2)) + b_{0,0,1,0,-2,0,0,0,2,0}^r(x_2(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_2(- \\
& 2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 + 2x_5y_3^2y_5)) - ib_{0,0,1,0,-4,0,0,0,0,0}^r(x_2(4x_3^3y_3 - 4x_3y_3^3) + y_2(- \\
& x_3^4 + 6x_3^2y_3^2 - y_3^4)) + b_{0,0,1,0,-4,0,0,0,0,0}^r(x_2(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_2(4x_3^3y_3 - 4x_3y_3^3)) + \\
& ib_{0,0,1,0,0,0,-2,0,2,0}^r(x_2(2x_4^2x_5y_5 - 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_2(x_4^2x_5^2 - x_4^2y_5^2 + \\
& 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + b_{0,0,1,0,0,0,-2,0,2,0}^r(x_2(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - \\
& x_5^2y_4^2 + y_4^2y_5^2) + y_2(-2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) - \\
& ib_{0,0,1,0,0,0,-4,0,0,0}^r(x_2(4x_4^3y_4 - 4x_4y_4^3) + y_2(-x_4^4 + 6x_4^2y_4^2 - y_4^4)) + b_{0,0,1,0,0,0,-4,0,0,0}^r(x_2(x_4^4 - \\
& 6x_4^2y_4^2 + y_4^4) + y_2(4x_4^3y_4 - 4x_4y_4^3)) + b_{0,0,1,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) - \\
& ib_{0,0,1,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) + ib_{0,0,1,0,0,0,0,0,4,0}^r(x_2(4x_5^3y_5 - 4x_5y_5^3) + \\
& y_2(x_5^4 - 6x_5^2y_5^2 + y_5^4)) + b_{0,0,1,0,0,0,0,0,4,0}^r(x_2(x_5^4 - 6x_5^2y_5^2 + y_5^4) + y_2(-4x_5^3y_5 + 4x_5y_5^3)) + \\
& b_{0,0,1,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) - ib_{0,0,1,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(2x_2x_5y_5 + y_2(- \\
& x_5^2 + y_5^2)) + b_{0,0,1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) + ib_{0,0,1,0,0,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) + b_{0,0,1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) + \\
& ib_{0,0,1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) + b_{0,0,1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2(x_5^2 - y_5^2) +
\end{aligned}$$





$$\begin{aligned}
& x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4)) - \\
& ib_{1,0,-1,0,1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + \\
& x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5)) + b_{1,0,-1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) + \\
& ib_{1,0,-1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + \\
& x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) + b_{1,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) - \\
& ib_{1,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2^2 - \\
& y_2^2) + 2x_2y_1y_2) - ib_{1,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) - ib_{1,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + \\
& b_{1,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) - ib_{1,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2y_2 + y_1(- \\
& x_2^2 + y_2^2)) - ib_{1,0,0,0,-2,0,-2,0,0,0}^r(x_1(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - 2x_4y_3^2y_4) + y_1(- \\
& x_3^2x_4^2 + x_3^2y_4^2 + 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) + b_{1,0,0,0,-2,0,-2,0,0,0}^r(x_1(x_3^2x_4^2 - \\
& x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_1(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4)) + ib_{1,0,0,0,-2,0,0,0,2,0}^r(x_1(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + \\
& y_1(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) + b_{1,0,0,0,-2,0,0,0,2,0}^r(x_1(x_3^2x_5^2 - \\
& x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_1(-2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 + \\
& 2x_5y_3^2y_5)) - ib_{1,0,0,0,-4,0,0,0,0,0}^r(x_1(4x_3^3y_3 - 4x_3y_3^3) + y_1(-x_3^4 + 6x_3^2y_3^2 - y_3^4)) + \\
& b_{1,0,0,0,-4,0,0,0,0,0}^r(x_1(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_1(4x_3^3y_3 - 4x_3y_3^3)) + \\
& ib_{1,0,0,0,0,0,-2,0,2,0}^r(x_1(2x_4^2x_5y_5 - 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_1(x_4^2x_5^2 - x_4^2y_5^2 + \\
& 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + b_{1,0,0,0,0,0,-2,0,2,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - \\
& x_5^2y_4^2 + y_4^2y_5^2) + y_1(-2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) - \\
& ib_{1,0,0,0,0,0,-4,0,0,0}^r(x_1(4x_4^3y_4 - 4x_4y_4^3) + y_1(-x_4^4 + 6x_4^2y_4^2 - y_4^4)) + b_{1,0,0,0,0,0,-4,0,0,0}^r(x_1(x_4^4 - \\
& 6x_4^2y_4^2 + y_4^4) + y_1(4x_4^3y_4 - 4x_4y_4^3)) + b_{1,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_5^2 - y_5^2) + 2x_5y_1y_5) - \\
& ib_{1,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) + ib_{1,0,0,0,0,0,0,0,4,0}^r(x_1(4x_5^3y_5 - 4x_5y_5^3) + \\
& y_1(x_5^4 - 6x_5^2y_5^2 + y_5^4)) + b_{1,0,0,0,0,0,0,0,4,0}^r(x_1(x_5^4 - 6x_5^2y_5^2 + y_5^4) + y_1(-4x_5^3y_5 + 4x_5y_5^3)) + \\
& b_{1,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1(x_5^2 - y_5^2) + 2x_5y_1y_5) - ib_{1,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(2x_1x_5y_5 + y_1(- \\
& x_5^2 + y_5^2)) + b_{1,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) + ib_{1,0,0,0,0,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + b_{1,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) + \\
& ib_{1,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + b_{1,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1(x_5^2 - y_5^2) + \\
& 2x_5y_1y_5) - ib_{1,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) + b_{1,0,0,0,0,1,2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) + ib_{1,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + \\
& b_{1,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) + ib_{1,0,0,0,2,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_3y_3 + \\
& y_1(x_3^2 - y_3^2)) + b_{1,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) + ib_{1,0,0,0,2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) + b_{1,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) + \\
& ib_{1,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) + b_{1,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1(x_5^2 - y_5^2) + \\
& 2x_5y_1y_5) - ib_{1,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) + b_{1,0,0,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) + ib_{1,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + \\
& b_{1,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) + ib_{1,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_3y_3 + \\
& y_1(x_3^2 - y_3^2)) + b_{1,0,1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 -
\end{aligned}$$

$$\begin{aligned}
& x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 + \\
& x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) + ib_{1,0,1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4y_5 - \\
& x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + \\
& y_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + \\
& y_2y_3y_4y_5)) + b_{1,0,1,0,1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) - ib_{1,0,1,0,1,0,1,0,-1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 - \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) - \\
& ib_{1,0,2,0,-2,0,0,0,0,0}^r(x_1(2x_2^2x_3y_3 - 2x_2x_3^2y_2 + 2x_2y_2y_3^2 - 2x_3y_2^2y_3) + y_1(-x_2^2x_3^2 + x_2^2y_3^2 - \\
& 4x_2x_3y_2y_3 + x_3^2y_2^2 - y_2^2y_3^2)) + b_{1,0,2,0,-2,0,0,0,0,0}^r(x_1(x_2^2x_3^2 - x_2^2y_3^2 + 4x_2x_3y_2y_3 - \\
& x_3^2y_2^2 + y_2^2y_3^2) + y_1(2x_2^2x_3y_3 - 2x_2x_3^2y_2 + 2x_2y_2y_3^2 - 2x_3y_2^2y_3)) - \\
& ib_{1,0,2,0,0,0,-2,0,0,0}^r(x_1(2x_2^2x_4y_4 - 2x_2x_4^2y_2 + 2x_2y_2y_4^2 - 2x_4y_2^2y_4) + y_1(-x_2^2x_4^2 + x_2^2y_4^2 - \\
& 4x_2x_4y_2y_4 + x_4^2y_2^2 - y_2^2y_4^2)) + b_{1,0,2,0,0,0,-2,0,0,0}^r(x_1(x_2^2x_4^2 - x_2^2y_4^2 + 4x_2x_4y_2y_4 - \\
& x_4^2y_2^2 + y_2^2y_4^2) + y_1(2x_2^2x_4y_4 - 2x_2x_4^2y_2 + 2x_2y_2y_4^2 - 2x_4y_2^2y_4)) + \\
& ib_{1,0,2,0,0,0,0,0,2,0}^r(x_1(2x_2^2x_5y_5 + 2x_2x_5^2y_2 - 2x_2y_2y_5^2 - 2x_5y_2^2y_5) + y_1(x_2^2x_5^2 - x_2^2y_5^2 - \\
& 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2)) + b_{1,0,2,0,0,0,0,0,2,0}^r(x_1(x_2^2x_5^2 - x_2^2y_5^2 - 4x_2x_5y_2y_5 - \\
& x_5^2y_2^2 + y_2^2y_5^2) + y_1(-2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 + 2x_5y_2^2y_5)) + \\
& ib_{1,0,4,0,0,0,0,0,0,0}^r(x_1(4x_2^3y_2 - 4x_2y_2^3) + y_1(x_2^4 - 6x_2^2y_2^2 + y_2^4)) + b_{1,0,4,0,0,0,0,0,0,0}^r(x_1(x_2^4 - \\
& 6x_2^2y_2^2 + y_2^4) + y_1(-4x_2^3y_2 + 4x_2y_2^3)) + b_{1,1,-2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) - \\
& ib_{1,1,-2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_2^2 - \\
& y_2^2) + 2x_5y_1y_5) - ib_{1,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) + b_{1,1,0,0,0,0,2,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) + ib_{1,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + \\
& b_{1,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) + ib_{1,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_3y_3 + \\
& y_1(x_3^2 - y_3^2)) - ib_{2,0,-1,0,0,0,0,0,-2,0}^r(x_1(-2x_2x_5^2y_1 + 2x_2y_1y_5^2 + 4x_5y_1y_2y_5) + x_2(2x_1^2x_5y_5 - \\
& 2x_5y_1^2y_5) + y_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2)) + b_{2,0,-1,0,0,0,0,0,-2,0}^r(x_1(4x_2x_5y_1y_5 + \\
& 2x_5^2y_1y_2 - 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2) + y_2(-2x_1^2x_5y_5 + \\
& 2x_5y_1^2y_5)) + ib_{2,0,-1,0,0,0,2,0,0,0}^r(x_1(2x_2x_4^2y_1 - 2x_2y_1y_4^2 + 4x_4y_1y_2y_4) + x_2(2x_1^2x_4y_4 - \\
& 2x_4y_1^2y_4) + y_2(-x_1^2x_4^2 + x_1^2y_4^2 + x_4^2y_1^2 - y_1^2y_4^2)) + b_{2,0,-1,0,0,0,2,0,0,0}^r(x_1(-4x_2x_4y_1y_4 + \\
& 2x_4^2y_1y_2 - 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2) + y_2(2x_1^2x_4y_4 - \\
& 2x_4y_1^2y_4)) + ib_{2,0,-1,0,2,0,0,0,0,0}^r(x_1(2x_2x_3^2y_1 - 2x_2y_1y_3^2 + 4x_3y_1y_2y_3) + x_2(2x_1^2x_3y_3 - \\
& 2x_3y_1^2y_3) + y_2(-x_1^2x_3^2 + x_1^2y_3^2 + x_3^2y_1^2 - y_1^2y_3^2)) + b_{2,0,-1,0,2,0,0,0,0,0}^r(x_1(-4x_2x_3y_1y_3 + \\
& 2x_3^2y_1y_2 - 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(2x_1^2x_3y_3 - \\
& 2x_3y_1^2y_3)) + b_{2,0,-3,0,0,0,0,0,0,0}^r(x_1^2x_2^3 + x_1(6x_2^2y_1y_2 - 2y_1y_2^3) - x_2^3y_1^2 + x_2(-3x_1^2y_2^2 + \\
& 3y_1^2y_2^2)) - ib_{2,0,-3,0,0,0,0,0,0,0}^r(-x_1^2y_2^3 + x_1(-2x_2^3y_1 + 6x_2y_1y_2^2) + y_1^2y_2^3 + y_2(3x_1^2x_2^2 - \\
& 3x_2^2y_1^2)) + ib_{2,0,0,0,-1,0,-1,0,1,0}^r(x_1(2x_3x_4x_5y_1 + 2x_3y_1y_4y_5 + 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + \\
& x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 - x_1^2y_4y_5 + x_4x_5y_1^2 + \\
& y_1^2y_4y_5)) + b_{2,0,0,0,-1,0,-1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 + 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + \\
& x_5y_1^2y_4)) - ib_{2,0,0,0,1,0,1,0,-1,0}^r(x_1(-2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 - 2x_4y_1y_3y_5 + 2x_5y_1y_3y_4) + \\
& x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 - x_1^2y_4y_5 + x_4x_5y_1^2 + \\
& y_1^2y_4y_5)) + b_{2,0,0,0,1,0,1,0,-1,0}^r(x_1(2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 +
\end{aligned}$$

$$\begin{aligned}
& x_5 y_1^2 y_4)) - ib_{2,0,1,0,-2,0,0,0,0}^r (x_1 (-2x_2 x_3^2 y_1 + 2x_2 y_1 y_3^2 - 4x_3 y_1 y_2 y_3) + x_2 (2x_1^2 x_3 y_3 - \\
& 2x_3 y_1^2 y_3) + y_2 (-x_1^2 x_3^2 + x_1^2 y_3^2 + x_3^2 y_1^2 - y_1^2 y_3^2)) + b_{2,0,1,0,-2,0,0,0,0}^r (x_1 (4x_2 x_3 y_1 y_3 - \\
& 2x_3^2 y_1 y_2 + 2y_1 y_2 y_3^2) + x_2 (x_1^2 x_3^2 - x_1^2 y_3^2 - x_3^2 y_1^2 + y_1^2 y_3^2) + y_2 (2x_1^2 x_3 y_3 - \\
& 2x_3 y_1^2 y_3)) - ib_{2,0,1,0,0,0,-2,0,0,0}^r (x_1 (-2x_2 x_4^2 y_1 + 2x_2 y_1 y_4^2 - 4x_4 y_1 y_2 y_4) + x_2 (2x_1^2 x_4 y_4 - \\
& 2x_4 y_1^2 y_4) + y_2 (-x_1^2 x_4^2 + x_1^2 y_4^2 + x_4^2 y_1^2 - y_1^2 y_4^2)) + b_{2,0,1,0,0,0,-2,0,0,0}^r (x_1 (4x_2 x_4 y_1 y_4 - \\
& 2x_4^2 y_1 y_2 + 2y_1 y_2 y_4^2) + x_2 (x_1^2 x_4^2 - x_1^2 y_4^2 - x_4^2 y_1^2 + y_1^2 y_4^2) + y_2 (2x_1^2 x_4 y_4 - \\
& 2x_4 y_1^2 y_4)) + ib_{2,0,1,0,0,0,0,0,2,0}^r (x_1 (2x_2 x_5^2 y_1 - 2x_2 y_1 y_5^2 - 4x_5 y_1 y_2 y_5) + x_2 (2x_1^2 x_5 y_5 - \\
& 2x_5 y_1^2 y_5) + y_2 (x_1^2 x_5^2 - x_1^2 y_5^2 - x_5^2 y_1^2 + y_1^2 y_5^2)) + b_{2,0,1,0,0,0,0,0,2,0}^r (x_1 (-4x_2 x_5 y_1 y_5 - \\
& 2x_5^2 y_1 y_2 + 2y_1 y_2 y_5^2) + x_2 (x_1^2 x_5^2 - x_1^2 y_5^2 - x_5^2 y_1^2 + y_1^2 y_5^2) + y_2 (-2x_1^2 x_5 y_5 + \\
& 2x_5 y_1^2 y_5)) + b_{2,0,3,0,0,0,0,0,0,0}^r (x_1^3 x_2^3 + x_1 (-6x_2^2 y_1 y_2 + 2y_1 y_2^3) - x_2^3 y_1^2 + x_2 (-3x_1^2 y_2^2 + \\
& 3y_1^2 y_2^2)) + ib_{2,0,3,0,0,0,0,0,0,0}^r (-x_1^2 y_2^3 + x_1 (2x_2^3 y_1 - 6x_2 y_1 y_2^2) + y_1^2 y_2^3 + y_2 (3x_1^2 x_2^2 - \\
& 3x_2^2 y_1^2)) + b_{3,0,0,0,-2,0,0,0,0,0}^r (x_1^3 x_3^2 - x_1^3 y_3^2 + 6x_1^2 x_3 y_1 y_3 + x_1 (-3x_3^2 y_1^2 + 3y_1^2 y_3^2) - \\
& 2x_3 y_1^3 y_3) - ib_{3,0,0,0,-2,0,0,0,0,0}^r (2x_1^3 x_3 y_3 - 6x_1 x_3 y_1^2 y_3 + x_3^2 y_1^3 - y_1^3 y_3^2 + y_1 (-3x_1^2 x_3^2 + \\
& 3x_1^2 y_3^2)) + b_{3,0,0,0,0,0,-2,0,0,0}^r (x_1^3 x_4^2 - x_1^3 y_4^2 + 6x_1^2 x_4 y_1 y_4 + x_1 (-3x_4^2 y_1^2 + 3y_1^2 y_4^2) - \\
& 2x_4 y_1^3 y_4) - ib_{3,0,0,0,0,0,-2,0,0,0}^r (2x_1^3 x_4 y_4 - 6x_1 x_4 y_1^2 y_4 + x_4^2 y_1^3 - y_1^3 y_4^2 + y_1 (-3x_1^2 x_4^2 + \\
& 3x_1^2 y_4^2)) + b_{3,0,0,0,0,0,0,0,2,0}^r (x_1^3 x_5^2 - x_1^3 y_5^2 - 6x_1^2 x_5 y_1 y_5 + x_1 (-3x_5^2 y_1^2 + 3y_1^2 y_5^2) + \\
& 2x_5 y_1^3 y_5) + ib_{3,0,0,0,0,0,0,0,2,0}^r (2x_1^3 x_5 y_5 - 6x_1 x_5 y_1^2 y_5 - x_5^2 y_1^3 + y_1^3 y_5^2 + y_1 (3x_1^2 x_5^2 - \\
& 3x_1^2 y_5^2)) + b_{3,0,2,0,0,0,0,0,0,0}^r (x_1^3 x_2^2 - x_1^3 y_2^2 - 6x_1^2 x_2 y_1 y_2 + x_1 (-3x_2^2 y_1^2 + 3y_1^2 y_2^2) + \\
& 2x_2 y_1^3 y_2) + ib_{3,0,2,0,0,0,0,0,0,0}^r (2x_1^3 x_2 y_2 - 6x_1 x_2 y_1^2 y_2 - x_2^2 y_1^3 + y_1^3 y_2^2 + y_1 (3x_1^2 x_2^2 - \\
& 3x_1^2 y_2^2)) + ib_{4,0,1,0,0,0,0,0,0,0}^r (4x_1^3 x_2 y_1 - 4x_1 x_2 y_1^3 + y_2 (x_1^4 - 6x_1^2 y_1^2 + y_1^4)) + b_{4,0,1,0,0,0,0,0,0,0}^r (- \\
& 4x_1^3 y_1 y_2 + 4x_1 y_1^3 y_2 + x_2 (x_1^4 - 6x_1^2 y_1^2 + y_1^4)) + b_{5,0,0,0,0,0,0,0,0,0}^r x_1 (x_1^4 - 10x_1^2 y_1^2 + 5y_1^4) + \\
& ib_{5,0,0,0,0,0,0,0,0,0}^r y_1 (5x_1^4 - 10x_1^2 y_1^2 + y_1^4)
\end{aligned}$$

$$\begin{aligned}
H_{-+}^{(5)} = & b_{-1,0,-1,0,-1,0,-1,0,-1,0}^r (x_1 (x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - \\
& x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1 (-x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4)) + ib_{-1,0,-1,0,-1,0,-1,0,-1,0}^r (x_1 (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4) + y_1 (x_2 x_3 x_4 x_5 - \\
& x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5)) + \\
& b_{-1,0,-1,0,-1,0,1,0,1,0}^r (x_1 (x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 - \\
& x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1 (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4)) - ib_{-1,0,-1,0,-1,0,1,0,1,0}^r (x_1 (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - \\
& x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4) + y_1 (-x_2 x_3 x_4 x_5 + \\
& x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5)) + \\
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r (x_1 (x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + \\
& x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1 (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 - \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4)) - ib_{-1,0,-1,0,1,0,-1,0,1,0}^r (x_1 (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4) + y_1 (-x_2 x_3 x_4 x_5 - \\
& x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5)) + \\
& ib_{-1,0,-2,0,-2,0,0,0,0,0}^r (x_1 (2x_2^2 x_3 y_3 + 2x_2 x_3^2 y_2 - 2x_2 y_2 y_3^2 - 2x_3 y_2^2 y_3) + y_1 (x_2^2 x_3^2 - x_2^2 y_3^2 - \\
& 4x_2 x_3 y_2 y_3 - x_3^2 y_2^2 + y_2^2 y_3^2)) + b_{-1,0,-2,0,-2,0,0,0,0,0}^r (x_1 (x_2^2 x_3^2 - x_2^2 y_3^2 - 4x_2 x_3 y_2 y_3 - \\
& x_3^2 y_2^2 + y_2^2 y_3^2) + y_1 (-2x_2^2 x_3 y_3 - 2x_2 x_3^2 y_2 + 2x_2 y_2 y_3^2 + 2x_3 y_2^2 y_3)) + \\
& ib_{-1,0,-2,0,0,0,-2,0,0,0}^r (x_1 (2x_2^2 x_4 y_4 + 2x_2 x_4^2 y_2 - 2x_2 y_2 y_4^2 - 2x_4 y_2^2 y_4) + y_1 (x_2^2 x_4^2 - x_2^2 y_4^2 - \\
& 4x_2 x_4 y_2 y_4 - x_4^2 y_2^2 + y_2^2 y_4^2)) + b_{-1,0,-2,0,0,0,-2,0,0,0}^r (x_1 (x_2^2 x_4^2 - x_2^2 y_4^2 - 4x_2 x_4 y_2 y_4 -
\end{aligned}$$

$$\begin{aligned}
& x_4^2 y_2^2 + y_2^2 y_4^2) + y_1(-2x_2^2 x_4 y_4 - 2x_2 x_4^2 y_2 + 2x_2 y_2 y_4^2 + 2x_4 y_2^2 y_4) - \\
& ib_{-1,0,-2,0,0,0,0,0,2,0}^r(x_1(2x_2^2 x_5 y_5 - 2x_2 x_5^2 y_2 + 2x_2 y_2 y_5^2 - 2x_5 y_2^2 y_5) + y_1(-x_2^2 x_5^2 + x_2^2 y_5^2 - \\
& 4x_2 x_5 y_2 y_5 + x_5^2 y_2^2 - y_2^2 y_5^2)) + b_{-1,0,-2,0,0,0,0,0,2,0}^r(x_1(x_2^2 x_5^2 - x_2^2 y_5^2 + 4x_2 x_5 y_2 y_5 - \\
& x_5^2 y_2^2 + y_2^2 y_5^2) + y_1(2x_2^2 x_5 y_5 - 2x_2 x_5^2 y_2 + 2x_2 y_2 y_5^2 - 2x_5 y_2^2 y_5)) + \\
& ib_{-1,0,0,0,-2,0,0,0,-2,0}^r(x_1(2x_3^2 x_5 y_5 + 2x_3 x_5^2 y_3 - 2x_3 y_3 y_5^2 - 2x_5 y_3^2 y_5) + y_1(x_3^2 x_5^2 - x_3^2 y_5^2 - \\
& 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2)) + b_{-1,0,0,0,-2,0,0,0,-2,0}^r(x_1(x_3^2 x_5^2 - x_3^2 y_5^2 - 4x_3 x_5 y_3 y_5 - \\
& x_5^2 y_3^2 + y_3^2 y_5^2) + y_1(-2x_3^2 x_5 y_5 - 2x_3 x_5^2 y_3 + 2x_3 y_3 y_5^2 + 2x_5 y_3^2 y_5)) - \\
& ib_{-1,0,0,0,-2,0,2,0,0,0}^r(x_1(2x_3^2 x_4 y_4 - 2x_3 x_4^2 y_3 + 2x_3 y_3 y_4^2 - 2x_4 y_3^2 y_4) + y_1(-x_3^2 x_4^2 + x_3^2 y_4^2 - \\
& 4x_3 x_4 y_3 y_4 + x_4^2 y_3^2 - y_3^2 y_4^2)) + b_{-1,0,0,0,-2,0,2,0,0,0}^r(x_1(x_3^2 x_4^2 - x_3^2 y_4^2 + 4x_3 x_4 y_3 y_4 - \\
& x_4^2 y_3^2 + y_3^2 y_4^2) + y_1(2x_3^2 x_4 y_4 - 2x_3 x_4^2 y_3 + 2x_3 y_3 y_4^2 - 2x_4 y_3^2 y_4)) + \\
& ib_{-1,0,0,0,0,0,-2,0,-2,0}^r(x_1(2x_4^2 x_5 y_5 + 2x_4 x_5^2 y_4 - 2x_4 y_4 y_5^2 - 2x_5 y_4^2 y_5) + y_1(x_4^2 x_5^2 - x_4^2 y_5^2 - \\
& 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2)) + b_{-1,0,0,0,0,0,-2,0,-2,0}^r(x_1(x_4^2 x_5^2 - x_4^2 y_5^2 - 4x_4 x_5 y_4 y_5 - \\
& x_5^2 y_4^2 + y_4^2 y_5^2) + y_1(-2x_4^2 x_5 y_5 - 2x_4 x_5^2 y_4 + 2x_4 y_4 y_5^2 + 2x_5 y_4^2 y_5)) + \\
& b_{-1,0,0,0,0,0,0,0,0,2}^r(x_1(x_5^2 + y_5^2)^2) + ib_{-1,0,0,0,0,0,0,0,0,2}^r y_1(x_5^2 + y_5^2)^2 + b_{-1,0,0,0,0,0,0,1,0,1}^r x_1(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) + ib_{-1,0,0,0,0,0,0,1,0,1}^r y_1(x_4^2 + y_4^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,0,2,0,0}^r x_1(x_4^2 + y_4^2)^2 + \\
& ib_{-1,0,0,0,0,0,0,2,0,0}^r y_1(x_4^2 + y_4^2)^2 - ib_{-1,0,0,0,0,0,2,0,2,0}^r(x_1(2x_4^2 x_5 y_5 + 2x_4 x_5^2 y_4 - 2x_4 y_4 y_5^2 - \\
& 2x_5 y_4^2 y_5) + y_1(-x_4^2 x_5^2 + x_4^2 y_5^2 + 4x_4 x_5 y_4 y_5 + x_5^2 y_4^2 - y_4^2 y_5^2)) + \\
& b_{-1,0,0,0,0,0,2,0,2,0}^r(x_1(x_4^2 x_5^2 - x_4^2 y_5^2 - 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2) + y_1(2x_4^2 x_5 y_5 + \\
& 2x_4 x_5^2 y_4 - 2x_4 y_4 y_5^2 - 2x_5 y_4^2 y_5)) + b_{-1,0,0,0,0,1,0,0,0,1}^r x_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) + \\
& ib_{-1,0,0,0,0,1,0,0,0,1}^r y_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,1,0,1,0,0}^r x_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& ib_{-1,0,0,0,0,1,0,1,0,0}^r y_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{-1,0,0,0,0,2,0,0,0,0}^r x_1(x_3^2 + y_3^2)^2 + \\
& ib_{-1,0,0,0,0,2,0,0,0,0}^r y_1(x_3^2 + y_3^2)^2 + ib_{-1,0,0,0,2,0,-2,0,0,0}^r(x_1(2x_3^2 x_4 y_4 - 2x_3 x_4^2 y_3 + 2x_3 y_3 y_4^2 - \\
& 2x_4 y_3^2 y_4) + y_1(x_3^2 x_4^2 - x_3^2 y_4^2 + 4x_3 x_4 y_3 y_4 - x_4^2 y_3^2 + y_3^2 y_4^2)) + \\
& b_{-1,0,0,0,2,0,-2,0,0,0}^r(x_1(x_3^2 x_4^2 - x_3^2 y_4^2 + 4x_3 x_4 y_3 y_4 - x_4^2 y_3^2 + y_3^2 y_4^2) + y_1(-2x_3^2 x_4 y_4 + \\
& 2x_3 x_4^2 y_3 - 2x_3 y_3 y_4^2 + 2x_4 y_3^2 y_4)) - ib_{-1,0,0,0,2,0,0,0,2,0}^r(x_1(2x_3^2 x_5 y_5 + 2x_3 x_5^2 y_3 - 2x_3 y_3 y_5^2 - \\
& 2x_5 y_3^2 y_5) + y_1(-x_3^2 x_5^2 + x_3^2 y_5^2 + 4x_3 x_5 y_3 y_5 + x_5^2 y_3^2 - y_3^2 y_5^2)) + \\
& b_{-1,0,0,0,2,0,0,0,2,0}^r(x_1(x_3^2 x_5^2 - x_3^2 y_5^2 - 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2) + y_1(2x_3^2 x_5 y_5 + \\
& 2x_3 x_5^2 y_3 - 2x_3 y_3 y_5^2 - 2x_5 y_3^2 y_5)) + b_{-1,0,0,1,0,0,0,0,0,1}^r x_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) + \\
& ib_{-1,0,0,1,0,0,0,0,0,1}^r y_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{-1,0,0,1,0,0,0,1,0,0}^r x_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& ib_{-1,0,0,1,0,0,0,1,0,0}^r y_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{-1,0,0,1,0,1,0,0,0,0}^r x_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) + \\
& ib_{-1,0,0,1,0,1,0,0,0,0}^r y_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{-1,0,0,2,0,0,0,0,0,0}^r x_1(x_2^2 + y_2^2)^2 + \\
& ib_{-1,0,0,2,0,0,0,0,0,0}^r y_1(x_2^2 + y_2^2)^2 + b_{-1,0,1,0,-1,0,1,0,-1,0}^r(x_1(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 + \\
& x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1(-x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - \\
& x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4)) + \\
& ib_{-1,0,1,0,-1,0,1,0,-1,0}^r(x_1(x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + \\
& x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4) + y_1(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - \\
& x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5)) + b_{-1,0,1,0,1,0,-1,0,-1,0}^r(x_1(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 + \\
& x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1(-x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4)) + \\
& ib_{-1,0,1,0,1,0,-1,0,-1,0}^r(x_1(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - \\
& x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4) + y_1(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + \\
& x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5)) + b_{-1,0,1,0,1,0,1,0,1,0}^r(x_1(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 - \\
& x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 +
\end{aligned}$$

$$\begin{aligned}
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) - \\
& ib_{-1,0,1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) + ib_{-1,0,2,0,0,0,0,0,-2,0}^r(x_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - \\
& 2x_5y_2^2y_5) + y_1(x_2^2x_5^2 - x_2^2y_5^2 + 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2)) + \\
& b_{-1,0,2,0,0,0,0,0,-2,0}^r(x_1(x_2^2x_5^2 - x_2^2y_5^2 + 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2) + y_1(-2x_2^2x_5y_5 + \\
& 2x_2x_5^2y_2 - 2x_2y_2y_5^2 + 2x_5y_2^2y_5)) - ib_{-1,0,2,0,0,0,2,0,0,0}^r(x_1(2x_2^2x_4y_4 + 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - \\
& 2x_4y_2^2y_4) + y_1(-x_2^2x_4^2 + x_2^2y_4^2 + 4x_2x_4y_2y_4 + x_4^2y_2^2 - y_2^2y_4^2)) + \\
& b_{-1,0,2,0,0,0,2,0,0,0}^r(x_1(x_2^2x_4^2 - x_2^2y_4^2 - 4x_2x_4y_2y_4 - x_4^2y_2^2 + y_2^2y_4^2) + y_1(2x_2^2x_4y_4 + \\
& 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - 2x_4y_2^2y_4)) - ib_{-1,0,2,0,2,0,0,0,0,0}^r(x_1(2x_2^2x_3y_3 + 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - \\
& 2x_3y_2^2y_3) + y_1(-x_2^2x_3^2 + x_2^2y_3^2 + 4x_2x_3y_2y_3 + x_3^2y_2^2 - y_2^2y_3^2)) + \\
& b_{-1,0,2,0,2,0,0,0,0,0}^r(x_1(x_2^2x_3^2 - x_2^2y_3^2 - 4x_2x_3y_2y_3 - x_3^2y_2^2 + y_2^2y_3^2) + y_1(2x_2^2x_3y_3 + \\
& 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - 2x_3y_2^2y_3)) + b_{-1,1,0,0,0,0,0,0,0,1}^r(x_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) + \\
& ib_{-1,1,0,0,0,0,0,0,0,1}^ry_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) + b_{-1,1,0,0,0,0,0,1,0,0}^rx_1(x_1^2 + y_1^2)(x_4^2 + y_4^2) + \\
& ib_{-1,1,0,0,0,0,0,1,0,0}^ry_1(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{-1,1,0,0,0,1,0,0,0,0}^rx_1(x_1^2 + y_1^2)(x_3^2 + y_3^2) + \\
& ib_{-1,1,0,0,0,1,0,0,0,0}^ry_1(x_1^2 + y_1^2)(x_3^2 + y_3^2) + b_{-1,1,0,1,0,0,0,0,0,0}^rx_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) + \\
& ib_{-1,1,0,1,0,0,0,0,0,0}^ry_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{-1,2,0,0,0,0,0,0,0,0}^rx_1(x_1^2 + y_1^2)^2 + \\
& ib_{-1,2,0,0,0,0,0,0,0,0}^ry_1(x_1^2 + y_1^2)^2 + ib_{-2,0,-1,0,-2,0,0,0,0,0}^r(x_1(2x_2x_3^2y_1 - 2x_2y_1y_3^2 - 4x_3y_1y_2y_3) + \\
& x_2(2x_1^2x_3y_3 - 2x_3y_1^2y_3) + y_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2)) + b_{-2,0,-1,0,-2,0,0,0,0,0}^r(x_1(- \\
& 4x_2x_3y_1y_3 - 2x_3^2y_1y_2 + 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(- \\
& 2x_1^2x_3y_3 + 2x_3y_1^2y_3)) + ib_{-2,0,-1,0,0,0,-2,0,0,0}^r(x_1(2x_2x_4^2y_1 - 2x_2y_1y_4^2 - 4x_4y_1y_2y_4) + \\
& x_2(2x_1^2x_4y_4 - 2x_4y_1^2y_4) + y_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2)) + b_{-2,0,-1,0,0,0,-2,0,0,0}^r(x_1(- \\
& 4x_2x_4y_1y_4 - 2x_4^2y_1y_2 + 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2) + y_2(- \\
& 2x_1^2x_4y_4 + 2x_4y_1^2y_4)) - ib_{-2,0,-1,0,0,0,0,2,0}^r(x_1(-2x_2x_5^2y_1 + 2x_2y_1y_5^2 - 4x_5y_1y_2y_5) + \\
& x_2(2x_1^2x_5y_5 - 2x_5y_1^2y_5) + y_2(-x_1^2x_5^2 + x_1^2y_5^2 + x_5^2y_1^2 - y_1^2y_5^2)) + \\
& b_{-2,0,-1,0,0,0,0,2,0}^r(x_1(4x_2x_5y_1y_5 - 2x_5^2y_1y_2 + 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + \\
& y_1^2y_5^2) + y_2(2x_1^2x_5y_5 - 2x_5y_1^2y_5)) + ib_{-2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 - \\
& 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4) + y_3(x_1^2x_4x_5 - \\
& x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5)) + b_{-2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(-2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 - \\
& 2x_4x_5y_1y_3 + 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 - \\
& x_1^2x_5y_4 + x_4y_1^2y_5 + x_5y_1^2y_4)) - ib_{-2,0,0,0,-1,0,1,0,1,0}^r(x_1(-2x_3x_4x_5y_1 + 2x_3y_1y_4y_5 - \\
& 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 + \\
& x_1^2y_4y_5 + x_4x_5y_1^2 - y_1^2y_4y_5)) + b_{-2,0,0,0,-1,0,1,0,1,0}^r(x_1(2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 + \\
& 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(x_1^2x_4y_5 + x_1^2x_5y_4 - \\
& x_4y_1^2y_5 - x_5y_1^2y_4)) - ib_{-2,0,0,0,1,0,-1,0,1,0}^r(x_1(-2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 + 2x_4y_1y_3y_5 - \\
& 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(x_1^2x_4x_5 + x_1^2y_4y_5 - \\
& x_4x_5y_1^2 - y_1^2y_4y_5)) + b_{-2,0,0,0,1,0,-1,0,1,0}^r(x_1(2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 + \\
& 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 + x_1^2x_5y_4 + \\
& x_4y_1^2y_5 - x_5y_1^2y_4)) - ib_{-2,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + \\
& b_{-2,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) - ib_{-2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(-2x_1x_2y_1 + \\
& y_2(x_1^2 - y_1^2)) + b_{-2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) - ib_{-2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + b_{-2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) -
\end{aligned}$$

$$\begin{aligned}
& ib_{-2,0,1,1,0,0,0,0,0}^r(x_2^2 + y_2^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + b_{-2,0,1,1,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1y_1y_2 + \\
& x_2(x_1^2 - y_1^2)) - ib_{-2,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + b_{-2,1,1,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + b_{-3,0,0,0,-2,0,0,0,0}^r(x_1^3x_3^2 - x_1^3y_3^2 - 6x_1^2x_3y_1y_3 + x_1(- \\
& 3x_3^2y_1^2 + 3y_1^2y_3^2) + 2x_3y_1^3y_3) + ib_{-3,0,0,0,-2,0,0,0,0}^r(2x_1^3x_3y_3 - 6x_1x_3y_1^2y_3 - x_3^2y_1^3 + \\
& y_1^3y_3^2 + y_1(3x_1^2x_3^2 - 3x_1^2y_3^2)) + b_{-3,0,0,0,0,-2,0,0,0}^r(x_1^3x_4^2 - x_1^3y_4^2 - 6x_1^2x_4y_1y_4 + x_1(- \\
& 3x_4^2y_1^2 + 3y_1^2y_4^2) + 2x_4y_1^3y_4) + ib_{-3,0,0,0,0,-2,0,0,0}^r(2x_1^3x_4y_4 - 6x_1x_4y_1^2y_4 - x_4^2y_1^3 + \\
& y_1^3y_4^2 + y_1(3x_1^2x_4^2 - 3x_1^2y_4^2)) + b_{-3,0,0,0,0,0,0,2,0}^r(x_1^3x_5^2 - x_1^3y_5^2 + 6x_1^2x_5y_1y_5 + x_1(- \\
& 3x_5^2y_1^2 + 3y_1^2y_5^2) - 2x_5y_1^3y_5) - ib_{-3,0,0,0,0,0,0,2,0}^r(2x_1^3x_5y_5 - 6x_1x_5y_1^2y_5 + x_5^2y_1^3 - \\
& y_1^3y_5^2 + y_1(-3x_1^2x_5^2 + 3x_1^2y_5^2)) + b_{-3,0,2,0,0,0,0,0,0}^r(x_1^3x_2^2 - x_1^3y_2^2 + 6x_1^2x_2y_1y_2 + x_1(- \\
& 3x_2^2y_1^2 + 3y_1^2y_2^2) - 2x_2y_1^3y_2) - ib_{-3,0,2,0,0,0,0,0,0}^r(2x_1^3x_2y_2 - 6x_1x_2y_1^2y_2 + x_2^2y_1^3 - \\
& y_1^3y_2^2 + y_1(-3x_1^2x_2^2 + 3x_1^2y_2^2)) + ib_{0,0,-1,0,-2,0,0,0,-2,0}^r(x_2(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - \\
& 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_2(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) + \\
& b_{0,0,-1,0,-2,0,0,0,-2,0}^r(x_2(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_2(-2x_3^2x_5y_5 - \\
& 2x_3x_5^2y_3 + 2x_3y_3y_5^2 + 2x_5y_3^2y_5)) - ib_{0,0,-1,0,-2,0,2,0,0}^r(x_2(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_2(-x_3^2x_4^2 + x_3^2y_4^2 - 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) + \\
& b_{0,0,-1,0,-2,0,2,0,0}^r(x_2(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_2(2x_3^2x_4y_4 - \\
& 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) + ib_{0,0,-1,0,0,0,-2,0,-2,0}^r(x_2(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - \\
& 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_2(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + \\
& b_{0,0,-1,0,0,0,-2,0,-2,0}^r(x_2(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_2(-2x_4^2x_5y_5 - \\
& 2x_4x_5^2y_4 + 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) + b_{0,0,-1,0,0,0,0,0,2}^r(x_2(x_5^2 + y_5^2)^2 + ib_{0,0,-1,0,0,0,0,0,2}^r(x_5^2 + \\
& y_5^2)^2 + b_{0,0,-1,0,0,0,0,1,0,1}^r(x_2(x_4^2 + y_4^2)(x_5^2 + y_5^2) + ib_{0,0,-1,0,0,0,0,1,0,1}^r(y_2(x_4^2 + y_4^2)(x_5^2 + y_5^2) + \\
& b_{0,0,-1,0,0,0,0,2,0,0}^r(x_2(x_4^2 + y_4^2)^2 + ib_{0,0,-1,0,0,0,0,2,0,0}^r(y_2(x_4^2 + y_4^2)^2 - ib_{0,0,-1,0,0,0,2,0,2,0}^r(x_2(2x_4^2x_5y_5 + \\
& 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_2(-x_4^2x_5^2 + x_4^2y_5^2 + 4x_4x_5y_4y_5 + x_5^2y_4^2 - \\
& y_4^2y_5^2)) + b_{0,0,-1,0,0,0,2,0,2,0}^r(x_2(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + \\
& y_2(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) + b_{0,0,-1,0,0,1,0,0,0,1}^r(x_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) + \\
& ib_{0,0,-1,0,0,1,0,0,0,1}^r(y_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,-1,0,0,1,0,1,0,0}^r(x_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& ib_{0,0,-1,0,0,1,0,1,0,0}^r(y_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,-1,0,0,2,0,0,0}^r(x_2(x_3^2 + y_3^2)^2 + \\
& ib_{0,0,-1,0,0,2,0,0,0}^r(y_2(x_3^2 + y_3^2)^2 + ib_{0,0,-1,0,2,0,-2,0,0,0}^r(x_2(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_2(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2)) + \\
& b_{0,0,-1,0,2,0,-2,0,0,0}^r(x_2(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_2(-2x_3^2x_4y_4 + \\
& 2x_3x_4^2y_3 - 2x_3y_3y_4^2 + 2x_4y_3^2y_4)) - ib_{0,0,-1,0,2,0,0,0,2,0}^r(x_2(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - \\
& 2x_5y_3^2y_5) + y_2(-x_3^2x_5^2 + x_3^2y_5^2 + 4x_3x_5y_3y_5 + x_5^2y_3^2 - y_3^2y_5^2)) + \\
& b_{0,0,-1,0,2,0,0,0,2,0}^r(x_2(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_2(2x_3^2x_5y_5 + \\
& 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - 2x_5y_3^2y_5)) + b_{0,0,-1,1,0,0,0,0,0,1}^r(x_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) + \\
& ib_{0,0,-1,1,0,0,0,0,0,1}^r(y_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,-1,1,0,0,0,1,0,0}^r(x_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& ib_{0,0,-1,1,0,0,0,1,0,0}^r(y_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{0,0,-1,1,0,1,0,0,0,0}^r(x_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) + \\
& ib_{0,0,-1,1,0,1,0,0,0,0}^r(y_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{0,0,-1,2,0,0,0,0,0,0}^r(x_2(x_2^2 + y_2^2)^2 + \\
& ib_{0,0,-1,2,0,0,0,0,0,0}^r(y_2(x_2^2 + y_2^2)^2 + ib_{0,0,-2,0,-1,0,-1,0,-1,0}^r(x_2(2x_3x_4x_5y_2 - 2x_3y_2y_4y_5 - 2x_4y_2y_3y_5 - \\
& 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 + x_2^2x_5y_4 - x_4y_2^2y_5 - x_5y_2^2y_4) + y_3(x_2^2x_4x_5 - x_2^2y_4y_5 - \\
& x_4x_5y_2^2 + y_2^2y_4y_5)) + b_{0,0,-2,0,-1,0,-1,0,-1,0}^r(x_2(-2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 + \\
& 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 - x_2^2y_4y_5 - x_4x_5y_2^2 + y_2^2y_4y_5) + y_3(-x_2^2x_4y_5 - x_2^2x_5y_4 + \\
& x_4y_2^2y_5 + x_5y_2^2y_4)) - ib_{0,0,-2,0,-1,0,1,0,1,0}^r(x_2(-2x_3x_4x_5y_2 + 2x_3y_2y_4y_5 - 2x_4y_2y_3y_5 -
\end{aligned}$$

$$\begin{aligned}
& 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 + x_2^2x_5y_4 - x_4y_2^2y_5 - x_5y_2^2y_4) + y_3(-x_2^2x_4x_5 + x_2^2y_4y_5 + \\
& x_4x_5y_2^2 - y_2^2y_4y_5)) + b_{0,0,-2,0,-1,0,1,0,1,0}^r(x_2(2x_3x_4y_2y_5 + 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 + \\
& 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 - x_2^2y_4y_5 - x_4x_5y_2^2 + y_2^2y_4y_5) + y_3(x_2^2x_4y_5 + x_2^2x_5y_4 - \\
& x_4y_2^2y_5 - x_5y_2^2y_4)) - ib_{0,0,-2,0,1,0,-1,0,1,0}^r(x_2(-2x_3x_4x_5y_2 - 2x_3y_2y_4y_5 + 2x_4y_2y_3y_5 - \\
& 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4) + y_3(x_2^2x_4x_5 + x_2^2y_4y_5 - \\
& x_4x_5y_2^2 - y_2^2y_4y_5)) + b_{0,0,-2,0,1,0,-1,0,1,0}^r(x_2(2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 + 2x_4x_5y_2y_3 + \\
& 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 + x_2^2y_4y_5 - x_4x_5y_2^2 - y_2^2y_4y_5) + y_3(-x_2^2x_4y_5 + x_2^2x_5y_4 + \\
& x_4y_2^2y_5 - x_5y_2^2y_4)) + b_{0,0,-3,0,-2,0,0,0,0,0}^r(x_2^3x_3^2 - x_2^3y_3^2 - 6x_2^2x_3y_2y_3 + x_2(-3x_3^2y_2^2 + \\
& 3y_2^2y_3^2) + 2x_3y_2^3y_3) + ib_{0,0,-3,0,-2,0,0,0,0,0}^r(2x_2^3x_3y_3 - 6x_2x_3y_2^2y_3 - x_3^2y_2^3 + y_2^3y_3^2 + \\
& y_2(3x_2^2x_3^2 - 3x_2^2y_3^2)) + b_{0,0,-3,0,0,0,-2,0,0,0}^r(x_2^3x_4^2 - x_2^3y_4^2 - 6x_2^2x_4y_2y_4 + x_2(-3x_4^2y_2^2 + \\
& 3y_2^2y_4^2) + 2x_4y_2^3y_4) + ib_{0,0,-3,0,0,0,-2,0,0,0}^r(2x_2^3x_4y_4 - 6x_2x_4y_2^2y_4 - x_4^2y_2^3 + y_2^3y_4^2 + \\
& y_2(3x_2^2x_4^2 - 3x_2^2y_4^2)) + b_{0,0,-3,0,0,0,0,0,2,0}^r(x_2^3x_5^2 - x_2^3y_5^2 + 6x_2^2x_5y_2y_5 + x_2(-3x_5^2y_2^2 + \\
& 3y_2^2y_5^2) - 2x_5y_2^3y_5) - ib_{0,0,-3,0,0,0,0,0,2,0}^r(2x_2^3x_5y_5 - 6x_2x_5y_2^2y_5 + x_5^2y_2^3 - y_2^3y_5^2 + y_2(- \\
& 3x_2^2x_5^2 + 3x_2^2y_5^2)) + b_{0,0,0,0,-1,0,-1,0,-3,0}^r(x_3(x_4x_5^3 - 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3) + y_3(- \\
& 3x_4x_5^2y_5 + x_4y_5^3 - x_5^3y_4 + 3x_5y_4y_5^2)) + ib_{0,0,0,0,-1,0,-1,0,-3,0}^r(x_3(3x_4x_5^2y_5 - x_4y_5^3 + x_5^3y_4 - \\
& 3x_5y_4y_5^2) + y_3(x_4x_5^3 - 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3)) + b_{0,0,0,0,-1,0,-1,0,3,0}^r(x_3(x_4x_5^3 - \\
& 3x_4x_5y_5^2 + 3x_5^2y_4y_5 - y_4y_5^3) + y_3(3x_4x_5^2y_5 - x_4y_5^3 - x_5^3y_4 + 3x_5y_4y_5^2)) - \\
& ib_{0,0,0,0,-1,0,-1,0,3,0}^r(x_3(3x_4x_5^2y_5 - x_4y_5^3 - x_5^3y_4 + 3x_5y_4y_5^2) + y_3(-x_4x_5^3 + 3x_4x_5y_5^2 - \\
& 3x_5^2y_4y_5 + y_4y_5^3)) + b_{0,0,0,0,-1,0,-3,0,1,0}^r(x_3(x_4^3x_5 + 3x_4^2y_4y_5 - 3x_4x_5y_4^2 - y_4^3y_5) + y_3(x_4^3y_5 - \\
& 3x_4^2x_5y_4 - 3x_4y_4^2y_5 + x_5y_4^3)) - ib_{0,0,0,0,-1,0,-3,0,1,0}^r(x_3(x_4^3y_5 - 3x_4^2x_5y_4 - 3x_4y_4^2y_5 + \\
& x_5y_4^3) + y_3(-x_4^3x_5 - 3x_4^2y_4y_5 + 3x_4x_5y_4^2 + y_4^3y_5)) + b_{0,0,0,0,-1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4x_5 + \\
& y_4y_5) + y_3(-x_4y_5 + x_5y_4)) + ib_{0,0,0,0,-1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + \\
& b_{0,0,0,0,-1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) + ib_{0,0,0,0,-1,0,1,1,-1,0}^r(x_4^2 + \\
& y_4^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,0,0,0,-1,0,3,0,1,0}^r(x_3(x_4^3x_5 - 3x_4^2y_4y_5 - 3x_4x_5y_4^2 + \\
& y_4^3y_5) + y_3(x_4^3y_5 + 3x_4^2x_5y_4 - 3x_4y_4^2y_5 - x_5y_4^3)) - ib_{0,0,0,0,-1,0,3,0,1,0}^r(x_3(x_4^3y_5 + \\
& 3x_4^2x_5y_4 - 3x_4y_4^2y_5 - x_5y_4^3) + y_3(-x_4^3x_5 + 3x_4^2y_4y_5 + 3x_4x_5y_4^2 - y_4^3y_5)) + \\
& b_{0,0,0,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) + ib_{0,0,0,0,-1,1,1,0,-1,0}^r(x_3^2 + \\
& y_3^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,0,0,0,-3,0,-1,0,1,0}^r(x_3(-3x_4x_5y_3^2 - 3y_3^2y_4y_5) + \\
& x_4(x_3^3x_5 - y_3^3y_5) + y_3(3x_3^2x_4y_5 - 3x_3^2x_5y_4) + y_4(x_3^3y_5 + x_5y_3^3)) - ib_{0,0,0,0,-3,0,-1,0,1,0}^r(x_3(- \\
& 3x_4y_3^2y_5 + 3x_5y_3^2y_4) + x_4(x_3^3y_5 + x_5y_3^3) + y_3(-3x_3^2x_4x_5 - 3x_3^2y_4y_5) + y_4(-x_3^3x_5 + \\
& y_3^3y_5)) + b_{0,0,0,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) + ib_{0,0,0,0,1,0,-1,0,-1,1}^r(x_5^2 + \\
& y_5^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) + b_{0,0,0,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + \\
& x_5y_4)) + ib_{0,0,0,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) + b_{0,0,0,0,1,0,1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) - ib_{0,0,0,0,1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_3(x_4y_5 + x_5y_4) + \\
& y_3(x_4x_5 - y_4y_5)) + b_{0,0,0,0,1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) - \\
& ib_{0,0,0,0,1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) + b_{0,0,0,0,1,1,-1,0,-1,0}^r(x_3^2 + \\
& y_3^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) + ib_{0,0,0,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4y_5 + x_5y_4) + y_3(- \\
& x_4x_5 + y_4y_5)) + b_{0,0,0,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) - \\
& ib_{0,0,0,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) + b_{0,0,0,0,3,0,-1,0,1,0}^r(x_3(-3x_4x_5y_3^2 - \\
& 3y_3^2y_4y_5) + x_4(x_3^3x_5 + y_3^3y_5) + y_3(-3x_3^2x_4y_5 + 3x_3^2x_5y_4) + y_4(x_3^3y_5 - x_5y_3^3)) - \\
& ib_{0,0,0,0,3,0,-1,0,1,0}^r(x_3(-3x_4y_3^2y_5 + 3x_5y_3^2y_4) + x_4(x_3^3y_5 - x_5y_3^3) + y_3(3x_3^2x_4x_5 + 3x_3^2y_4y_5) + \\
& y_4(-x_3^3x_5 - y_3^3y_5)) + b_{0,0,0,0,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) +
\end{aligned}$$

$$\begin{aligned}
& ib_{0,0,0,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,0,0,1,1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) + ib_{0,0,0,1,1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) + b_{0,0,0,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) - \\
& ib_{0,0,0,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) + ib_{0,0,1,0,-2,0,-2,0,0,0}^r(x_2(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - 2x_4y_3^2y_4) + y_2(-x_3^2x_4^2 + x_3^2y_4^2 + 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) + b_{0,0,1,0,-2,0,-2,0,0,0}^r(x_2(x_3^2x_4^2 - x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_2(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) - ib_{0,0,1,0,-2,0,0,0,2,0}^r(x_2(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_2(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) + b_{0,0,1,0,-2,0,0,0,2,0}^r(x_2(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_2(-2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 + 2x_5y_3^2y_5)) + ib_{0,0,1,0,-4,0,0,0,0,0}^r(x_2(4x_3^3y_3 - 4x_3y_3^3) + y_2(-x_3^4 + 6x_3^2y_3^2 - y_3^4)) + b_{0,0,1,0,-4,0,0,0,0,0}^r(x_2(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_2(4x_3^3y_3 - 4x_3y_3^3)) - \\
& ib_{0,0,1,0,0,0,-2,0,2,0}^r(x_2(2x_4^2x_5y_5 - 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_2(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + b_{0,0,1,0,0,0,-2,0,2,0}^r(x_2(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_2(-2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) + \\
& ib_{0,0,1,0,0,0,-4,0,0,0}^r(x_2(4x_4^3y_4 - 4x_4y_4^3) + y_2(-x_4^4 + 6x_4^2y_4^2 - y_4^4)) + b_{0,0,1,0,0,0,-4,0,0,0}^r(x_2(x_4^4 - 6x_4^2y_4^2 + y_4^4) + y_2(4x_4^3y_4 - 4x_4y_4^3)) + b_{0,0,1,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) + \\
& ib_{0,0,1,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) - ib_{0,0,1,0,0,0,0,0,4,0}^r(x_2(4x_3^3y_5 - 4x_5y_3^3) + y_2(x_5^4 - 6x_5^2y_5^2 + y_5^4)) + b_{0,0,1,0,0,0,0,0,4,0}^r(x_2(x_5^4 - 6x_5^2y_5^2 + y_5^4) + y_2(-4x_5^3y_5 + 4x_5y_5^3)) + \\
& b_{0,0,1,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) + ib_{0,0,1,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) + b_{0,0,1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) - ib_{0,0,1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) + b_{0,0,1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) - \\
& ib_{0,0,1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) + b_{0,0,1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) + ib_{0,0,1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) + b_{0,0,1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) - ib_{0,0,1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) + \\
& b_{0,0,1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_3^2 - y_3^2) - 2x_3y_2y_3) - ib_{0,0,1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) + b_{0,0,1,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2(x_3^2 - y_3^2) - 2x_3y_2y_3) - ib_{0,0,1,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) + b_{0,0,1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2(x_3^2 - y_3^2) - 2x_3y_2y_3) - \\
& ib_{0,0,1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) + b_{0,0,1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) + ib_{0,0,1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) + b_{0,0,1,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) - ib_{0,0,1,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) + \\
& b_{0,0,1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_3^2 - y_3^2) - 2x_3y_2y_3) - ib_{0,0,1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) - ib_{0,0,2,0,-1,0,-1,0,1,0}^r(x_2(2x_3x_4x_5y_2 + 2x_3y_2y_4y_5 + 2x_4y_2y_3y_5 - 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4) + y_3(-x_2^2x_4x_5 - x_2^2y_4y_5 + x_4x_5y_2^2 + y_2^2y_4y_5)) + b_{0,0,2,0,-1,0,-1,0,1,0}^r(x_2(-2x_3x_4y_2y_5 + 2x_3x_5y_2y_4 + 2x_4x_5y_2y_3 + 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 + x_2^2y_4y_5 - x_4x_5y_2^2 - y_2^2y_4y_5) + y_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4)) + ib_{0,0,2,0,1,0,1,0,-1,0}^r(x_2(-2x_3x_4x_5y_2 - 2x_3y_2y_4y_5 - 2x_4y_2y_3y_5 + 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4) + y_3(-x_2^2x_4x_5 - x_2^2y_4y_5 + x_4x_5y_2^2 + y_2^2y_4y_5)) + b_{0,0,2,0,1,0,1,0,-1,0}^r(x_2(2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 - 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 + x_2^2y_4y_5 - x_4x_5y_2^2 - y_2^2y_4y_5) + y_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4)) + b_{0,0,3,0,-2,0,0,0,0,0}^r(x_2^3x_3^2 - x_2^3y_3^2 + 6x_2^2x_3y_2y_3 + x_2(-3x_2^2y_2^2 + 3y_2^2y_3^2) - 2x_3y_2^3y_3) + ib_{0,0,3,0,-2,0,0,0,0,0}^r(2x_2^3x_3y_3 - 6x_2x_3y_2^2y_3 + x_3^3y_2^3 - y_2^3y_3^2 + y_2(-3x_2^2x_3^2 + 3x_2^2y_3^2)) + b_{0,0,3,0,0,0,-2,0,0,0}^r(x_2^3x_4^2 - x_2^3y_4^2 + 6x_2^2x_4y_2y_4 + x_2(-3x_4^2y_2^2 + 3y_2^2y_4^2) -
\end{aligned}$$



$$\begin{aligned}
& 2x_4y_2^3y_4) + ib_{0,0,3,0,0,0,-2,0,0,0}^r(2x_2^3x_4y_4 - 6x_2x_4y_2^2y_4 + x_4^2y_2^3 - y_2^3y_4^2 + y_2(-3x_2^2x_4^2 + \\
& 3x_2^2y_4^2)) + b_{0,0,3,0,0,0,0,0,2,0}^r(x_2^3x_5^2 - x_2^3y_5^2 - 6x_2^2x_5y_2y_5 + x_2(-3x_5^2y_2^2 + 3y_2^2y_5^2) + \\
& 2x_5y_3^2y_5) - ib_{0,0,3,0,0,0,0,0,2,0}^r(2x_2^3x_5y_5 - 6x_2x_5y_2^2y_5 - x_5^2y_2^3 + y_2^3y_5^2 + y_2(3x_2^2x_5^2 - \\
& 3x_2^2y_5^2)) + b_{0,0,5,0,0,0,0,0,0,0}^r(x_2^4 - 10x_2^2y_2^2 + 5y_2^4) - ib_{0,0,5,0,0,0,0,0,0,0}^r(5x_2^4 - 10x_2^2y_2^2 + \\
& y_2^4) + b_{0,1,-1,0,0,0,0,0,0,1}^r(x_2^2 + y_1^2)(x_5^2 + y_5^2) + ib_{0,1,-1,0,0,0,0,0,0,1}^ry_2(x_1^2 + y_1^2)(x_5^2 + y_5^2) + \\
& b_{0,1,-1,0,0,0,0,1,0,0}^rx_2(x_1^2 + y_1^2)(x_4^2 + y_4^2) + ib_{0,1,-1,0,0,0,0,1,0,0}^ry_2(x_1^2 + y_1^2)(x_4^2 + y_4^2) + \\
& b_{0,1,-1,0,0,1,0,0,0,0}^rx_2(x_1^2 + y_1^2)(x_3^2 + y_3^2) + ib_{0,1,-1,0,0,1,0,0,0,0}^ry_2(x_1^2 + y_1^2)(x_3^2 + y_3^2) + \\
& b_{0,1,-1,1,0,0,0,0,0,0}^rx_2(x_1^2 + y_1^2)(x_2^2 + y_2^2) + ib_{0,1,-1,1,0,0,0,0,0,0}^ry_2(x_1^2 + y_1^2)(x_2^2 + y_2^2) + \\
& b_{0,1,0,0,-1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) + ib_{0,1,0,0,-1,0,1,0,-1,0}^r(x_1^2 + \\
& y_1^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,1,0,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + \\
& x_5y_4)) + ib_{0,1,0,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) + b_{0,1,0,0,1,0,1,0,1,0}^r(x_1^2 + \\
& y_1^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) - ib_{0,1,0,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_3(x_4y_5 + x_5y_4) + \\
& y_3(x_4x_5 - y_4y_5)) + b_{0,1,1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) + ib_{0,1,1,0,0,0,0,0,-2,0}^r(x_1^2 + \\
& y_1^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) + b_{0,1,1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) - \\
& ib_{0,1,1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) + b_{0,1,1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_3^2 - y_3^2) - \\
& 2x_3y_2y_3) - ib_{0,1,1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) + b_{0,2,-1,0,0,0,0,0,0,0}^rx_2(x_1^2 + y_1^2)^2 + \\
& ib_{0,2,-1,0,0,0,0,0,0,0}^ry_2(x_1^2 + y_1^2)^2 + b_{1,0,-1,0,-1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + \\
& x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) + \\
& ib_{1,0,-1,0,-1,0,1,0,-1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) + b_{1,0,-1,0,1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + \\
& x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4)) + \\
& ib_{1,0,-1,0,1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + \\
& x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5)) + b_{1,0,-1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) - \\
& ib_{1,0,-1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + \\
& x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) + b_{1,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) + \\
& ib_{1,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2^2 - \\
& y_2^2) + 2x_2y_1y_2) + ib_{1,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) + ib_{1,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + \\
& b_{1,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) + ib_{1,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2y_2 + y_1(- \\
& x_2^2 + y_2^2)) + ib_{1,0,0,0,-2,0,-2,0,0,0}^r(x_1(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - 2x_4y_3^2y_4) + y_1(- \\
& x_3^2x_4^2 + x_3^2y_4^2 + 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) + b_{1,0,0,0,-2,0,-2,0,0,0}^r(x_1(x_3^2x_4^2 - \\
& x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_1(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4)) - ib_{1,0,0,0,-2,0,0,0,2,0}^r(x_1(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + \\
& y_1(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) + b_{1,0,0,0,-2,0,0,0,2,0}^r(x_1(x_3^2x_5^2 - \\
& x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_1(-2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 + \\
& 2x_5y_3^2y_5)) + ib_{1,0,0,0,-4,0,0,0,0,0}^r(x_1(4x_3^3y_3 - 4x_3y_3^3) + y_1(-x_3^4 + 6x_3^2y_3^2 - y_3^4)) +
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,0,0,-4,0,0,0,0,0}^r(x_1(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_1(4x_3^3y_3 - 4x_3y_3^3)) - \\
& ib_{1,0,0,0,0,0,-2,0,2,0}^r(x_1(2x_4^2x_5y_5 - 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_1(x_4^2x_5^2 - x_4^2y_5^2 + \\
& 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + b_{1,0,0,0,0,0,-2,0,2,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - \\
& x_5^2y_4^2 + y_4^2y_5^2) + y_1(-2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) + \\
& ib_{1,0,0,0,0,0,-4,0,0,0}^r(x_1(4x_4^3y_4 - 4x_4y_4^3) + y_1(-x_4^4 + 6x_4^2y_4^2 - y_4^4)) + b_{1,0,0,0,0,0,-4,0,0,0}^r(x_1(x_4^4 - \\
& 6x_4^2y_4^2 + y_4^4) + y_1(4x_4^3y_4 - 4x_4y_4^3)) + b_{1,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_5^2 - y_5^2) + 2x_5y_1y_5) + \\
& ib_{1,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) - ib_{1,0,0,0,0,0,0,0,4,0}^r(x_1(4x_5^3y_5 - 4x_5y_5^3) + \\
& y_1(x_5^4 - 6x_5^2y_5^2 + y_5^4)) + b_{1,0,0,0,0,0,0,0,4,0}^r(x_1(x_5^4 - 6x_5^2y_5^2 + y_5^4) + y_1(-4x_5^3y_5 + 4x_5y_5^3)) + \\
& b_{1,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1(x_5^2 - y_5^2) + 2x_5y_1y_5) + ib_{1,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(2x_1x_5y_5 + y_1(- \\
& x_5^2 + y_5^2)) + b_{1,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) - ib_{1,0,0,0,0,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + b_{1,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) - \\
& ib_{1,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + b_{1,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1(x_5^2 - y_5^2) + \\
& 2x_5y_1y_5) + ib_{1,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) + b_{1,0,0,0,0,1,2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) - ib_{1,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + \\
& b_{1,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) - ib_{1,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_3y_3 + \\
& y_1(x_3^2 - y_3^2)) + b_{1,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) - ib_{1,0,0,0,2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) + b_{1,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) - \\
& ib_{1,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) + b_{1,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1(x_5^2 - y_5^2) + \\
& 2x_5y_1y_5) + ib_{1,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) + b_{1,0,0,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) - ib_{1,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + \\
& b_{1,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) - ib_{1,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_3y_3 + \\
& y_1(x_3^2 - y_3^2)) + b_{1,0,1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - \\
& x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 + \\
& x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) - ib_{1,0,1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4y_5 - \\
& x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + \\
& y_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + \\
& y_2y_3y_4y_5)) + b_{1,0,1,0,1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) + ib_{1,0,1,0,1,0,1,0,-1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 - \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) + \\
& ib_{1,0,2,0,-2,0,0,0,0,0}^r(x_1(2x_2^2x_3y_3 - 2x_2x_3^2y_2 + 2x_2y_2y_3^2 - 2x_3y_2^2y_3) + y_1(-x_2^2x_3^2 + x_2^2y_3^2 - \\
& 4x_2x_3y_2y_3 + x_3^2y_2^2 - y_2^2y_3^2)) + b_{1,0,2,0,-2,0,0,0,0,0}^r(x_1(x_2^2x_3^2 - x_2^2y_3^2 + 4x_2x_3y_2y_3 - \\
& x_3^2y_2^2 + y_2^2y_3^2) + y_1(2x_2^2x_3y_3 - 2x_2x_3^2y_2 + 2x_2y_2y_3^2 - 2x_3y_2^2y_3)) + \\
& ib_{1,0,2,0,0,0,-2,0,0,0}^r(x_1(2x_2^2x_4y_4 - 2x_2x_4^2y_2 + 2x_2y_2y_4^2 - 2x_4y_2^2y_4) + y_1(-x_2^2x_4^2 + x_2^2y_4^2 - \\
& 4x_2x_4y_2y_4 + x_4^2y_2^2 - y_2^2y_4^2)) + b_{1,0,2,0,0,0,-2,0,0,0}^r(x_1(x_2^2x_4^2 - x_2^2y_4^2 + 4x_2x_4y_2y_4 - \\
& x_4^2y_2^2 + y_2^2y_4^2) + y_1(2x_2^2x_4y_4 - 2x_2x_4^2y_2 + 2x_2y_2y_4^2 - 2x_4y_2^2y_4)) - \\
& ib_{1,0,2,0,0,0,0,2,0}^r(x_1(2x_2^2x_5y_5 + 2x_2x_5^2y_2 - 2x_2y_2y_5^2 - 2x_5y_2^2y_5) + y_1(x_2^2x_5^2 - x_2^2y_5^2 - \\
& 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2)) + b_{1,0,2,0,0,0,0,2,0}^r(x_1(x_2^2x_5^2 - x_2^2y_5^2 - 4x_2x_5y_2y_5 - \\
& x_5^2y_2^2 + y_2^2y_5^2) + y_1(-2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 + 2x_5y_2^2y_5)) - \\
& ib_{1,0,4,0,0,0,0,0,0}^r(x_1(4x_2^3y_2 - 4x_2y_2^3) + y_1(x_2^4 - 6x_2^2y_2^2 + y_2^4)) + b_{1,0,4,0,0,0,0,0,0}^r(x_1(x_2^4 - \\
& 6x_2^2y_2^2 + y_2^4) + y_1(-4x_2^3y_2 + 4x_2y_2^3)) + b_{1,1,-2,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) + \\
& ib_{1,1,-2,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_5^2 -
\end{aligned}$$

$$\begin{aligned}
& y_5^2) + 2x_5y_1y_5) + ib_{1,1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) + b_{1,1,0,0,0,0,2,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) - ib_{1,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + \\
& b_{1,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) - ib_{1,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_3y_3 + \\
& y_1(x_3^2 - y_3^2)) + ib_{2,0,-1,0,0,0,0,0,-2,0}^r(x_1(-2x_2x_5^2y_1 + 2x_2y_1y_5^2 + 4x_5y_1y_2y_5) + x_2(2x_1^2x_5y_5 - \\
& 2x_5y_1^2y_5) + y_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2)) + b_{2,0,-1,0,0,0,0,0,-2,0}^r(x_1(4x_2x_5y_1y_5 + \\
& 2x_5^2y_1y_2 - 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2) + y_2(-2x_1^2x_5y_5 + \\
& 2x_5y_1^2y_5)) - ib_{2,0,-1,0,0,0,2,0,0,0}^r(x_1(2x_2x_4^2y_1 - 2x_2y_1y_4^2 + 4x_4y_1y_2y_4) + x_2(2x_1^2x_4y_4 - \\
& 2x_4y_1^2y_4) + y_2(-x_1^2x_4^2 + x_1^2y_4^2 + x_4^2y_1^2 - y_1^2y_4^2)) + b_{2,0,-1,0,0,0,2,0,0,0}^r(x_1(-4x_2x_4y_1y_4 + \\
& 2x_4^2y_1y_2 - 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2) + y_2(2x_1^2x_4y_4 - \\
& 2x_4y_1^2y_4)) - ib_{2,0,-1,0,2,0,0,0,0,0}^r(x_1(2x_2x_3^2y_1 - 2x_2y_1y_3^2 + 4x_3y_1y_2y_3) + x_2(2x_1^2x_3y_3 - \\
& 2x_3y_1^2y_3) + y_2(-x_1^2x_3^2 + x_1^2y_3^2 + x_3^2y_1^2 - y_1^2y_3^2)) + b_{2,0,-1,0,2,0,0,0,0,0}^r(x_1(-4x_2x_3y_1y_3 + \\
& 2x_3^2y_1y_2 - 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(2x_1^2x_3y_3 - \\
& 2x_3y_1^2y_3)) + b_{2,0,-3,0,0,0,0,0,0,0}^r(x_1^2x_2^3 + x_1(6x_2^2y_1y_2 - 2y_1y_2^3) - x_2^3y_1^2 + x_2(-3x_1^2y_2^2 + \\
& 3y_1^2y_2^2)) + ib_{2,0,-3,0,0,0,0,0,0,0}^r(-x_1^2y_2^3 + x_1(-2x_2^3y_1 + 6x_2y_1y_2^2) + y_1^2y_2^3 + y_2(3x_1^2x_2^2 - \\
& 3x_2^2y_1^2)) - ib_{2,0,0,0,-1,0,-1,0,1,0}^r(x_1(2x_3x_4x_5y_1 + 2x_3y_1y_4y_5 + 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + \\
& x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 - x_1^2y_4y_5 + x_4x_5y_1^2 + \\
& y_1^2y_4y_5)) + b_{2,0,0,0,-1,0,-1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 + 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + \\
& x_5y_1^2y_4)) + ib_{2,0,0,0,1,0,1,0,-1,0}^r(x_1(-2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 - 2x_4y_1y_3y_5 + 2x_5y_1y_3y_4) + \\
& x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 - x_1^2y_4y_5 + x_4x_5y_1^2 + \\
& y_1^2y_4y_5)) + b_{2,0,0,0,1,0,1,0,-1,0}^r(x_1(2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + \\
& x_5y_1^2y_4)) + ib_{2,0,1,0,-2,0,0,0,0,0}^r(x_1(-2x_2x_3^2y_1 + 2x_2y_1y_3^2 - 4x_3y_1y_2y_3) + x_2(2x_1^2x_3y_3 - \\
& 2x_3y_1^2y_3) + y_2(-x_1^2x_3^2 + x_1^2y_3^2 + x_3^2y_1^2 - y_1^2y_3^2)) + b_{2,0,1,0,-2,0,0,0,0,0}^r(x_1(4x_2x_3y_1y_3 - \\
& 2x_3^2y_1y_2 + 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(2x_1^2x_3y_3 - \\
& 2x_3y_1^2y_3)) + ib_{2,0,1,0,0,0,-2,0,0,0}^r(x_1(-2x_2x_4^2y_1 + 2x_2y_1y_4^2 - 4x_4y_1y_2y_4) + x_2(2x_1^2x_4y_4 - \\
& 2x_4y_1^2y_4) + y_2(-x_1^2x_4^2 + x_1^2y_4^2 + x_4^2y_1^2 - y_1^2y_4^2)) + b_{2,0,1,0,0,0,-2,0,0,0}^r(x_1(4x_2x_4y_1y_4 - \\
& 2x_4^2y_1y_2 + 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2) + y_2(2x_1^2x_4y_4 - \\
& 2x_4y_1^2y_4)) - ib_{2,0,1,0,0,0,0,0,2,0}^r(x_1(2x_2x_5^2y_1 - 2x_2y_1y_5^2 - 4x_5y_1y_2y_5) + x_2(2x_1^2x_5y_5 - \\
& 2x_5y_1^2y_5) + y_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2)) + b_{2,0,1,0,0,0,0,0,2,0}^r(x_1(-4x_2x_5y_1y_5 - \\
& 2x_5^2y_1y_2 + 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2) + y_2(-2x_1^2x_5y_5 + \\
& 2x_5y_1^2y_5)) + b_{2,0,3,0,0,0,0,0,0,0}^r(x_1^2x_2^3 + x_1(-6x_2^2y_1y_2 + 2y_1y_2^3) - x_2^3y_1^2 + x_2(-3x_1^2y_2^2 + \\
& 3y_1^2y_2^2)) - ib_{2,0,3,0,0,0,0,0,0,0}^r(-x_1^2y_2^3 + x_1(2x_2^3y_1 - 6x_2y_1y_2^2) + y_1^2y_2^3 + y_2(3x_1^2x_2^2 - \\
& 3x_2^2y_1^2)) + b_{3,0,0,0,-2,0,0,0,0,0}^r(x_1^3x_2^3 - x_1^3y_2^3 + 6x_1^2x_3y_1y_3 + x_1(-3x_2^3y_1^2 + 3y_1^2y_2^3) - \\
& 2x_3y_1^3y_3) + ib_{3,0,0,0,-2,0,0,0,0,0}^r(2x_1^3x_3y_3 - 6x_1x_3y_1^2y_3 + x_3^3y_1^2 - y_1^3y_3^2 + y_1(-3x_1^2x_3^2 + \\
& 3x_1^2y_3^2)) + b_{3,0,0,0,0,0,-2,0,0,0}^r(x_1^3x_4^2 - x_1^3y_4^2 + 6x_1^2x_4y_1y_4 + x_1(-3x_4^2y_1^2 + 3y_1^2y_4^2) - \\
& 2x_4y_1^3y_4) + ib_{3,0,0,0,0,0,-2,0,0,0}^r(2x_1^3x_4y_4 - 6x_1x_4y_1^2y_4 + x_4^2y_1^3 - y_1^3y_4^2 + y_1(-3x_1^2x_4^2 + \\
& 3x_1^2y_4^2)) + b_{3,0,0,0,0,0,0,0,2,0}^r(x_1^3x_5^2 - x_1^3y_5^2 - 6x_1^2x_5y_1y_5 + x_1(-3x_5^2y_1^2 + 3y_1^2y_5^2) + \\
& 2x_5y_1^3y_5) - ib_{3,0,0,0,0,0,0,0,2,0}^r(2x_1^3x_5y_5 - 6x_1x_5y_1^2y_5 - x_5^2y_1^3 + y_1^3y_5^2 + y_1(3x_1^2x_5^2 - \\
& 3x_1^2y_5^2)) + b_{3,0,2,0,0,0,0,0,0,0}^r(x_1^3x_2^2 - x_1^3y_2^2 - 6x_1^2x_2y_1y_2 + x_1(-3x_2^2y_1^2 + 3y_1^2y_2^2) + \\
& 2x_2y_1^3y_2) - ib_{3,0,2,0,0,0,0,0,0,0}^r(2x_1^3x_2y_2 - 6x_1x_2y_1^2y_2 - x_2^2y_1^3 + y_1^3y_2^2 + y_1(3x_1^2x_2^2 - \\
& 3x_1^2y_2^2)) - ib_{4,0,1,0,0,0,0,0,0,0}^r(4x_1^3x_2y_1 - 4x_1x_2y_1^3 + y_2(x_1^4 - 6x_1^2y_1^2 + y_1^4)) + b_{4,0,1,0,0,0,0,0,0,0}^r(-
\end{aligned}$$

$$4x_1^3y_1y_2 + 4x_1y_1^3y_2 + x_2(x_1^4 - 6x_1^2y_1^2 + y_1^4)) + b_{5,0,0,0,0,0,0,0,0}^r x_1(x_1^4 - 10x_1^2y_1^2 + 5y_1^4) - ib_{5,0,0,0,0,0,0,0,0}^r y_1(5x_1^4 - 10x_1^2y_1^2 + y_1^4)$$

### 3.7 Order: 6

Number of fitting parameters:  $H_{++}$ : 234,  $H_{+-}$ : 438.

**Polar e-coordinates:**

$$\begin{aligned} H_{++}^{(6)} = & a_{0,0,0,0,0,0,0,0,0,3}^r \rho_5^6 + a_{0,0,0,0,0,0,0,0,6,0}^r \rho_5^6 \cos(6\phi_5) + a_{0,0,0,0,0,0,0,1,0,2}^r \rho_4^2 \rho_5^4 + \\ & a_{0,0,0,0,0,0,0,2,0,1}^r \rho_4^4 \rho_5^2 + a_{0,0,0,0,0,0,0,3,0,0}^r \rho_4^6 + a_{0,0,0,0,0,0,2,0,-4,0}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 - 4\phi_5) + \\ & a_{0,0,0,0,0,0,2,0,2,1}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,0,2,1,2,0}^r \rho_4^4 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + \\ & a_{0,0,0,0,0,0,4,0,-2,0}^r \rho_4^4 \rho_5^2 \cos(4\phi_4 - 2\phi_5) + a_{0,0,0,0,0,0,6,0,0,0}^r \rho_4^6 \cos(6\phi_4) + \\ & a_{0,0,0,0,0,1,0,0,0,2}^r \rho_3^2 \rho_4^4 \rho_5^2 + a_{0,0,0,0,1,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 + a_{0,0,0,0,1,0,2,0,0}^r \rho_3^2 \rho_4^4 + \\ & a_{0,0,0,0,0,1,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,2,0,0,0,1}^r \rho_3^4 \rho_5^2 + \\ & a_{0,0,0,0,0,2,0,1,0,0}^r \rho_3^4 \rho_4^2 + a_{0,0,0,0,0,3,0,0,0,0}^r \rho_3^6 + a_{0,0,0,0,2,0,-2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 - \\ & 2\phi_4) + a_{0,0,0,0,2,0,-2,1,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,0,2,0,0,0,-4,0}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 - 4\phi_5) + \\ & a_{0,0,0,0,2,0,0,0,2,1}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 + 2\phi_5) + a_{0,0,0,0,2,0,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + \\ & a_{0,0,0,0,2,0,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_4 - 2\phi_5) + a_{0,0,0,0,2,0,4,0,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 + \\ & 4\phi_4) + a_{0,0,0,0,2,1,-2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,0,2,1,0,0,2,0}^r \rho_3^4 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + \\ & a_{0,0,0,0,4,0,0,0,-2,0}^r \rho_4^4 \rho_5^2 \cos(4\phi_3 - 2\phi_5) + a_{0,0,0,0,4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(4\phi_3 + 2\phi_4) + \\ & a_{0,0,0,0,6,0,0,0,0,0}^r \rho_3^6 \cos(6\phi_3) + a_{0,0,0,0,1,0,0,0,0,2}^r \rho_2^2 \rho_5^4 + a_{0,0,0,0,1,0,0,0,1,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 + \\ & a_{0,0,0,0,1,0,0,0,2,0,0}^r \rho_2^2 \rho_4^4 + a_{0,0,0,0,1,0,0,2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + \\ & a_{0,0,0,0,1,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 + a_{0,0,0,0,1,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 + a_{0,0,0,0,1,0,2,0,0,0}^r \rho_2^2 \rho_3^4 + \\ & a_{0,0,0,0,1,2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,0,1,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 + \\ & 2\phi_5) + a_{0,0,0,0,2,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 + a_{0,0,0,0,2,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 + a_{0,0,0,0,2,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 + \\ & a_{0,0,0,0,3,0,0,0,0,0,0}^r \rho_2^6 + a_{0,0,1,0,-1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_2 + \phi_3 + \phi_4 + 3\phi_5) + \\ & a_{0,0,1,0,-1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 - \phi_4 + 3\phi_5) + \\ & a_{0,0,1,0,-1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 - 3\phi_4 + \phi_5) + \\ & a_{0,0,1,0,-1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\ & a_{0,0,1,0,-1,0,1,1,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\ & a_{0,0,1,0,-1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + 3\phi_4 + \phi_5) + \\ & a_{0,0,1,0,-1,1,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\ & a_{0,0,1,0,-3,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - 3\phi_3 - \phi_4 + \phi_5) + \\ & a_{0,0,1,0,1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\ & a_{0,0,1,0,1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\ & a_{0,0,1,0,1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\ & a_{0,0,1,0,1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\ & a_{0,0,1,0,1,1,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\ & a_{0,0,1,0,1,1,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\ & a_{0,0,1,0,3,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + 3\phi_3 - \phi_4 + \phi_5) + \\ & a_{0,0,1,1,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\ & a_{0,0,1,1,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\ & a_{0,0,1,1,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{0,0,2,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(- \end{aligned}$$

$$\begin{aligned}
& 2\phi_2 + 2\phi_3 + 2\phi_4) + a_{0,0,2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_3 + 2\phi_5) + \\
& a_{0,0,2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 - 4\phi_3) + a_{0,0,2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 - 2\phi_4 + \\
& 2\phi_5) + a_{0,0,2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 - 4\phi_4) + a_{0,0,2,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 - 2\phi_5) + \\
& a_{0,0,2,0,0,0,0,0,4,0}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 + 4\phi_5) + a_{0,0,2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + \\
& a_{0,0,2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 + 2\phi_4) + \\
& a_{0,0,2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,0,2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + \\
& 2\phi_4) + a_{0,0,2,0,2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,0,2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + 2\phi_3) + a_{0,0,2,0,2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,0,2,1,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,0,2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_2 + 2\phi_4) + \\
& a_{0,0,2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + a_{0,0,3,0,-1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 - \phi_3 - \phi_4 + \\
& \phi_5) + a_{0,0,3,0,1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,4,0,-2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(4\phi_2 - 2\phi_3) + a_{0,0,4,0,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(4\phi_2 - 2\phi_4) + \\
& a_{0,0,4,0,0,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \cos(4\phi_2 + 2\phi_5) + a_{0,0,6,0,0,0,0,0,0,0}^r \rho_2^6 \cos(6\phi_2) + \\
& a_{0,1,0,0,0,0,0,0,0,2}^r \rho_1^2 \rho_5^4 + a_{0,1,0,0,0,0,0,1,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 + a_{0,1,0,0,0,0,2,0,0}^r \rho_1^2 \rho_4^4 + \\
& a_{0,1,0,0,0,0,2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,1,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 + \\
& a_{0,1,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 + a_{0,1,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^4 + \\
& a_{0,1,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,1,0,0,2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 + \\
& 2\phi_5) + a_{0,1,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 + a_{0,1,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 + \\
& a_{0,1,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 + a_{0,1,0,2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 + \\
& a_{0,1,1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,1,1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,1,1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,1,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,1,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_2 + \\
& 2\phi_4) + a_{0,1,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + a_{0,2,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 + \\
& a_{0,2,0,0,0,0,1,0,0,0}^r \rho_1^4 \rho_4^2 + a_{0,2,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 + a_{0,2,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 + \\
& a_{0,3,0,0,0,0,0,0,0,0}^r \rho_1^6 + a_{1,0,-1,0,-2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5) + \\
& a_{1,0,-1,0,-2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 - 2\phi_3 + 2\phi_4) + \\
& a_{1,0,-1,0,0,0,-2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_4 + 2\phi_5) + \\
& a_{1,0,-1,0,0,0,0,0,2}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,0,0,1,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,0,0,2,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,0,2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + \\
& 2\phi_4 + 2\phi_5) + a_{1,0,-1,0,0,1,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,1,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_4) + \\
& a_{1,0,-1,0,2,0,0,2,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_5) + \\
& a_{1,0,-1,1,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,1,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,1,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,2,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,-2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,-2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,-3,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(-\phi_1 + 3\phi_2 + 2\phi_3) + a_{1,0,-3,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(-\phi_1 + \\
& 3\phi_2 + 2\phi_4) + a_{1,0,-3,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - 3\phi_2 + 2\phi_5) + \\
& a_{1,0,0,0,-1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_1 + \phi_3 + \phi_4 + 3\phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{1,0,0,0,-1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 - \phi_4 + 3\phi_5) + \\
& a_{1,0,0,0,-1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 - 3\phi_4 + \phi_5) + \\
& a_{1,0,0,0,-1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + 3\phi_4 + \phi_5) + \\
& a_{1,0,0,0,-1,1,1,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-3,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,0,-1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,1,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,1,1,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,3,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,0,1,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,1,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,1,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,1,0,-2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_4) + \\
& a_{1,0,1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_5) + \\
& a_{1,0,1,0,-4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \phi_2 - 4\phi_3) + a_{1,0,1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \\
& \phi_2 - 2\phi_4 + 2\phi_5) + a_{1,0,1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \phi_2 - 4\phi_4) + \\
& a_{1,0,1,0,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 - 2\phi_5) + a_{1,0,1,0,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 + \\
& 4\phi_5) + a_{1,0,1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \\
& \phi_2 + 2\phi_4) + a_{1,0,1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + \\
& a_{1,0,1,0,2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + \\
& a_{1,0,1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,0,1,0,2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \\
& \phi_2 + 2\phi_3) + a_{1,0,1,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,1,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_3) + a_{1,0,2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,3,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + 3\phi_2 - 2\phi_3) + a_{1,0,3,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \\
& 3\phi_2 - 2\phi_4) + a_{1,0,3,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + 3\phi_2 + 2\phi_5) + \\
& a_{1,0,5,0,0,0,0,0,0,0}^r \rho_1 \rho_5^5 \cos(\phi_1 + 5\phi_2) + a_{1,1,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,1,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,1,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,1,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(\phi_1 - \phi_2) + a_{1,1,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \\
& \phi_5) + a_{1,1,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,1,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,1,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + a_{1,1,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_4) + a_{1,1,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,2,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(\phi_1 - \phi_2) + \\
& a_{2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,-2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 - 2\phi_2) + a_{2,0,-2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 - \\
& 2\phi_2) + a_{2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 - 2\phi_2) + a_{2,0,-2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 - \\
& 2\phi_2) + a_{2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(-2\phi_1 + 2\phi_3 + 2\phi_4) + \\
& a_{2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_3 + 2\phi_5) + a_{2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 - \\
& 4\phi_3) + a_{2,0,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_4 + 2\phi_5) + \\
& a_{2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 - 4\phi_4) + a_{2,0,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,0,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 + 4\phi_5) + a_{2,0,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_4) + a_{2,0,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 + 2\phi_4) + \\
& a_{2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + \\
& 2\phi_4) + a_{2,0,0,0,2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + 2\phi_3) + a_{2,0,0,0,2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + \\
& 2\phi_4) + a_{2,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& a_{2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_3) + \\
& a_{2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_4) + \\
& a_{2,0,2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_2 + 2\phi_5) + a_{2,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 + \\
& 4\phi_2) + a_{2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_1 - 2\phi_2) + a_{2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + a_{2,1,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{3,0,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(-3\phi_1 + \phi_2 + 2\phi_5) + a_{3,0,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 - \\
& \phi_2 + 2\phi_4) + a_{3,0,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 - \phi_2 + 2\phi_3) + \\
& a_{3,0,-3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 - 3\phi_2) + a_{3,0,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 - \phi_3 - \phi_4 + \\
& \phi_5) + a_{3,0,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{3,0,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 + \phi_2 - 2\phi_3) + a_{3,0,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 + \\
& \phi_2 - 2\phi_4) + a_{3,0,1,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 + \phi_2 + 2\phi_5) + \\
& a_{3,0,3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 + 3\phi_2) + a_{4,0,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(4\phi_1 - 2\phi_3) + \\
& a_{4,0,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(4\phi_1 - 2\phi_4) + a_{4,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \cos(4\phi_1 + 2\phi_5) + \\
& a_{4,0,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(4\phi_1 + 2\phi_2) + a_{5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(5\phi_1 + \phi_2) + \\
& a_{6,0,0,0,0,0,0,0,0,0}^r \rho_1^6 \cos(6\phi_1)
\end{aligned}$$

$$\begin{aligned}
H_{--}^{(6)} = & a_{0,0,0,0,0,0,0,0,0,3}^r \rho_5^6 + a_{0,0,0,0,0,0,0,0,6,0}^r \rho_5^6 \cos(6\phi_5) + a_{0,0,0,0,0,0,0,1,0,2}^r \rho_4^2 \rho_5^4 + \\
& a_{0,0,0,0,0,0,0,2,0,1}^r \rho_4^4 \rho_5^2 + a_{0,0,0,0,0,0,0,3,0,0}^r \rho_4^6 + a_{0,0,0,0,0,0,2,0,-4,0}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 - 4\phi_5) + \\
& a_{0,0,0,0,0,0,2,0,2,1}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,2,1,2,0}^r \rho_4^4 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + \\
& a_{0,0,0,0,0,0,4,0,-2,0}^r \rho_4^4 \rho_5^2 \cos(4\phi_4 - 2\phi_5) + a_{0,0,0,0,0,0,6,0,0,0}^r \rho_4^6 \cos(6\phi_4) + \\
& a_{0,0,0,0,0,1,0,0,0,2}^r \rho_3^2 \rho_5^4 + a_{0,0,0,0,0,1,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 + a_{0,0,0,0,0,1,0,2,0,0}^r \rho_3^2 \rho_4^4 + \\
& a_{0,0,0,0,0,1,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,2,0,0,0,1}^r \rho_3^4 \rho_5^2 + \\
& a_{0,0,0,0,0,2,0,1,0,0}^r \rho_3^4 \rho_4^2 + a_{0,0,0,0,0,3,0,0,0,0}^r \rho_3^6 + a_{0,0,0,0,2,0,-2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 - \\
& 2\phi_4) + a_{0,0,0,0,2,0,-2,1,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,0,2,0,0,0,-4,0}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 - 4\phi_5) + \\
& a_{0,0,0,0,2,0,0,0,2,1}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 + 2\phi_5) + a_{0,0,0,0,2,0,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{0,0,0,0,2,0,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_4 - 2\phi_5) + a_{0,0,0,0,2,0,4,0,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 + \\
& 4\phi_4) + a_{0,0,0,0,2,1,-2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,0,2,1,0,0,2,0}^r \rho_3^4 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + \\
& a_{0,0,0,0,4,0,0,0,-2,0}^r \rho_3^4 \rho_5^2 \cos(4\phi_3 - 2\phi_5) + a_{0,0,0,0,4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(4\phi_3 + 2\phi_4) + \\
& a_{0,0,0,0,6,0,0,0,0,0}^r \rho_3^6 \cos(6\phi_3) + a_{0,0,0,1,0,0,0,0,2}^r \rho_2^2 \rho_5^4 + a_{0,0,0,1,0,0,0,1,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 + \\
& a_{0,0,0,1,0,0,0,2,0,0}^r \rho_2^2 \rho_4^4 + a_{0,0,0,1,0,0,2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + \\
& a_{0,0,0,1,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 + a_{0,0,0,1,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 + a_{0,0,0,1,0,2,0,0,0,0}^r \rho_2^2 \rho_3^4 + \\
& a_{0,0,0,1,2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,1,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 + \\
& 2\phi_5) + a_{0,0,0,2,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 + a_{0,0,0,2,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 + a_{0,0,0,2,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 + \\
& a_{0,0,0,3,0,0,0,0,0,0}^r \rho_2^6 + a_{0,0,1,0,-1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_2 + \phi_3 + \phi_4 + 3\phi_5) + \\
& a_{0,0,1,0,-1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 - \phi_4 + 3\phi_5) + \\
& a_{0,0,1,0,-1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 - 3\phi_4 + \phi_5) + \\
& a_{0,0,1,0,-1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,0,-1,0,1,1,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,0,-1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + 3\phi_4 + \phi_5) + \\
& a_{0,0,1,0,-1,1,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,0,-3,0,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 - 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{0,0,1,0,1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,1,0,1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,1,0,1,1,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,1,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,1,0,3,0,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 + 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{0,0,1,1,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,1,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,1,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{0,0,2,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(- \\
& 2\phi_2 + 2\phi_3 + 2\phi_4) + a_{0,0,2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_3 + 2\phi_5) + \\
& a_{0,0,2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 - 4\phi_3) + a_{0,0,2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 - 2\phi_4 + \\
& 2\phi_5) + a_{0,0,2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 - 4\phi_4) + a_{0,0,2,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 - 2\phi_5) + \\
& a_{0,0,2,0,0,0,0,4,0}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 + 4\phi_5) + a_{0,0,2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + \\
& a_{0,0,2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 + 2\phi_4) + \\
& a_{0,0,2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,0,2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + \\
& 2\phi_4) + a_{0,0,2,0,2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,0,2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + 2\phi_3) + a_{0,0,2,1,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,0,2,1,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,0,2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_2 + 2\phi_4) + \\
& a_{0,0,2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + a_{0,0,3,0,-1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(3\phi_2 - \phi_3 - \phi_4 + \\
& \phi_5) + a_{0,0,3,0,1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(3\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,4,0,-2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(4\phi_2 - 2\phi_3) + a_{0,0,4,0,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(4\phi_2 - 2\phi_4) + \\
& a_{0,0,4,0,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \cos(4\phi_2 + 2\phi_5) + a_{0,0,6,0,0,0,0,0,0}^r \rho_2^6 \cos(6\phi_2) + \\
& a_{0,1,0,0,0,0,0,0,2}^r \rho_1^2 \rho_5^4 + a_{0,1,0,0,0,0,1,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 + a_{0,1,0,0,0,0,2,0,0}^r \rho_1^2 \rho_4^4 + \\
& a_{0,1,0,0,0,0,2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,1,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 + \\
& a_{0,1,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 + a_{0,1,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^4 +
\end{aligned}$$



$$\begin{aligned}
& a_{0,1,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,1,0,0,2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 + \\
& 2\phi_5) + a_{0,1,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 + a_{0,1,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 + \\
& a_{0,1,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 + a_{0,1,0,2,0,0,0,0,0,0}^r \rho_1^2 \rho_4^2 + \\
& a_{0,1,1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,1,1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,1,1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,1,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,1,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_2 + \\
& 2\phi_4) + a_{0,1,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + a_{0,2,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 + \\
& a_{0,2,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 + a_{0,2,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 + a_{0,2,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 + \\
& a_{0,3,0,0,0,0,0,0,0,0}^r \rho_1^6 + a_{1,0,-1,0,-2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5) + \\
& a_{1,0,-1,0,-2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 - 2\phi_3 + 2\phi_4) + \\
& a_{1,0,-1,0,0,0,-2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_4 + 2\phi_5) + \\
& a_{1,0,-1,0,0,0,0,0,2}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,0,0,1,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,0,2,0,2}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + \\
& 2\phi_4 + 2\phi_5) + a_{1,0,-1,0,0,1,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,1,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_4) + \\
& a_{1,0,-1,0,2,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_5) + \\
& a_{1,0,-1,1,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,1,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,1,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,2,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,-2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,-2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,-3,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(-\phi_1 + 3\phi_2 + 2\phi_3) + a_{1,0,-3,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(-\phi_1 + \\
& 3\phi_2 + 2\phi_4) + a_{1,0,-3,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - 3\phi_2 + 2\phi_5) + \\
& a_{1,0,0,0,-1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_1 + \phi_3 + \phi_4 + 3\phi_5) + \\
& a_{1,0,0,0,-1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 - \phi_4 + 3\phi_5) + \\
& a_{1,0,0,0,-1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 - 3\phi_4 + \phi_5) + \\
& a_{1,0,0,0,-1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + 3\phi_4 + \phi_5) + \\
& a_{1,0,0,0,-1,1,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-3,0,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,0,-1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,1,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,1,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,3,0,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,0,1,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,1,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{1,0,0,1,1,0,1,0,1,0}^r \rho_1^2 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,1,0,-2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_4) + \\
& a_{1,0,1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_5) + \\
& a_{1,0,1,0,-4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \phi_2 - 4\phi_3) + a_{1,0,1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \\
& \phi_2 - 2\phi_4 + 2\phi_5) + a_{1,0,1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \phi_2 - 4\phi_4) + \\
& a_{1,0,1,0,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 - 2\phi_5) + a_{1,0,1,0,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 + \\
& 4\phi_5) + a_{1,0,1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \\
& \phi_2 + 2\phi_4) + a_{1,0,1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + \\
& a_{1,0,1,0,2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + \\
& a_{1,0,1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,0,1,0,2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \\
& \phi_2 + 2\phi_3) + a_{1,0,1,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,1,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_3) + a_{1,0,2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,3,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + 3\phi_2 - 2\phi_3) + a_{1,0,3,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \\
& 3\phi_2 - 2\phi_4) + a_{1,0,3,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + 3\phi_2 + 2\phi_5) + \\
& a_{1,0,5,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 + 5\phi_2) + a_{1,1,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,1,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,1,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,1,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(\phi_1 - \phi_2) + a_{1,1,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \\
& \phi_5) + a_{1,1,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,1,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,1,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + a_{1,1,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_4) + a_{1,1,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,2,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(\phi_1 - \phi_2) + \\
& a_{2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,-2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 - 2\phi_2) + a_{2,0,-2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 - \\
& 2\phi_2) + a_{2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 - 2\phi_2) + a_{2,0,-2,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^4 \cos(2\phi_1 - \\
& 2\phi_2) + a_{2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(-2\phi_1 + 2\phi_3 + 2\phi_4) + \\
& a_{2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_3 + 2\phi_5) + a_{2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 - \\
& 4\phi_3) + a_{2,0,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_4 + 2\phi_5) + \\
& a_{2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 - 4\phi_4) + a_{2,0,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,0,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 + 4\phi_5) + a_{2,0,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_4) + a_{2,0,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 + 2\phi_4) + \\
& a_{2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + \\
& 2\phi_4) + a_{2,0,0,0,2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + 2\phi_3) + a_{2,0,0,0,2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + \\
& 2\phi_4) + a_{2,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_3) + \\
& a_{2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_4) + \\
& a_{2,0,2,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_2 + 2\phi_5) + a_{2,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 + \\
& 4\phi_2) + a_{2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_1 - 2\phi_2) + a_{2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + a_{2,1,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{3,0,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(-3\phi_1 + \phi_2 + 2\phi_5) + a_{3,0,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 - \\
& \phi_2 + 2\phi_4) + a_{3,0,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 - \phi_2 + 2\phi_3) + \\
& a_{3,0,-3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 - 3\phi_2) + a_{3,0,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 - \phi_3 - \phi_4 + \\
& \phi_5) + a_{3,0,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{3,0,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 + \phi_2 - 2\phi_3) + a_{3,0,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 + \\
& \phi_2 - 2\phi_4) + a_{3,0,1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 + \phi_2 + 2\phi_5) + \\
& a_{3,0,3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 + 3\phi_2) + a_{4,0,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(4\phi_1 - 2\phi_3) + \\
& a_{4,0,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(4\phi_1 - 2\phi_4) + a_{4,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \cos(4\phi_1 + 2\phi_5) + \\
& a_{4,0,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(4\phi_1 + 2\phi_2) + a_{5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(5\phi_1 + \phi_2) + \\
& a_{6,0,0,0,0,0,0,0,0,0}^r \rho_1^6 \cos(6\phi_1)
\end{aligned}$$

$$\begin{aligned}
H_{+-}^{(6)} = & b_{-1,0,-1,0,-2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(-\phi_1 - \phi_2 - 2\phi_3 - 2\phi_4)) + \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(-\phi_1 - \phi_2 - 2\phi_3 + 2\phi_5)) + \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(i(-\phi_1 - \phi_2 - 4\phi_3)) + b_{-1,0,-1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(- \\
& \phi_1 - \phi_2 - 2\phi_4 + 2\phi_5)) + b_{-1,0,-1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(i(-\phi_1 - \phi_2 - 4\phi_4)) + \\
& b_{-1,0,-1,0,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \exp(i(-\phi_1 - \phi_2 - 2\phi_5)) + b_{-1,0,-1,0,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \exp(i(-\phi_1 - \\
& \phi_2 + 4\phi_5)) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(-\phi_1 - \phi_2 - 2\phi_5)) + \\
& b_{-1,0,-1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(-\phi_1 - \phi_2 + 2\phi_4)) + b_{-1,0,-1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(i(- \\
& \phi_1 - \phi_2 + 2\phi_4)) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(-\phi_1 - \phi_2 - 2\phi_5)) + \\
& b_{-1,0,-1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(-\phi_1 - \phi_2 + 2\phi_4)) + \\
& b_{-1,0,-1,0,2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(-\phi_1 - \phi_2 + 2\phi_3)) + \\
& b_{-1,0,-1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(-\phi_1 - \phi_2 + 2\phi_3)) + b_{-1,0,-1,0,2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(i(- \\
& \phi_1 - \phi_2 + 2\phi_3)) + b_{-1,0,-1,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(i(-\phi_1 - \phi_2 - 2\phi_5)) + \\
& b_{-1,0,-1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(i(-\phi_1 - \phi_2 + 2\phi_4)) + b_{-1,0,-1,1,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(i(- \\
& \phi_1 - \phi_2 + 2\phi_3)) + b_{-1,0,-2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 - 2\phi_2 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,-2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 - 2\phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,-2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,-3,0,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \exp(i(-\phi_1 - 3\phi_2)) + b_{-1,0,-3,0,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(i(-\phi_1 - \\
& 3\phi_2)) + b_{-1,0,-3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(i(-\phi_1 - 3\phi_2)) + b_{-1,0,-3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \exp(i(-\phi_1 - \\
& 3\phi_2)) + b_{-1,0,0,0,-1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,-1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,-1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 - \phi_3 - 3\phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 - \phi_3 + \phi_4 - 3\phi_5)) + \\
& b_{-1,0,0,0,-1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 - \phi_3 + \phi_4 + 3\phi_5)) + \\
& b_{-1,0,0,0,-1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 - \phi_3 + 3\phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,-1,1,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,-3,0,-1,0,-1,0}^r \rho_1^3 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_1 - 3\phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,-3,0,1,0,1,0}^r \rho_1^3 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_1 - 3\phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 + \phi_3 - \phi_4 - 3\phi_5)) + \\
& b_{-1,0,0,0,1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 + \phi_3 - \phi_4 + 3\phi_5)) + \\
& b_{-1,0,0,0,1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_1 + \phi_3 - 3\phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_1 + \phi_3 + 3\phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,1,1,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,3,0,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_1 + 3\phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,3,0,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_1 + 3\phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,0,1,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,0,1,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(-\phi_1 + \phi_2 - 2\phi_3)) + \\
& b_{-1,0,1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(-\phi_1 + \phi_2 - 2\phi_3)) + b_{-1,0,1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(i(- \\
& \phi_1 + \phi_2 - 2\phi_3)) + b_{-1,0,1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(-\phi_1 + \phi_2 - 2\phi_4)) + \\
& b_{-1,0,1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(i(-\phi_1 + \phi_2 - 2\phi_4)) + b_{-1,0,1,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \exp(i(-\phi_1 + \\
& \phi_2 - 4\phi_5)) + b_{-1,0,1,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \exp(i(-\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{-1,0,1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(-\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{-1,0,1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(-\phi_1 + \phi_2 + 2\phi_4 - 2\phi_5)) + \\
& b_{-1,0,1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(i(-\phi_1 + \phi_2 + 4\phi_4)) + b_{-1,0,1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(- \\
& \phi_1 + \phi_2 - 2\phi_4)) + b_{-1,0,1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(-\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{-1,0,1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(-\phi_1 + \phi_2 + 2\phi_3 - 2\phi_5)) + \\
& b_{-1,0,1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4)) + \\
& b_{-1,0,1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(i(-\phi_1 + \phi_2 + 4\phi_3)) + b_{-1,0,1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(i(-\phi_1 + \\
& \phi_2 - 2\phi_3)) + b_{-1,0,1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(i(-\phi_1 + \phi_2 - 2\phi_4)) + \\
& b_{-1,0,1,1,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(i(-\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{-1,0,2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 + 2\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,3,0,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \exp(i(-\phi_1 + 3\phi_2)) + b_{-1,0,3,0,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(i(-\phi_1 + \\
& 3\phi_2)) + b_{-1,0,3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(i(-\phi_1 + 3\phi_2)) + b_{-1,0,3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \exp(i(-\phi_1 + \\
& 3\phi_2)) + b_{-1,1,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(i(-\phi_1 - \phi_2 - 2\phi_5)) + \\
& b_{-1,1,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(i(-\phi_1 - \phi_2 + 2\phi_4)) + b_{-1,1,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(i(- \\
& \phi_1 - \phi_2 + 2\phi_3)) + b_{-1,1,-3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(i(-\phi_1 - 3\phi_2)) + \\
& b_{-1,1,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,1,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,1,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(i(-\phi_1 + \phi_2 - 2\phi_3)) + b_{-1,1,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(i(- \\
& \phi_1 + \phi_2 - 2\phi_4)) + b_{-1,1,1,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(i(-\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{-1,1,3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \exp(i(-\phi_1 + 3\phi_2)) + b_{-2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_1 - \\
& \phi_2 - \phi_3 + \phi_4 - \phi_5)) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_1 - \phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{-2,0,-2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(i(-2\phi_1 - 2\phi_2)) + b_{-2,0,-2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(i(-2\phi_1 - 2\phi_2)) + \\
& b_{-2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(i(-2\phi_1 - 2\phi_2)) + \\
& b_{-2,0,-2,1,0,0,0,0,0,0}^r \rho_1^4 \exp(i(-2\phi_1 - 2\phi_2)) + b_{-2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(i(-2\phi_1 - 2\phi_3 - 2\phi_4)) + \\
& b_{-2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(i(-2\phi_1 - 2\phi_3 + 2\phi_5)) + \\
& b_{-2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \exp(i(-2\phi_1 - 4\phi_3)) + b_{-2,0,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(i(-2\phi_1 - 2\phi_4 + 2\phi_5)) + \\
& b_{-2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \exp(i(-2\phi_1 - 4\phi_4)) + b_{-2,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \exp(i(-2\phi_1 - 2\phi_5)) + \\
& b_{-2,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_5^4 \exp(i(-2\phi_1 + 4\phi_5)) + \\
& b_{-2,0,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(i(-2\phi_1 - 2\phi_5)) + b_{-2,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(i(-2\phi_1 + 2\phi_4)) + \\
& b_{-2,0,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \exp(i(-2\phi_1 + 2\phi_4)) + \\
& b_{-2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(i(-2\phi_1 - 2\phi_5)) + b_{-2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(i(-2\phi_1 + 2\phi_4)) + \\
& b_{-2,0,0,0,2,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(i(-2\phi_1 + 2\phi_3)) + \\
& b_{-2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(i(-2\phi_1 + 2\phi_3)) + b_{-2,0,0,0,2,1,0,0,0}^r \rho_1^2 \rho_3^4 \exp(i(-2\phi_1 + 2\phi_3)) + \\
& b_{-2,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(i(-2\phi_1 - 2\phi_5)) + \\
& b_{-2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(i(-2\phi_1 + 2\phi_4)) + b_{-2,0,0,1,2,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(i(-2\phi_1 + 2\phi_3)) + \\
& b_{-2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(i(-2\phi_1 + 2\phi_2 - 2\phi_3)) + \\
& b_{-2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(i(-2\phi_1 + 2\phi_2 - 2\phi_4)) + \\
& b_{-2,0,2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(i(-2\phi_1 + 2\phi_2 + 2\phi_5)) + b_{-2,0,4,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \exp(i(-2\phi_1 + 4\phi_2)) + \\
& b_{-2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(i(-2\phi_1 - 2\phi_2)) + b_{-2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \exp(i(-2\phi_1 - 2\phi_5)) + \\
& b_{-2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \exp(i(-2\phi_1 + 2\phi_4)) + b_{-2,1,0,0,2,0,0,0,0}^r \rho_1^4 \rho_3^2 \exp(i(-2\phi_1 + 2\phi_3)) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \exp(i(-3\phi_1 - \phi_2)) + b_{-3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(i(-3\phi_1 - \phi_2)) + \\
& b_{-3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(i(-3\phi_1 - \phi_2)) + b_{-3,0,-1,1,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \exp(i(-3\phi_1 - \phi_2)) + \\
& b_{-3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(-3\phi_1 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(-3\phi_1 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(-3\phi_1 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(i(-3\phi_1 + \phi_2 - 2\phi_5)) + b_{-3,0,1,0,0,0,2,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(i(-3\phi_1 + \phi_2 + 2\phi_4)) + \\
& b_{-3,0,1,0,2,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(i(-3\phi_1 + \phi_2 + 2\phi_3)) + \\
& b_{-3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \exp(i(-3\phi_1 - \phi_2)) + b_{-4,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \exp(-4i\phi_1) + \\
& b_{-4,0,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \exp(-4i\phi_1) + b_{-4,0,0,0,0,1,0,0,0}^r \rho_1^4 \rho_3^2 \exp(-4i\phi_1) + \\
& b_{-4,0,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(-4i\phi_1) + b_{-4,1,0,0,0,0,0,0,0}^r \rho_1^6 \exp(-4i\phi_1) + \\
& b_{-5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \exp(i(-5\phi_1 + \phi_2)) + b_{0,0,-1,0,-1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,-1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_2 - \phi_3 - 3\phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,-1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_2 - \phi_3 + \phi_4 - 3\phi_5)) + \\
& b_{0,0,-1,0,-1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_2 - \phi_3 + \phi_4 + 3\phi_5)) + \\
& b_{0,0,-1,0,-1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_2 - \phi_3 + 3\phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,-1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_2 - 3\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,-3,0,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_2 - 3\phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_2 + \phi_3 - \phi_4 - 3\phi_5)) + \\
& b_{0,0,-1,0,1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_2 + \phi_3 - \phi_4 + 3\phi_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,-1,0,1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_2 + \phi_3 - 3\phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,1,0,1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(-\phi_2 + \phi_3 + 3\phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,1,1,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,3,0,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_2 + 3\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,3,0,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(-\phi_2 + 3\phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,-1,1,-1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,-1,1,1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-2,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(i(-2\phi_2 - 2\phi_3 - 2\phi_4)) + \\
& b_{0,0,-2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(i(-2\phi_2 - 2\phi_3 + 2\phi_5)) + b_{0,0,-2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \exp(i(- \\
& 2\phi_2 - 4\phi_3)) + b_{0,0,-2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(i(-2\phi_2 - 2\phi_4 + 2\phi_5)) + \\
& b_{0,0,-2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \exp(i(-2\phi_2 - 4\phi_4)) + b_{0,0,-2,0,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \exp(i(-2\phi_2 - 2\phi_5)) + \\
& b_{0,0,-2,0,0,0,0,0,4,0}^r \rho_2^2 \rho_5^4 \exp(i(-2\phi_2 + 4\phi_5)) + b_{0,0,-2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(i(-2\phi_2 - \\
& 2\phi_5)) + b_{0,0,-2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(i(-2\phi_2 + 2\phi_4)) + b_{0,0,-2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \exp(i(- \\
& 2\phi_2 + 2\phi_4)) + b_{0,0,-2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(i(-2\phi_2 - 2\phi_5)) + \\
& b_{0,0,-2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(i(-2\phi_2 + 2\phi_4)) + b_{0,0,-2,0,2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(i(-2\phi_2 + \\
& 2\phi_3)) + b_{0,0,-2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(i(-2\phi_2 + 2\phi_3)) + b_{0,0,-2,0,2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \exp(i(- \\
& 2\phi_2 + 2\phi_3)) + b_{0,0,-2,1,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \exp(i(-2\phi_2 - 2\phi_5)) + b_{0,0,-2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \exp(i(- \\
& 2\phi_2 + 2\phi_4)) + b_{0,0,-2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(i(-2\phi_2 + 2\phi_3)) + \\
& b_{0,0,-3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(-3\phi_2 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(-3\phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(-3\phi_2 + \phi_3 + \phi_4 + \phi_5)) + b_{0,0,-4,0,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \exp(- \\
& 4i\phi_2) + b_{0,0,-4,0,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \exp(-4i\phi_2) + b_{0,0,-4,0,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(-4i\phi_2) + \\
& b_{0,0,-4,1,0,0,0,0,0,0}^r \rho_2^6 \exp(-4i\phi_2) + b_{0,0,0,0,-2,0,-2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(i(-2\phi_3 - 2\phi_4 - 2\phi_5)) + \\
& b_{0,0,0,0,-2,0,0,0,0,2}^r \rho_3^2 \rho_5^4 \exp(-2i\phi_3) + b_{0,0,0,0,-2,0,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(-2i\phi_3) + \\
& b_{0,0,0,0,-2,0,0,2,0,0}^r \rho_3^2 \rho_4^4 \exp(-2i\phi_3) + b_{0,0,0,0,-2,0,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(i(-2\phi_3 + 2\phi_4 + 2\phi_5)) + \\
& b_{0,0,0,0,-2,1,0,0,0,1}^r \rho_3^4 \rho_5^2 \exp(-2i\phi_3) + b_{0,0,0,0,-2,1,0,1,0,0}^r \rho_3^4 \rho_4^2 \exp(-2i\phi_3) + \\
& b_{0,0,0,0,-2,2,0,0,0,0}^r \rho_3^6 \exp(-2i\phi_3) + b_{0,0,0,0,-4,0,0,0,-2,0}^r \rho_3^4 \rho_5^2 \exp(i(-4\phi_3 - 2\phi_5)) + \\
& b_{0,0,0,0,-4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \exp(i(-4\phi_3 + 2\phi_4)) + b_{0,0,0,0,0,0,-2,0,0,2}^r \rho_4^2 \rho_5^4 \exp(-2i\phi_4) + \\
& b_{0,0,0,0,0,0,-2,1,0,1}^r \rho_4^4 \rho_5^2 \exp(-2i\phi_4) + b_{0,0,0,0,0,0,-2,2,0,0}^r \rho_4^6 \exp(-2i\phi_4) + \\
& b_{0,0,0,0,0,0,-4,0,-2,0}^r \rho_4^4 \rho_5^2 \exp(i(-4\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,0,0,0,-4,1}^r \rho_5^6 \exp(-4i\phi_5) + \\
& b_{0,0,0,0,0,0,0,0,2,2}^r \rho_5^6 \exp(2i\phi_5) + b_{0,0,0,0,0,0,0,1,-4,0}^r \rho_4^2 \rho_5^4 \exp(-4i\phi_5) + \\
& b_{0,0,0,0,0,0,0,1,2,1}^r \rho_4^2 \rho_5^4 \exp(2i\phi_5) + b_{0,0,0,0,0,0,0,2,2,0}^r \rho_4^4 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,0,0,0,0,0,2,0,-2,1}^r \rho_4^2 \rho_5^4 \exp(i(2\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,0,2,0,4,0}^r \rho_4^2 \rho_5^4 \exp(i(2\phi_4 + 4\phi_5)) + \\
& b_{0,0,0,0,0,0,2,1,-2,0}^r \rho_4^4 \rho_5^2 \exp(i(2\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,0,4,0,0,1}^r \rho_4^4 \rho_5^2 \exp(4i\phi_4) + \\
& b_{0,0,0,0,0,0,4,1,0,0}^r \rho_4^6 \exp(4i\phi_4) + b_{0,0,0,0,0,0,1,-2,0,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(-2i\phi_4) + \\
& b_{0,0,0,0,0,1,-2,1,0,0}^r \rho_3^2 \rho_4^4 \exp(-2i\phi_4) + b_{0,0,0,0,0,1,0,0,-4,0}^r \rho_3^2 \rho_5^4 \exp(-4i\phi_5) + \\
& b_{0,0,0,0,0,1,0,0,2,1}^r \rho_3^2 \rho_5^4 \exp(2i\phi_5) + b_{0,0,0,0,0,1,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,0,0,0,0,1,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,1,4,0,0,0}^r \rho_3^2 \rho_4^4 \exp(4i\phi_4) + \\
& b_{0,0,0,0,0,2,-2,0,0,0}^r \rho_3^4 \rho_4^2 \exp(-2i\phi_4) + b_{0,0,0,0,0,2,0,0,2,0}^r \rho_3^4 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,0,0,0,0,2,0,-2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_3 - 2\phi_4 + 2\phi_5)) + b_{0,0,0,0,0,2,0,-4,0,0,0}^r \rho_3^2 \rho_4^4 \exp(i(2\phi_3 -
\end{aligned}$$

$$\begin{aligned}
& 4\phi_4)) + b_{0,0,0,0,2,0,0,0,-2,1}^r \rho_3^2 \rho_5^4 \exp(i(2\phi_3 - 2\phi_5)) + b_{0,0,0,0,2,0,0,0,4,0}^r \rho_3^2 \rho_5^4 \exp(i(2\phi_3 + 4\phi_5)) + \\
& b_{0,0,0,0,2,0,0,1,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_3 - 2\phi_5)) + b_{0,0,0,0,2,0,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_3 + \\
& 2\phi_4)) + b_{0,0,0,0,2,0,2,1,0,0}^r \rho_3^2 \rho_4^4 \exp(i(2\phi_3 + 2\phi_4)) + b_{0,0,0,0,2,1,0,0,-2,0}^r \rho_3^2 \rho_5^4 \exp(i(2\phi_3 - 2\phi_5)) + \\
& b_{0,0,0,0,2,1,2,0,0,0}^r \rho_3^4 \rho_4^2 \exp(i(2\phi_3 + 2\phi_4)) + b_{0,0,0,0,4,0,0,0,0,1}^r \rho_3^4 \rho_5^2 \exp(4i\phi_3) + \\
& b_{0,0,0,0,4,0,0,1,0,0}^r \rho_3^4 \rho_4^2 \exp(4i\phi_3) + b_{0,0,0,0,4,1,0,0,0,0}^r \rho_3^6 \exp(4i\phi_3) + \\
& b_{0,0,0,1,-2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(-2i\phi_3) + b_{0,0,0,1,-2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(-2i\phi_3) + \\
& b_{0,0,0,1,-2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \exp(-2i\phi_3) + b_{0,0,0,1,0,0,0,-2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(-2i\phi_4) + \\
& b_{0,0,0,1,0,0,-2,1,0,0}^r \rho_2^2 \rho_4^4 \exp(-2i\phi_4) + b_{0,0,0,1,0,0,0,0,-4,0}^r \rho_2^2 \rho_5^4 \exp(-4i\phi_5) + \\
& b_{0,0,0,1,0,0,0,0,2,1}^r \rho_2^2 \rho_5^4 \exp(2i\phi_5) + b_{0,0,0,1,0,0,0,1,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,0,0,1,0,0,2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_4 - 2\phi_5)) + b_{0,0,0,1,0,0,4,0,0,0}^r \rho_2^2 \rho_4^4 \exp(4i\phi_4) + \\
& b_{0,0,0,1,0,1,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(-2i\phi_4) + b_{0,0,0,1,0,1,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,0,0,1,2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(i(2\phi_3 - 2\phi_5)) + b_{0,0,0,1,2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(i(2\phi_3 + \\
& 2\phi_4)) + b_{0,0,0,1,4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \exp(4i\phi_3) + b_{0,0,0,2,-2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(-2i\phi_3) + \\
& b_{0,0,0,2,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \exp(-2i\phi_4) + b_{0,0,0,2,0,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,1,0,-1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,1,0,-1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,-1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,-1,1,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,1,0,-1,1,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_2 - 3\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,1,0,1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_2 + \phi_3 - 3\phi_4 - \phi_5)) + \\
& b_{0,0,1,0,1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_2 + \phi_3 + \phi_4 - 3\phi_5)) + \\
& b_{0,0,1,0,1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_2 + \phi_3 + \phi_4 + 3\phi_5)) + \\
& b_{0,0,1,0,1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_2 + \phi_3 + 3\phi_4 - \phi_5)) + \\
& b_{0,0,1,0,1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_2 + 3\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,1,1,-1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,1,1,-1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,1,1,1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,2,0,-2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(i(2\phi_2 - 2\phi_3 - 2\phi_5)) + \\
& b_{0,0,2,0,-2,0,2,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(i(2\phi_2 - 2\phi_3 + 2\phi_4)) + \\
& b_{0,0,2,0,0,0,-2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_2 - 2\phi_4 - 2\phi_5)) + b_{0,0,2,0,0,0,0,0,2}^r \rho_2^2 \rho_5^4 \exp(2i\phi_2) + \\
& b_{0,0,2,0,0,0,0,1,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(2i\phi_2) + b_{0,0,2,0,0,0,2,0,0}^r \rho_2^2 \rho_4^4 \exp(2i\phi_2) + \\
& b_{0,0,2,0,0,0,2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_2 + 2\phi_4 + 2\phi_5)) + \\
& b_{0,0,2,0,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(2i\phi_2) + b_{0,0,2,0,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(2i\phi_2) + \\
& b_{0,0,2,0,2,0,0,0,0}^r \rho_2^2 \rho_3^4 \exp(2i\phi_2) + b_{0,0,2,0,2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(i(2\phi_2 + 2\phi_3 - 2\phi_4)) + \\
& b_{0,0,2,0,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(i(2\phi_2 + 2\phi_3 + 2\phi_5)) + b_{0,0,2,1,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \exp(2i\phi_2) + \\
& b_{0,0,2,1,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \exp(2i\phi_2) + b_{0,0,2,1,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(2i\phi_2) + \\
& b_{0,0,2,2,0,0,0,0,0,0}^r \rho_2^6 \exp(2i\phi_2) + b_{0,0,3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(3\phi_2 - \phi_3 + \phi_4 - \phi_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(3\phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(i(3\phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,4,0,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \exp(i(4\phi_2 - 2\phi_5)) + b_{0,0,4,0,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \exp(i(4\phi_2 + 2\phi_4)) + \\
& b_{0,0,4,0,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(i(4\phi_2 + 2\phi_3)) + b_{0,1,-1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_2 - \\
& \phi_3 - \phi_4 + \phi_5)) + b_{0,1,-1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,1,-2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(i(-2\phi_2 - 2\phi_5)) + b_{0,1,-2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(i(- \\
& 2\phi_2 + 2\phi_4)) + b_{0,1,-2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(i(-2\phi_2 + 2\phi_3)) + b_{0,1,-4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \exp(- \\
& 4i\phi_2) + b_{0,1,0,0,-2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(-2i\phi_3) + b_{0,1,0,0,-2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(- \\
& 2i\phi_3) + b_{0,1,0,0,-2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \exp(-2i\phi_3) + b_{0,1,0,0,0,-2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(-2i\phi_4) + \\
& b_{0,1,0,0,0,0,-2,1,0,0}^r \rho_1^2 \rho_4^4 \exp(-2i\phi_4) + b_{0,1,0,0,0,0,0,-4,0}^r \rho_1^2 \rho_5^4 \exp(-4i\phi_5) + \\
& b_{0,1,0,0,0,0,0,0,2,1}^r \rho_1^2 \rho_5^4 \exp(2i\phi_5) + b_{0,1,0,0,0,0,0,1,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,1,0,0,0,0,2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_4 - 2\phi_5)) + b_{0,1,0,0,0,0,4,0,0,0}^r \rho_1^2 \rho_4^4 \exp(4i\phi_4) + \\
& b_{0,1,0,0,0,1,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(-2i\phi_4) + b_{0,1,0,0,0,1,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,1,0,0,2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(i(2\phi_3 - 2\phi_5)) + b_{0,1,0,0,2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(i(2\phi_3 + \\
& 2\phi_4)) + b_{0,1,0,0,4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \exp(4i\phi_3) + b_{0,1,0,1,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(-2i\phi_3) + \\
& b_{0,1,0,1,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(-2i\phi_4) + b_{0,1,0,1,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(2i\phi_5) + \\
& b_{0,1,1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,1,1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,1,1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,1,2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(2i\phi_2) + b_{0,1,2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(2i\phi_2) + \\
& b_{0,1,2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(2i\phi_2) + b_{0,1,2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \exp(2i\phi_2) + \\
& b_{0,2,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \exp(-2i\phi_3) + b_{0,2,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \exp(-2i\phi_4) + \\
& b_{0,2,0,0,0,0,0,2,0,1}^r \rho_1^4 \rho_5^2 \exp(2i\phi_5) + b_{0,2,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(2i\phi_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(\phi_1 - \phi_2 - 2\phi_3)) + \\
& b_{1,0,-1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(\phi_1 - \phi_2 - 2\phi_3)) + \\
& b_{1,0,-1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(i(\phi_1 - \phi_2 - 2\phi_3)) + \\
& b_{1,0,-1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(\phi_1 - \phi_2 - 2\phi_4)) + \\
& b_{1,0,-1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(i(\phi_1 - \phi_2 - 2\phi_4)) + b_{1,0,-1,0,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \exp(i(\phi_1 - \phi_2 - \\
& 4\phi_5)) + b_{1,0,-1,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \exp(i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,0,-1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,0,-1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(\phi_1 - \phi_2 + 2\phi_4 - 2\phi_5)) + \\
& b_{1,0,-1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(i(\phi_1 - \phi_2 + 4\phi_4)) + \\
& b_{1,0,-1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(\phi_1 - \phi_2 - 2\phi_4)) + \\
& b_{1,0,-1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,0,-1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_5)) + \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_4)) + \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(i(\phi_1 - \phi_2 + 4\phi_3)) + b_{1,0,-1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(i(\phi_1 - \\
& \phi_2 - 2\phi_3)) + b_{1,0,-1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(i(\phi_1 - \phi_2 - 2\phi_4)) + \\
& b_{1,0,-1,1,0,0,0,2,0,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,0,-2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - 2\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,-2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,-3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(i(\phi_1 - 3\phi_2 - 2\phi_5)) + b_{1,0,-3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(i(\phi_1 -
\end{aligned}$$



$$\begin{aligned}
& 3\phi_2 + 2\phi_4)) + b_{1,0,-3,0,2,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(i(\phi_1 - 3\phi_2 + 2\phi_3)) + \\
& b_{1,0,-5,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \exp(i(\phi_1 - 5\phi_2)) + b_{1,0,0,0,-1,0,-1,0,-1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_1 - \phi_3 - \phi_4 - \\
& \phi_5)) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,0,0,-1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,-1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,-1,1,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,0,0,-1,1,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,-3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_1 - 3\phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,0,0,1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_1 + \phi_3 - 3\phi_4 - \phi_5)) + \\
& b_{1,0,0,0,1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_1 + \phi_3 + \phi_4 - 3\phi_5)) + \\
& b_{1,0,0,0,1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(i(\phi_1 + \phi_3 + \phi_4 + 3\phi_5)) + \\
& b_{1,0,0,0,1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(i(\phi_1 + \phi_3 + 3\phi_4 - \phi_5)) + \\
& b_{1,0,0,0,1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(i(\phi_1 + 3\phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,0,1,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,0,1,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,0,1,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,1,0,-2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_5)) + \\
& b_{1,0,1,0,-2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_4)) + \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(\phi_1 + \phi_2 - 2\phi_4 - 2\phi_5)) + \\
& b_{1,0,1,0,0,0,0,0,2}^r \rho_1 \rho_2 \rho_5^4 \exp(i(\phi_1 + \phi_2)) + b_{1,0,1,0,0,0,1,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(\phi_1 + \phi_2)) + \\
& b_{1,0,1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_4^4 \exp(i(\phi_1 + \phi_2)) + b_{1,0,1,0,0,0,2,0,2}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(i(\phi_1 + \phi_2 + \\
& 2\phi_4 + 2\phi_5)) + b_{1,0,1,0,0,1,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(\phi_1 + \phi_2)) + \\
& b_{1,0,1,0,0,1,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(\phi_1 + \phi_2)) + b_{1,0,1,0,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(i(\phi_1 + \phi_2)) + \\
& b_{1,0,1,0,2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(i(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_4)) + \\
& b_{1,0,1,0,2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(i(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5)) + \\
& b_{1,0,1,1,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \exp(i(\phi_1 + \phi_2)) + b_{1,0,1,1,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(i(\phi_1 + \phi_2)) + \\
& b_{1,0,1,1,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(i(\phi_1 + \phi_2)) + b_{1,0,1,2,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \exp(i(\phi_1 + \phi_2)) + \\
& b_{1,0,2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(i(\phi_1 + 3\phi_2 - 2\phi_5)) + b_{1,0,3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(i(\phi_1 + \\
& 3\phi_2 + 2\phi_4)) + b_{1,0,3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(i(\phi_1 + 3\phi_2 + 2\phi_3)) + \\
& b_{1,1,-1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(i(\phi_1 - \phi_2 - 2\phi_3)) + b_{1,1,-1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(i(\phi_1 - \\
& \phi_2 - 2\phi_4)) + b_{1,1,-1,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,1,0,0,-1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,1,0,0,-1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,1,0,0,1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,1,1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \exp(i(\phi_1 + \phi_2)) + b_{1,1,1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(i(\phi_1 + \phi_2)) + \\
& b_{1,1,1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(i(\phi_1 + \phi_2)) + b_{1,1,1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \exp(i(\phi_1 + \phi_2)) +
\end{aligned}$$

$$\begin{aligned}
& b_{1,2,1,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \exp(i(\phi_1 + \phi_2)) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_1 - \phi_2 - \\
& \phi_3 - \phi_4 - \phi_5)) + b_{2,0,-1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{2,0,-1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_1 - \phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{2,0,-2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(i(2\phi_1 - 2\phi_2 - 2\phi_3)) + \\
& b_{2,0,-2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(i(2\phi_1 - 2\phi_2 - 2\phi_4)) + \\
& b_{2,0,-2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(i(2\phi_1 - 2\phi_2 + 2\phi_5)) + \\
& b_{2,0,0,0,-2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(i(2\phi_1 - 2\phi_3 - 2\phi_5)) + \\
& b_{2,0,0,0,-2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(i(2\phi_1 - 2\phi_3 + 2\phi_4)) + \\
& b_{2,0,0,0,0,-2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_1 - 2\phi_4 - 2\phi_5)) + b_{2,0,0,0,0,0,0,0,2}^r \rho_1^2 \rho_5^4 \exp(2i\phi_1) + \\
& b_{2,0,0,0,0,0,0,1,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(2i\phi_1) + b_{2,0,0,0,0,0,0,2,0,0}^r \rho_1^4 \rho_4^2 \exp(2i\phi_1) + \\
& b_{2,0,0,0,0,0,2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(i(2\phi_1 + 2\phi_4 + 2\phi_5)) + \\
& b_{2,0,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(2i\phi_1) + b_{2,0,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(2i\phi_1) + \\
& b_{2,0,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^4 \exp(2i\phi_1) + b_{2,0,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(i(2\phi_1 + 2\phi_3 - 2\phi_4)) + \\
& b_{2,0,0,0,2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(i(2\phi_1 + 2\phi_3 + 2\phi_5)) + \\
& b_{2,0,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(2i\phi_1) + b_{2,0,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(2i\phi_1) + \\
& b_{2,0,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(2i\phi_1) + b_{2,0,0,2,0,0,0,0,0,0}^r \rho_1^4 \rho_4^2 \exp(2i\phi_1) + \\
& b_{2,0,1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{2,0,1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{2,0,1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(i(2\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{2,0,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(i(2\phi_1 + 2\phi_2 - 2\phi_5)) + \\
& b_{2,0,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(i(2\phi_1 + 2\phi_2 + 2\phi_4)) + \\
& b_{2,0,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(i(2\phi_1 + 2\phi_2 + 2\phi_3)) + b_{2,1,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \exp(2i\phi_1) + \\
& b_{2,1,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \exp(2i\phi_1) + b_{2,1,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \exp(2i\phi_1) + \\
& b_{2,1,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(2i\phi_1) + b_{2,2,0,0,0,0,0,0,0,0}^r \rho_1^6 \exp(2i\phi_1) + \\
& b_{3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \exp(i(3\phi_1 - \phi_2)) + b_{3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(i(3\phi_1 - \phi_2)) + \\
& b_{3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(i(3\phi_1 - \phi_2)) + b_{3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \exp(i(3\phi_1 - \phi_2)) + \\
& b_{3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(3\phi_1 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(3\phi_1 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(i(3\phi_1 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(i(3\phi_1 + \phi_2 - 2\phi_5)) + b_{3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(i(3\phi_1 + \\
& \phi_2 + 2\phi_4)) + b_{3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(i(3\phi_1 + \phi_2 + 2\phi_3)) + \\
& b_{3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \exp(i(3\phi_1 - \phi_2)) + b_{4,0,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(i(4\phi_1 - 2\phi_2)) + \\
& b_{4,0,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \exp(i(4\phi_1 - 2\phi_5)) + b_{4,0,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \exp(i(4\phi_1 + 2\phi_4)) + \\
& b_{4,0,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \exp(i(4\phi_1 + 2\phi_3))
\end{aligned}$$

$$\begin{aligned}
H_{-+}^{(6)} = & b_{-1,0,-1,0,-2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(-\phi_1 - \phi_2 - 2\phi_3 - 2\phi_4)) + \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(-\phi_1 - \phi_2 - 2\phi_3 + 2\phi_5)) + \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(-i(-\phi_1 - \phi_2 - 4\phi_3)) + b_{-1,0,-1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(- \\
& i(-\phi_1 - \phi_2 - 2\phi_4 + 2\phi_5)) + b_{-1,0,-1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(-i(-\phi_1 - \phi_2 - 4\phi_4)) + \\
& b_{-1,0,-1,0,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \exp(-i(-\phi_1 - \phi_2 - 2\phi_5)) + b_{-1,0,-1,0,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \exp(-i(-\phi_1 - \\
& \phi_2 + 4\phi_5)) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(-i(-\phi_1 - \phi_2 - 2\phi_5)) + \\
& b_{-1,0,-1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(-i(-\phi_1 - \phi_2 + 2\phi_4)) + b_{-1,0,-1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(-i(-
\end{aligned}$$

$$\begin{aligned}
& \phi_1 - \phi_2 + 2\phi_4)) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(-\phi_1 - \phi_2 - 2\phi_5)) + \\
& b_{-1,0,-1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(-\phi_1 - \phi_2 + 2\phi_4)) + \\
& b_{-1,0,-1,0,2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(-\phi_1 - \phi_2 + 2\phi_3)) + \\
& b_{-1,0,-1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(-\phi_1 - \phi_2 + 2\phi_3)) + b_{-1,0,-1,0,2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(-i(-\phi_1 - \phi_2 + 2\phi_3)) + \\
& b_{-1,0,-1,1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(-i(-\phi_1 - \phi_2 - 2\phi_5)) + \\
& b_{-1,0,-1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(-i(-\phi_1 - \phi_2 + 2\phi_4)) + b_{-1,0,-1,1,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(-i(-\phi_1 - \phi_2 + 2\phi_3)) + \\
& b_{-1,0,-2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 - 2\phi_2 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,-2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 - 2\phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,-2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,-3,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \exp(-i(-\phi_1 - 3\phi_2)) + b_{-1,0,-3,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(-i(-\phi_1 - 3\phi_2)) + \\
& b_{-1,0,-3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(-i(-\phi_1 - 3\phi_2)) + b_{-1,0,-3,1,0,0,0,0,0}^r \rho_1 \rho_2^5 \exp(-i(-\phi_1 - 3\phi_2)) + \\
& b_{-1,0,0,0,-1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,-1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,-1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_1 - \phi_3 - 3\phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_1 - \phi_3 + \phi_4 - 3\phi_5)) + \\
& b_{-1,0,0,0,-1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_1 - \phi_3 + \phi_4 + 3\phi_5)) + \\
& b_{-1,0,0,0,-1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_1 - \phi_3 + 3\phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,-1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,-3,0,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_1 - 3\phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,-3,0,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_1 - 3\phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_1 + \phi_3 - \phi_4 - 3\phi_5)) + \\
& b_{-1,0,0,0,1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_1 + \phi_3 - \phi_4 + 3\phi_5)) + \\
& b_{-1,0,0,0,1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_1 + \phi_3 - 3\phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_1 + \phi_3 + 3\phi_4 + \phi_5)) + \\
& b_{-1,0,0,0,1,1,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,3,0,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_1 + 3\phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,0,0,3,0,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_1 + 3\phi_3 + \phi_4 + \phi_5)) + \\
& b_{-1,0,0,1,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,0,1,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,0,1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(-\phi_1 + \phi_2 - 2\phi_3)) + \\
& b_{-1,0,1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(-\phi_1 + \phi_2 - 2\phi_3)) + b_{-1,0,1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(-i(-\phi_1 + \phi_2 - 2\phi_3)) + \\
& b_{-1,0,1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(-i(-\phi_1 + \phi_2 - 2\phi_4)) + b_{-1,0,1,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \exp(-i(-\phi_1 + \phi_2 - 4\phi_5)) + \\
& b_{-1,0,1,0,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \exp(-i(-\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{-1,0,1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(-i(-\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{-1,0,1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(-i(-\phi_1 + \phi_2 + 2\phi_4 - 2\phi_5)) + \\
& b_{-1,0,1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(-i(-\phi_1 + \phi_2 + 4\phi_4)) + b_{-1,0,1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(-\phi_1 + \phi_2 - 2\phi_4)) + \\
& b_{-1,0,1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(-\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{-1,0,1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(-\phi_1 + \phi_2 + 2\phi_3 - 2\phi_5)) + \\
& b_{-1,0,1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4)) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(-i(-\phi_1 + \phi_2 + 4\phi_3)) + b_{-1,0,1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(-i(-\phi_1 + \phi_2 - 2\phi_3)) + b_{-1,0,1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(-i(-\phi_1 + \phi_2 - 2\phi_4)) + \\
& b_{-1,0,1,1,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(-i(-\phi_1 + \phi_2 + 2\phi_5)) + b_{-1,0,2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 + 2\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-1,0,2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5)) + b_{-1,0,2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-1,0,3,0,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \exp(-i(-\phi_1 + 3\phi_2)) + b_{-1,0,3,0,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(-i(-\phi_1 + 3\phi_2)) + b_{-1,0,3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(-i(-\phi_1 + 3\phi_2)) + b_{-1,0,3,0,1,0,0,0,0,0}^r \rho_1 \rho_2^5 \exp(-i(-\phi_1 + 3\phi_2)) + b_{-1,1,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(-i(-\phi_1 - \phi_2 - 2\phi_5)) + \\
& b_{-1,1,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(-i(-\phi_1 - \phi_2 + 2\phi_4)) + b_{-1,1,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(-i(-\phi_1 - \phi_2 + 2\phi_3)) + b_{-1,1,-1,3,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \exp(-i(-\phi_1 - 3\phi_2)) + \\
& b_{-1,1,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 - \phi_3 - \phi_4 + \phi_5)) + b_{-1,1,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_1 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{-1,1,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(-i(-\phi_1 + \phi_2 - 2\phi_3)) + b_{-1,1,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(-i(-\phi_1 + \phi_2 - 2\phi_4)) + b_{-1,1,1,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(-i(-\phi_1 + \phi_2 + 2\phi_5)) + \\
& b_{-1,1,3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(-i(-\phi_1 + 3\phi_2)) + b_{-2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_1 - \phi_2 - \phi_3 + \phi_4 - \phi_5)) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_1 - \phi_2 + \phi_3 - \phi_4 - \phi_5)) + b_{-2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-2,0,-2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(-i(-2\phi_1 - 2\phi_2)) + b_{-2,0,-2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(-i(-2\phi_1 - 2\phi_2)) + b_{-2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(-i(-2\phi_1 - 2\phi_2)) + \\
& b_{-2,0,-2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \exp(-i(-2\phi_1 - 2\phi_2)) + b_{-2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(-i(-2\phi_1 - 2\phi_3 - 2\phi_4)) + b_{-2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(-i(-2\phi_1 - 2\phi_3 + 2\phi_5)) + \\
& b_{-2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \exp(-i(-2\phi_1 - 4\phi_3)) + b_{-2,0,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(-i(-2\phi_1 - 2\phi_4 + 2\phi_5)) + b_{-2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \exp(-i(-2\phi_1 - 4\phi_4)) + b_{-2,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \exp(-i(-2\phi_1 - 2\phi_5)) + b_{-2,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_5^4 \exp(-i(-2\phi_1 + 4\phi_5)) + \\
& b_{-2,0,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(-i(-2\phi_1 - 2\phi_5)) + b_{-2,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(-i(-2\phi_1 + 2\phi_4)) + b_{-2,0,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \exp(-i(-2\phi_1 + 2\phi_4)) + \\
& b_{-2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(-i(-2\phi_1 - 2\phi_5)) + b_{-2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(-i(-2\phi_1 + 2\phi_4)) + b_{-2,0,0,0,2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(-i(-2\phi_1 + 2\phi_3)) + \\
& b_{-2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(-i(-2\phi_1 + 2\phi_3)) + b_{-2,0,0,0,2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \exp(-i(-2\phi_1 + 2\phi_3)) + b_{-2,0,0,1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(-i(-2\phi_1 - 2\phi_5)) + \\
& b_{-2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(-i(-2\phi_1 + 2\phi_4)) + b_{-2,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(-i(-2\phi_1 + 2\phi_3)) + b_{-2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{-2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5)) + b_{-2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(-i(-2\phi_1 + 2\phi_2 - 2\phi_3)) + \\
& b_{-2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(-i(-2\phi_1 + 2\phi_2 - 2\phi_4)) + b_{-2,0,2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(-i(-2\phi_1 + 2\phi_2 + 2\phi_5)) + b_{-2,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \exp(-i(-2\phi_1 + 4\phi_2)) + \\
& b_{-2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(-i(-2\phi_1 - 2\phi_2)) + b_{-2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \exp(-i(-2\phi_1 - 2\phi_5)) + b_{-2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \exp(-i(-2\phi_1 + 2\phi_4)) + b_{-2,1,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \exp(-i(-2\phi_1 + 2\phi_3)) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \exp(-i(-3\phi_1 - \phi_2)) + b_{-3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(-i(-3\phi_1 - \phi_2)) + b_{-3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(-i(-3\phi_1 - \phi_2)) + b_{-3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \exp(-i(-3\phi_1 - \phi_2)) + b_{-3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(-3\phi_1 - \phi_3 + \phi_4 - \phi_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{-3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(-3\phi_1 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{-3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(-3\phi_1 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{-3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(-i(-3\phi_1 + \phi_2 - 2\phi_5)) + b_{-3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(-i(- \\
& 3\phi_1 + \phi_2 + 2\phi_4)) + b_{-3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(-i(-3\phi_1 + \phi_2 + 2\phi_3)) + \\
& b_{-3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \exp(-i(-3\phi_1 - \phi_2)) + b_{-4,0,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \exp(4i\phi_1) + \\
& b_{-4,0,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \exp(4i\phi_1) + b_{-4,0,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \exp(4i\phi_1) + \\
& b_{-4,0,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(4i\phi_1) + b_{-4,1,0,0,0,0,0,0,0,0}^r \rho_1^6 \exp(4i\phi_1) + \\
& b_{-5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \exp(-i(-5\phi_1 + \phi_2)) + b_{0,0,-1,0,-1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_2 - \phi_3 - \\
& \phi_4 + \phi_5)) + b_{0,0,-1,0,-1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_2 - \phi_3 - 3\phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,-1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_2 - \phi_3 + \phi_4 - 3\phi_5)) + \\
& b_{0,0,-1,0,-1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_2 - \phi_3 + \phi_4 + 3\phi_5)) + \\
& b_{0,0,-1,0,-1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_2 - \phi_3 + 3\phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,-1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_2 - 3\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,-3,0,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_2 - 3\phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_2 + \phi_3 - \phi_4 - 3\phi_5)) + \\
& b_{0,0,-1,0,1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_2 + \phi_3 - \phi_4 + 3\phi_5)) + \\
& b_{0,0,-1,0,1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_2 + \phi_3 - 3\phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,1,0,1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(-\phi_2 + \phi_3 + 3\phi_4 + \phi_5)) + \\
& b_{0,0,-1,0,1,1,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,3,0,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_2 + 3\phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,-1,0,3,0,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(-\phi_2 + 3\phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,-1,1,-1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,-1,1,1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-2,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(-i(-2\phi_2 - 2\phi_3 - 2\phi_4)) + \\
& b_{0,0,-2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(-i(-2\phi_2 - 2\phi_3 + 2\phi_5)) + b_{0,0,-2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \exp(-i(- \\
& 2\phi_2 - 4\phi_3)) + b_{0,0,-2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(-i(-2\phi_2 - 2\phi_4 + 2\phi_5)) + \\
& b_{0,0,-2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \exp(-i(-2\phi_2 - 4\phi_4)) + b_{0,0,-2,0,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \exp(-i(-2\phi_2 - 2\phi_5)) + \\
& b_{0,0,-2,0,0,0,0,4,0}^r \rho_2^2 \rho_5^4 \exp(-i(-2\phi_2 + 4\phi_5)) + b_{0,0,-2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(-i(-2\phi_2 - \\
& 2\phi_5)) + b_{0,0,-2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(-i(-2\phi_2 + 2\phi_4)) + b_{0,0,-2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \exp(-i(- \\
& 2\phi_2 + 2\phi_4)) + b_{0,0,-2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(-i(-2\phi_2 - 2\phi_5)) + \\
& b_{0,0,-2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(-i(-2\phi_2 + 2\phi_4)) + b_{0,0,-2,0,2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(-i(- \\
& 2\phi_2 + 2\phi_3)) + b_{0,0,-2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(-i(-2\phi_2 + 2\phi_3)) + \\
& b_{0,0,-2,0,2,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(-i(-2\phi_2 + 2\phi_3)) + b_{0,0,-2,1,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \exp(-i(-2\phi_2 - 2\phi_5)) + \\
& b_{0,0,-2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \exp(-i(-2\phi_2 + 2\phi_4)) + b_{0,0,-2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(-i(-2\phi_2 + 2\phi_3)) + \\
& b_{0,0,-3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(-3\phi_2 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,-3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(-3\phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(-3\phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,-4,0,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \exp(4i\phi_2) + b_{0,0,-4,0,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \exp(4i\phi_2) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,-4,0,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(4i\phi_2) + b_{0,0,-4,1,0,0,0,0,0,0}^r \rho_2^6 \exp(4i\phi_2) + \\
& b_{0,0,0,0,-2,0,-2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(-i(-2\phi_3 - 2\phi_4 - 2\phi_5)) + \\
& b_{0,0,0,0,-2,0,0,0,0,2}^r \rho_3^2 \rho_4^4 \exp(2i\phi_3) + b_{0,0,0,0,-2,0,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(2i\phi_3) + \\
& b_{0,0,0,0,-2,0,0,2,0,0}^r \rho_3^2 \rho_4^4 \exp(2i\phi_3) + b_{0,0,0,0,-2,0,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(-i(-2\phi_3 + 2\phi_4 + 2\phi_5)) + \\
& b_{0,0,0,0,-2,1,0,0,0,1}^r \rho_3^4 \rho_5^2 \exp(2i\phi_3) + b_{0,0,0,0,-2,1,0,1,0,0}^r \rho_3^4 \rho_4^2 \exp(2i\phi_3) + \\
& b_{0,0,0,0,-2,2,0,0,0,0}^r \rho_3^6 \exp(2i\phi_3) + b_{0,0,0,0,-4,0,0,0,-2,0}^r \rho_3^4 \rho_5^2 \exp(-i(-4\phi_3 - 2\phi_5)) + \\
& b_{0,0,0,0,-4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \exp(-i(-4\phi_3 + 2\phi_4)) + b_{0,0,0,0,0,0,-2,0,0,2}^r \rho_4^2 \rho_5^4 \exp(2i\phi_4) + \\
& b_{0,0,0,0,0,0,-2,1,0,1}^r \rho_4^4 \rho_5^2 \exp(2i\phi_4) + b_{0,0,0,0,0,0,-2,2,0,0}^r \rho_4^6 \exp(2i\phi_4) + \\
& b_{0,0,0,0,0,0,-4,0,-2,0}^r \rho_4^4 \rho_5^2 \exp(-i(-4\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,0,0,-4,1}^r \rho_5^6 \exp(4i\phi_5) + \\
& b_{0,0,0,0,0,0,0,0,2,2}^r \rho_5^6 \exp(-2i\phi_5) + b_{0,0,0,0,0,0,0,1,-4,0}^r \rho_4^2 \rho_5^4 \exp(4i\phi_5) + \\
& b_{0,0,0,0,0,0,0,1,2,1}^r \rho_4^2 \rho_5^4 \exp(-2i\phi_5) + b_{0,0,0,0,0,0,0,2,2,0}^r \rho_4^4 \rho_5^2 \exp(-2i\phi_5) + \\
& b_{0,0,0,0,0,0,2,0,-2,1}^r \rho_4^2 \rho_5^4 \exp(-i(2\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,0,2,0,4,0}^r \rho_4^2 \rho_5^4 \exp(-i(2\phi_4 + 4\phi_5)) + \\
& b_{0,0,0,0,0,0,2,1,-2,0}^r \rho_4^4 \rho_5^2 \exp(-i(2\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,0,4,0,0,1}^r \rho_4^4 \rho_5^2 \exp(-4i\phi_4) + \\
& b_{0,0,0,0,0,0,4,1,0,0}^r \rho_4^6 \exp(-4i\phi_4) + b_{0,0,0,0,0,1,-2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(2i\phi_4) + \\
& b_{0,0,0,0,0,1,-2,1,0,0}^r \rho_3^2 \rho_4^4 \exp(2i\phi_4) + b_{0,0,0,0,0,1,0,0,-4,0}^r \rho_3^2 \rho_5^4 \exp(4i\phi_5) + \\
& b_{0,0,0,0,0,1,0,0,2,1}^r \rho_3^2 \rho_4^4 \exp(-2i\phi_5) + b_{0,0,0,0,0,1,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(-2i\phi_5) + \\
& b_{0,0,0,0,0,1,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(-i(2\phi_4 - 2\phi_5)) + b_{0,0,0,0,0,1,4,0,0,0}^r \rho_3^2 \rho_4^4 \exp(-4i\phi_4) + \\
& b_{0,0,0,0,0,2,-2,0,0,0}^r \rho_3^4 \rho_4^2 \exp(2i\phi_4) + b_{0,0,0,0,0,2,0,0,2,0}^r \rho_3^4 \rho_5^2 \exp(-2i\phi_5) + \\
& b_{0,0,0,0,0,2,0,-2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(-i(2\phi_3 - 2\phi_4 + 2\phi_5)) + b_{0,0,0,0,0,2,0,-4,0,0,0}^r \rho_3^2 \rho_4^4 \exp(-i(2\phi_3 - \\
& 4\phi_4)) + b_{0,0,0,0,0,2,0,0,0,-2,1}^r \rho_3^2 \rho_5^4 \exp(-i(2\phi_3 - 2\phi_5)) + b_{0,0,0,0,0,2,0,0,4,0}^r \rho_3^2 \rho_5^4 \exp(-i(2\phi_3 + \\
& 4\phi_5)) + b_{0,0,0,0,0,2,0,0,1,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(-i(2\phi_3 - 2\phi_5)) + b_{0,0,0,0,0,2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \exp(- \\
& i(2\phi_3 + 2\phi_4)) + b_{0,0,0,0,0,2,0,2,1,0,0}^r \rho_3^2 \rho_4^4 \exp(-i(2\phi_3 + 2\phi_4)) + b_{0,0,0,0,0,2,1,0,0,-2,0}^r \rho_3^4 \rho_5^2 \exp(- \\
& i(2\phi_3 - 2\phi_5)) + b_{0,0,0,0,0,2,1,2,0,0,0}^r \rho_3^4 \rho_4^2 \exp(-i(2\phi_3 + 2\phi_4)) + b_{0,0,0,0,0,4,0,0,0,1}^r \rho_3^4 \rho_5^2 \exp(- \\
& 4i\phi_3) + b_{0,0,0,0,0,4,0,0,1,0,0}^r \rho_3^4 \rho_4^2 \exp(-4i\phi_3) + b_{0,0,0,0,4,1,0,0,0,0}^r \rho_3^6 \exp(-4i\phi_3) + \\
& b_{0,0,0,0,1,-2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(2i\phi_3) + b_{0,0,0,0,1,-2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(2i\phi_3) + \\
& b_{0,0,0,0,1,-2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \exp(2i\phi_3) + b_{0,0,0,0,1,0,0,-2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(2i\phi_4) + \\
& b_{0,0,0,0,1,0,0,-2,1,0,0}^r \rho_2^2 \rho_4^4 \exp(2i\phi_4) + b_{0,0,0,0,1,0,0,0,0,-4,0}^r \rho_2^2 \rho_5^4 \exp(4i\phi_5) + \\
& b_{0,0,0,0,1,0,0,0,0,2,1}^r \rho_2^2 \rho_5^4 \exp(-2i\phi_5) + b_{0,0,0,0,1,0,0,0,1,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(-2i\phi_5) + \\
& b_{0,0,0,0,1,0,0,2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(-i(2\phi_4 - 2\phi_5)) + b_{0,0,0,0,1,0,0,4,0,0,0}^r \rho_2^2 \rho_4^4 \exp(-4i\phi_4) + \\
& b_{0,0,0,0,1,0,1,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(2i\phi_4) + b_{0,0,0,0,1,0,1,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(-2i\phi_5) + \\
& b_{0,0,0,0,1,2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(-i(2\phi_3 - 2\phi_5)) + b_{0,0,0,0,1,2,0,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(-i(2\phi_3 + \\
& 2\phi_4)) + b_{0,0,0,0,1,4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \exp(-4i\phi_3) + b_{0,0,0,0,2,-2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(2i\phi_3) + \\
& b_{0,0,0,0,2,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \exp(2i\phi_4) + b_{0,0,0,0,2,0,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \exp(-2i\phi_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,1,0,-1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,1,0,-1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,-1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,-1,1,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,1,0,-1,1,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_2 - 3\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,1,0,1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,1,0,1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_2 + \phi_3 - 3\phi_4 - \phi_5)) + \\
& b_{0,0,1,0,1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_2 + \phi_3 + \phi_4 - 3\phi_5)) + \\
& b_{0,0,1,0,1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_2 + \phi_3 + \phi_4 + 3\phi_5)) + \\
& b_{0,0,1,0,1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_2 + \phi_3 + 3\phi_4 - \phi_5)) + \\
& b_{0,0,1,0,1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,1,0,3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_2 + 3\phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,1,1,-1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,1,1,-1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,0,1,1,1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,0,2,0,-2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(-i(2\phi_2 - 2\phi_3 - 2\phi_5)) + b_{0,0,2,0,-2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(- \\
& i(2\phi_2 - 2\phi_3 + 2\phi_4)) + b_{0,0,2,0,0,0,-2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(-i(2\phi_2 - 2\phi_4 - 2\phi_5)) + \\
& b_{0,0,2,0,0,0,0,0,0,2}^r \rho_2^2 \rho_5^4 \exp(-2i\phi_2) + b_{0,0,2,0,0,0,1,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(-2i\phi_2) + \\
& b_{0,0,2,0,0,0,0,2,0,0}^r \rho_2^2 \rho_4^4 \exp(-2i\phi_2) + b_{0,0,2,0,0,0,2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \exp(-i(2\phi_2 + 2\phi_4 + 2\phi_5)) + \\
& b_{0,0,2,0,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(-2i\phi_2) + b_{0,0,2,0,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(-2i\phi_2) + \\
& b_{0,0,2,0,0,2,0,0,0,0}^r \rho_2^2 \rho_3^4 \exp(-2i\phi_2) + b_{0,0,2,0,2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \exp(-i(2\phi_2 + 2\phi_3 - 2\phi_4)) + \\
& b_{0,0,2,0,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \exp(-i(2\phi_2 + 2\phi_3 + 2\phi_5)) + b_{0,0,2,1,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \exp(-2i\phi_2) + \\
& b_{0,0,2,1,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \exp(-2i\phi_2) + b_{0,0,2,1,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(-2i\phi_2) + \\
& b_{0,0,2,2,0,0,0,0,0,0}^r \rho_2^6 \exp(-2i\phi_2) + b_{0,0,3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(3\phi_2 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,0,3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(3\phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{0,0,3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \exp(-i(3\phi_2 + \phi_3 + \phi_4 + \phi_5)) + b_{0,0,4,0,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \exp(- \\
& i(4\phi_2 - 2\phi_5)) + b_{0,0,4,0,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \exp(-i(4\phi_2 + 2\phi_4)) + b_{0,0,4,0,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \exp(- \\
& i(4\phi_2 + 2\phi_3)) + b_{0,1,-1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,1,-1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(-\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{0,1,-2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(-i(-2\phi_2 - 2\phi_5)) + b_{0,1,-2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(-i(- \\
& 2\phi_2 + 2\phi_4)) + b_{0,1,-2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(-i(-2\phi_2 + 2\phi_3)) + \\
& b_{0,1,-4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \exp(4i\phi_2) + b_{0,1,0,0,-2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(2i\phi_3) + \\
& b_{0,1,0,0,-2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(2i\phi_3) + b_{0,1,0,0,-2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \exp(2i\phi_3) + \\
& b_{0,1,0,0,0,0,-2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(2i\phi_4) + b_{0,1,0,0,0,0,-2,1,0,0}^r \rho_1^2 \rho_4^4 \exp(2i\phi_4) + \\
& b_{0,1,0,0,0,0,0,0,-4,0}^r \rho_1^2 \rho_5^4 \exp(4i\phi_5) + b_{0,1,0,0,0,0,0,0,2,1}^r \rho_1^2 \rho_5^4 \exp(-2i\phi_5) + \\
& b_{0,1,0,0,0,0,0,1,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(-2i\phi_5) + b_{0,1,0,0,0,0,2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(-i(2\phi_4 - 2\phi_5)) + \\
& b_{0,1,0,0,0,0,4,0,0,0}^r \rho_1^2 \rho_4^4 \exp(-4i\phi_4) + b_{0,1,0,0,0,1,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(2i\phi_4) + \\
& b_{0,1,0,0,0,1,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(-2i\phi_5) + b_{0,1,0,0,2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(-i(2\phi_3 - 2\phi_5)) + \\
& b_{0,1,0,0,2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(-i(2\phi_3 + 2\phi_4)) + b_{0,1,0,0,4,0,0,0,0,0}^r \rho_1^4 \rho_3^4 \exp(-4i\phi_3) + \\
& b_{0,1,0,1,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(2i\phi_3) + b_{0,1,0,1,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(2i\phi_4) + \\
& b_{0,1,0,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(-2i\phi_5) + b_{0,1,1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_2 - \\
& \phi_3 - \phi_4 - \phi_5)) + b_{0,1,1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{0,1,1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{0,1,2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(-2i\phi_2) + b_{0,1,2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(-2i\phi_2) + \\
& b_{0,1,2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(-2i\phi_2) + b_{0,1,2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \exp(-2i\phi_2) + \\
& b_{0,2,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \exp(2i\phi_3) + b_{0,2,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \exp(2i\phi_4) + \\
& b_{0,2,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \exp(-2i\phi_5) + b_{0,2,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(-2i\phi_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(\phi_1 - \phi_2 - 2\phi_3)) +
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,-1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(\phi_1 - \phi_2 - 2\phi_3)) + b_{1,0,-1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(- \\
& i(\phi_1 - \phi_2 - 2\phi_3)) + b_{1,0,-1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(-i(\phi_1 - \phi_2 - 2\phi_4)) + \\
& b_{1,0,-1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(-i(\phi_1 - \phi_2 - 2\phi_4)) + b_{1,0,-1,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \exp(-i(\phi_1 - \\
& \phi_2 - 4\phi_5)) + b_{1,0,-1,0,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \exp(-i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,0,-1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(-i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,0,-1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(-i(\phi_1 - \phi_2 + 2\phi_4 - 2\phi_5)) + \\
& b_{1,0,-1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \exp(-i(\phi_1 - \phi_2 + 4\phi_4)) + b_{1,0,-1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(- \\
& i(\phi_1 - \phi_2 - 2\phi_4)) + b_{1,0,-1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,0,-1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_5)) + \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_4)) + \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(-i(\phi_1 - \phi_2 + 4\phi_3)) + b_{1,0,-1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(-i(\phi_1 - \\
& \phi_2 - 2\phi_3)) + b_{1,0,-1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(-i(\phi_1 - \phi_2 - 2\phi_4)) + \\
& b_{1,0,-1,1,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(-i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,0,-2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - 2\phi_2 - \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,-2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,-3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(-i(\phi_1 - 3\phi_2 - 2\phi_5)) + b_{1,0,-3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(- \\
& i(\phi_1 - 3\phi_2 + 2\phi_4)) + b_{1,0,-3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(-i(\phi_1 - 3\phi_2 + 2\phi_3)) + \\
& b_{1,0,-5,0,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \exp(-i(\phi_1 - 5\phi_2)) + b_{1,0,0,0,-1,0,-1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_1 - \phi_3 - \\
& \phi_4 - \phi_5)) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,0,0,-1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,-1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,-1,1,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,0,0,-1,1,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,-3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_1 - 3\phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,0,0,1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_1 + \phi_3 - 3\phi_4 - \phi_5)) + \\
& b_{1,0,0,0,1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_1 + \phi_3 + \phi_4 - 3\phi_5)) + \\
& b_{1,0,0,0,1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \exp(-i(\phi_1 + \phi_3 + \phi_4 + 3\phi_5)) + \\
& b_{1,0,0,0,1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \exp(-i(\phi_1 + \phi_3 + 3\phi_4 - \phi_5)) + \\
& b_{1,0,0,0,1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,0,0,3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \exp(-i(\phi_1 + 3\phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,0,1,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,0,1,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,0,1,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{1,0,1,0,-2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_5)) + \\
& b_{1,0,1,0,-2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_4)) + \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(-i(\phi_1 + \phi_2 - 2\phi_4 - 2\phi_5)) + \\
& b_{1,0,1,0,0,0,0,0,2}^r \rho_1 \rho_2 \rho_5^4 \exp(-i(\phi_1 + \phi_2)) + b_{1,0,1,0,0,0,1,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(-i(\phi_1 + \\
& \phi_2)) + b_{1,0,1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_4^4 \exp(-i(\phi_1 + \phi_2)) + b_{1,0,1,0,0,0,2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \exp(- \\
& i(\phi_1 + \phi_2 + 2\phi_4 + 2\phi_5)) + b_{1,0,1,0,0,1,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(\phi_1 + \phi_2)) + \\
& b_{1,0,1,0,0,1,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(\phi_1 + \phi_2)) + b_{1,0,1,0,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \exp(-i(\phi_1 +
\end{aligned}$$



$$\begin{aligned}
& \phi_2)) + b_{1,0,1,0,2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \exp(-i(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_4)) + \\
& b_{1,0,1,0,2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \exp(-i(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5)) + \\
& b_{1,0,1,1,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \exp(-i(\phi_1 + \phi_2)) + b_{1,0,1,1,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(-i(\phi_1 + \phi_2)) + \\
& b_{1,0,1,1,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(-i(\phi_1 + \phi_2)) + b_{1,0,1,2,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \exp(-i(\phi_1 + \phi_2)) + \\
& b_{1,0,2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 - \phi_5)) + \\
& b_{1,0,2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,0,2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,0,3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \exp(-i(\phi_1 + 3\phi_2 - 2\phi_5)) + b_{1,0,3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \exp(-i(\phi_1 + \\
& 3\phi_2 + 2\phi_4)) + b_{1,0,3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \exp(-i(\phi_1 + 3\phi_2 + 2\phi_3)) + \\
& b_{1,1,-1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(-i(\phi_1 - \phi_2 - 2\phi_3)) + b_{1,1,-1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(- \\
& i(\phi_1 - \phi_2 - 2\phi_4)) + b_{1,1,-1,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(-i(\phi_1 - \phi_2 + 2\phi_5)) + \\
& b_{1,1,0,0,-1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{1,1,0,0,-1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{1,1,0,0,1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(\phi_1 + \phi_3 - \phi_4 + \phi_5)) + b_{1,1,1,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \exp(- \\
& i(\phi_1 + \phi_2)) + b_{1,1,1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(-i(\phi_1 + \phi_2)) + b_{1,1,1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(- \\
& i(\phi_1 + \phi_2)) + b_{1,1,1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \exp(-i(\phi_1 + \phi_2)) + b_{1,2,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \exp(-i(\phi_1 + \\
& \phi_2)) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_1 - \phi_2 - \phi_3 - \phi_4 - \phi_5)) + \\
& b_{2,0,-1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5)) + \\
& b_{2,0,-1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_1 - \phi_2 + \phi_3 - \phi_4 + \phi_5)) + \\
& b_{2,0,-2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(-i(2\phi_1 - 2\phi_2 - 2\phi_3)) + b_{2,0,-2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(- \\
& i(2\phi_1 - 2\phi_2 - 2\phi_4)) + b_{2,0,-2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(-i(2\phi_1 - 2\phi_2 + 2\phi_5)) + \\
& b_{2,0,0,0,-2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(-i(2\phi_1 - 2\phi_3 - 2\phi_5)) + b_{2,0,0,0,-2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(- \\
& i(2\phi_1 - 2\phi_3 + 2\phi_4)) + b_{2,0,0,0,0,0,-2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(-i(2\phi_1 - 2\phi_4 - 2\phi_5)) + \\
& b_{2,0,0,0,0,0,0,0,2}^r \rho_1^4 \rho_5^2 \exp(-2i\phi_1) + b_{2,0,0,0,0,0,0,1,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(-2i\phi_1) + \\
& b_{2,0,0,0,0,0,2,0,0}^r \rho_1^2 \rho_4^2 \exp(-2i\phi_1) + b_{2,0,0,0,0,2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \exp(-i(2\phi_1 + 2\phi_4 + 2\phi_5)) + \\
& b_{2,0,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(-2i\phi_1) + b_{2,0,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(-2i\phi_1) + \\
& b_{2,0,0,0,2,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \exp(-2i\phi_1) + b_{2,0,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \exp(-i(2\phi_1 + 2\phi_3 - 2\phi_4)) + \\
& b_{2,0,0,0,2,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \exp(-i(2\phi_1 + 2\phi_3 + 2\phi_5)) + b_{2,0,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(- \\
& 2i\phi_1) + b_{2,0,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(-2i\phi_1) + b_{2,0,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(-2i\phi_1) + \\
& b_{2,0,0,2,0,0,0,0,0,0}^r \rho_1^2 \rho_4^2 \exp(-2i\phi_1) + b_{2,0,1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_1 + \phi_2 - \\
& \phi_3 + \phi_4 - \phi_5)) + b_{2,0,1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{2,0,1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \exp(-i(2\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5)) + \\
& b_{2,0,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \exp(-i(2\phi_1 + 2\phi_2 - 2\phi_5)) + b_{2,0,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \exp(- \\
& i(2\phi_1 + 2\phi_2 + 2\phi_4)) + b_{2,0,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \exp(-i(2\phi_1 + 2\phi_2 + 2\phi_3)) + \\
& b_{2,1,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \exp(-2i\phi_1) + b_{2,1,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \exp(-2i\phi_1) + \\
& b_{2,1,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \exp(-2i\phi_1) + b_{2,1,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(-2i\phi_1) + \\
& b_{2,2,0,0,0,0,0,0,0,0}^r \rho_1^6 \exp(-2i\phi_1) + b_{3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \exp(-i(3\phi_1 - \phi_2)) + \\
& b_{3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(-i(3\phi_1 - \phi_2)) + b_{3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(-i(3\phi_1 - \\
& \phi_2)) + b_{3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \exp(-i(3\phi_1 - \phi_2)) + b_{3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(3\phi_1 - \\
& \phi_3 + \phi_4 - \phi_5)) + b_{3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(3\phi_1 + \phi_3 - \phi_4 - \phi_5)) + \\
& b_{3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \exp(-i(3\phi_1 + \phi_3 + \phi_4 + \phi_5)) + b_{3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \exp(- \\
& i(3\phi_1 + \phi_2 - 2\phi_5)) + b_{3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \exp(-i(3\phi_1 + \phi_2 + 2\phi_4)) +
\end{aligned}$$

$$b_{3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \exp(-i(3\phi_1 + \phi_2 + 2\phi_3)) + b_{3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \exp(-i(3\phi_1 - \phi_2)) + b_{4,0,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \exp(-i(4\phi_1 - 2\phi_2)) + b_{4,0,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \exp(-i(4\phi_1 - 2\phi_5)) + b_{4,0,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \exp(-i(4\phi_1 + 2\phi_4)) + b_{4,0,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \exp(-i(4\phi_1 + 2\phi_3))$$

**Cartesian e-coordinates:**

$$\begin{aligned} H_{++}^{(6)} = & a_{0,0,0,0,0,0,0,0,0,3}^r (x_5^2 + y_5^2)^3 + a_{0,0,0,0,0,0,0,0,6,0}^r (x_5 - y_5)(x_5 + y_5)(x_5^2 - 4x_5y_5 + y_5^2)(x_5^2 + 4x_5y_5 + y_5^2) + \\ & a_{0,0,0,0,0,0,0,1,0,2}^r (x_4^2 + y_4^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,0,0,2,0,1}^r (x_4^2 + y_4^2)^2 (x_5^2 + y_5^2) + \\ & a_{0,0,0,0,0,0,0,3,0,0}^r (x_4^2 + y_4^2)^3 + a_{0,0,0,0,0,0,0,2,0,-4,0}^r (x_4(x_5^2 - 2x_5y_5 - y_5^2) + y_4(x_5^2 + 2x_5y_5 - y_5^2))(x_4(x_5^2 + 2x_5y_5 - y_5^2) + y_4(-x_5^2 + 2x_5y_5 + y_5^2)) + a_{0,0,0,0,0,0,0,2,0,2,1}^r (x_5^2 + y_5^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,0,0,2,1,2,0}^r (x_4^2 + y_4^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,0,0,4,0,-2,0}^r (x_4(-2x_5y_4 + 2y_4y_5) + x_5(x_4^2 - y_4^2) + y_5(x_4^2 - y_4^2))(x_4(2x_5y_4 + 2y_4y_5) + x_5(x_4^2 - y_4^2) + y_5(-x_4^2 + y_4^2)) + a_{0,0,0,0,0,0,0,6,0,0,0}^r (x_4 - y_4)(x_4 + y_4)(x_4^2 - 4x_4y_4 + y_4^2)(x_4^2 + 4x_4y_4 + y_4^2) + a_{0,0,0,0,0,1,0,0,0,2}^r (x_3^2 + y_3^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,1,0,1,0,1}^r (x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,0,0,1,0,2,0,0}^r (x_3^2 + y_3^2)(x_4^2 + y_4^2)^2 + a_{0,0,0,0,0,1,2,0,2,0}^r (x_3^2 + y_3^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,2,0,0,0,1}^r (x_3^2 + y_3^2)^2 (x_5^2 + y_5^2) + a_{0,0,0,0,0,2,0,1,0,0}^r (x_3^2 + y_3^2)^2 (x_4^2 + y_4^2) + a_{0,0,0,0,0,3,0,0,0,0}^r (x_3^2 + y_3^2)^3 + a_{0,0,0,0,0,2,0,-2,0,0,1}^r (x_5^2 + y_5^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 - y_4)) + a_{0,0,0,0,0,2,0,-2,1,0,0}^r (x_4^2 + y_4^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 - y_4)) + a_{0,0,0,0,0,2,0,0,0,-4,0}^r (x_3(x_5^2 - 2x_5y_5 - y_5^2) + y_3(x_5^2 + 2x_5y_5 - y_5^2))(x_3(x_5^2 + 2x_5y_5 - y_5^2) + y_3(-x_5^2 + 2x_5y_5 + y_5^2)) + a_{0,0,0,0,0,2,0,0,0,2,1}^r (x_5^2 + y_5^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,0,0,0,0,2,0,0,1,2,0}^r (x_4^2 + y_4^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,0,0,0,0,2,0,2,0,-2,0}^r (x_3(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5) + y_3(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5))(x_3(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + y_3(-x_4x_5 + x_4y_5 - x_5y_4 - y_4y_5)) + a_{0,0,0,0,0,2,0,4,0,0,0}^r (x_3(x_4^2 - 2x_4y_4 - y_4^2) + y_3(-x_4^2 - 2x_4y_4 + y_4^2))(x_3(x_4^2 + 2x_4y_4 - y_4^2) + y_3(x_4^2 - 2x_4y_4 - y_4^2)) + a_{0,0,0,0,0,2,1,-2,0,0,0}^r (x_3^2 + y_3^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 - y_4)) + a_{0,0,0,0,0,2,1,0,0,2,0}^r (x_3^2 + y_3^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,0,0,0,0,4,0,0,0,-2,0}^r (x_3(-2x_5y_3 + 2y_3y_5) + x_5(x_3^2 - y_3^2) + y_5(x_3^2 - y_3^2))(x_3(2x_5y_3 + 2y_3y_5) + x_5(x_3^2 - y_3^2) + y_5(-x_3^2 + y_3^2)) + a_{0,0,0,0,0,4,0,2,0,0,0}^r (x_3(-2x_4y_3 - 2y_3y_4) + x_4(x_3^2 - y_3^2) + y_4(-x_3^2 + y_3^2))(x_3(2x_4y_3 - 2y_3y_4) + x_4(x_3^2 - y_3^2) + y_4(x_3^2 - y_3^2)) + a_{0,0,0,0,0,6,0,0,0,0,0}^r (x_3 - y_3)(x_3 + y_3)(x_3^2 - 4x_3y_3 + y_3^2)(x_3^2 + 4x_3y_3 + y_3^2) + a_{0,0,0,0,1,0,0,0,0,0,2}^r (x_2^2 + y_2^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,0,1,0,0,0,1,0,1}^r (x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,0,1,0,0,0,2,0,0}^r (x_2^2 + y_2^2)(x_4^2 + y_4^2)^2 + a_{0,0,0,0,1,0,0,0,2,0,2,0}^r (x_2^2 + y_2^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,1,0,1,0,0,0,1}^r (x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_5^2 + y_5^2) + a_{0,0,0,0,1,0,1,0,1,0,0}^r (x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + a_{0,0,0,0,1,0,2,0,0,0,0}^r (x_2^2 + y_2^2)(x_3^2 + y_3^2)^2 + a_{0,0,0,0,1,2,0,-2,0,0,0}^r (x_2^2 + y_2^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 - y_4)) + a_{0,0,0,0,1,2,0,0,0,2,0}^r (x_2^2 + y_2^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,0,0,0,2,0,0,0,0,0,1}^r (x_2^2 + y_2^2)^2 (x_5^2 + y_5^2) + a_{0,0,0,0,2,0,0,0,1,0,0}^r (x_2^2 + y_2^2)^2 (x_4^2 + y_4^2) + a_{0,0,0,0,2,0,1,0,0,0,0}^r (x_2^2 + y_2^2)^2 (x_3^2 + y_3^2) + a_{0,0,0,0,3,0,0,0,0,0,0}^r (x_2^2 + y_2^2)^3 + a_{0,0,1,0,-1,0,-1,0,-3,0}^r (x_2(x_3x_4x_5^3 - 3x_3x_4x_5y_5^2 - 3x_3x_5^2y_4y_5 + x_3y_4y_5^3 - 3x_4x_5^2y_3y_5 + x_4y_3y_5^3 - x_5^3y_3y_4 + 3x_5y_3y_4y_5^2) + y_2(3x_3x_4x_5^2y_5 - x_3x_4y_5^3 + x_3x_5^3y_4 - 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - 3x_4x_5y_3y_5^2 - 3x_5^2y_3y_4y_5 + y_3y_4y_5^3)) + a_{0,0,1,0,-1,0,-1,0,3,0}^r (x_2(x_3x_4x_5^3 - 3x_3x_4x_5y_5^2 + 3x_3x_5^2y_4y_5 - x_3y_4y_5^3 + 3x_4x_5^2y_3y_5 - x_4y_3y_5^3 - x_5^3y_3y_4 + 3x_5y_3y_4y_5^2) + y_2(-3x_3x_4x_5^2y_5 + x_3x_4y_5^3 + x_3x_5^3y_4 - 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - 3x_4x_5y_3y_5^2 + 3x_5^2y_3y_4y_5 - y_3y_4y_5^3)) + a_{0,0,1,0,-1,0,-3,0,1,0}^r (x_2(x_3x_4^3x_5 + 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 - x_3y_4^3y_5 + x_4^3y_3y_5 -$$

$$\begin{aligned}
& 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 + x_5y_3y_4^3) + y_2(-x_3x_4^3y_5 + 3x_3x_4^2x_5y_4 + 3x_3x_4y_4^2y_5 - \\
& x_3x_5y_4^3 + x_4^3x_5y_3 + 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 - y_3y_4^3y_5)) + a_{0,0,1,0,-1,0,1,0,-1,1}^r(x_5^2 + \\
& y_5^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,1,0,-1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,-1,0,3,0,1,0}^r(x_2(x_3x_4^3x_5 - 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 + x_3y_4^3y_5 + \\
& x_4^3y_3y_5 + 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 - x_5y_3y_4^3) + y_2(-x_3x_4^3y_5 - 3x_3x_4^2x_5y_4 + \\
& 3x_3x_4y_4^2y_5 + x_3x_5y_4^3 + x_4^3x_5y_3 - 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 + y_3y_4^3y_5)) + \\
& a_{0,0,1,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,-3,0,-1,0,1,0}^r(x_2(x_3^3x_4x_5 + x_3^3y_4y_5 + 3x_3^2x_4y_3y_5 - 3x_3^2x_5y_3y_4 - \\
& 3x_3x_4x_5y_3^2 - 3x_3y_3^2y_4y_5 - x_4y_3^3y_5 + x_5y_3^3y_4) + y_2(-x_3^3x_4y_5 + x_3^3x_5y_4 + \\
& 3x_3^2x_4x_5y_3 + 3x_3^2y_3y_4y_5 + 3x_3x_4y_3^2y_5 - 3x_3x_5y_3^2y_4 - x_4x_5y_3^3 - y_3^3y_4y_5)) + \\
& a_{0,0,1,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + \\
& y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - \\
& x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,1,1,1,0}^r(x_4^2 + \\
& y_4^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,1,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,3,0,-1,0,1,0}^r(x_2(x_3^3x_4x_5 + x_3^3y_4y_5 - 3x_3^2x_4y_3y_5 + \\
& 3x_3^2x_5y_3y_4 - 3x_3x_4x_5y_3^2 - 3x_3y_3^2y_4y_5 + x_4y_3^3y_5 - x_5y_3^3y_4) + y_2(-x_3^3x_4y_5 + \\
& x_3^3x_5y_4 - 3x_3^2x_4x_5y_3 - 3x_3^2y_3y_4y_5 + 3x_3x_4y_3^2y_5 - 3x_3x_5y_3^2y_4 + x_4x_5y_3^3 + \\
& y_3^3y_4y_5)) + a_{0,0,1,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - \\
& x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,1,1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + \\
& x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2(x_3x_4x_5 - \\
& x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,2,0,-2,0,-2,0,0,0}^r(x_2(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4) + y_2(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4))(x_2(x_3x_4 + x_3y_4 + \\
& x_4y_3 - y_3y_4) + y_2(-x_3x_4 + x_3y_4 + x_4y_3 + y_3y_4)) + a_{0,0,2,0,-2,0,0,0,2,0}^r(x_2(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5) + y_2(- \\
& x_3x_5 - x_3y_5 + x_5y_3 - y_3y_5))(x_2(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) + y_2(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)) + \\
& a_{0,0,2,0,-4,0,0,0,0,0}^r(x_2(x_3^2 - 2x_3y_3 - y_3^2) + y_2(x_3^2 + 2x_3y_3 - y_3^2))(x_2(x_3^2 + 2x_3y_3 - y_3^2) + y_2(-x_3^2 + \\
& 2x_3y_3 + y_3^2)) + a_{0,0,2,0,0,0,-2,0,2,0}^r(x_2(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5) + y_2(-x_4x_5 - x_4y_5 + x_5y_4 - \\
& y_4y_5))(x_2(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + y_2(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)) + a_{0,0,2,0,0,0,-4,0,0,0}^r(x_2(x_4^2 - \\
& 2x_4y_4 - y_4^2) + y_2(x_4^2 + 2x_4y_4 - y_4^2))(x_2(x_4^2 + 2x_4y_4 - y_4^2) + y_2(-x_4^2 + 2x_4y_4 + y_4^2)) + \\
& a_{0,0,2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,0,0,4,0}^r(x_2(x_5^2 - 2x_5y_5 - y_5^2) + y_2(-x_5^2 - 2x_5y_5 + y_5^2))(x_2(x_5^2 + 2x_5y_5 - y_5^2) + y_2(x_5^2 - \\
& 2x_5y_5 - y_5^2)) + a_{0,0,2,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,0,0,2,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2(x_5 - y_5) + \\
& y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,0,2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + \\
& y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + \\
& a_{0,0,2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,0,2,0,2,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,0,2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2(x_5 - y_5) + \\
& y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,0,2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 +
\end{aligned}$$

$$\begin{aligned}
& y_4) + y_2(x_4 - y_4)) + a_{0,0,2,1,2,0,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + \\
& a_{0,0,3,0,-1,0,-1,0,1,0}^r(x_2(-3x_3x_4x_5y_2^2 - 3x_3y_2^2y_4y_5 - 3x_4y_2^2y_3y_5 + 3x_5y_2^2y_3y_4) + \\
& x_3(x_2^2x_4x_5 + x_2^2y_4y_5 + x_4y_2^2y_5 - x_5y_2^2y_4) + y_2(-3x_2^2x_3x_4y_5 + 3x_2^2x_3x_5y_4 + \\
& 3x_2^2x_4x_5y_3 + 3x_2^2y_3y_4y_5) + y_3(x_2^3x_4y_5 - x_2^3x_5y_4 - x_4x_5y_2^2 - y_2^3y_4y_5)) + \\
& a_{0,0,3,0,1,0,1,0,-1,0}^r(x_2(-3x_3x_4x_5y_2^2 - 3x_3y_2^2y_4y_5 - 3x_4y_2^2y_3y_5 + 3x_5y_2^2y_3y_4) + x_3(x_2^3x_4x_5 + \\
& x_2^3y_4y_5 - x_4y_2^2y_5 + x_5y_2^2y_4) + y_2(3x_2^2x_3x_4y_5 - 3x_2^2x_3x_5y_4 - 3x_2^2x_4x_5y_3 - \\
& 3x_2^2y_3y_4y_5) + y_3(x_2^3x_4y_5 - x_2^3x_5y_4 + x_4x_5y_2^2 + y_2^3y_4y_5)) + a_{0,0,4,0,-2,0,0,0,0,0}^r(x_2(-2x_3y_2 + \\
& 2y_2y_3) + x_3(x_2^2 - y_2^2) + y_3(x_2^2 - y_2^2))(x_2(2x_3y_2 + 2y_2y_3) + x_3(x_2^2 - y_2^2) + y_3(-x_2^2 + y_2^2)) + \\
& a_{0,0,4,0,0,0,-2,0,0,0}^r(x_2(-2x_4y_2 + 2y_2y_4) + x_4(x_2^2 - y_2^2) + y_4(x_2^2 - y_2^2))(x_2(2x_4y_2 + 2y_2y_4) + x_4(x_2^2 - \\
& y_2^2) + y_4(-x_2^2 + y_2^2)) + a_{0,0,4,0,0,0,0,0,2,0}^r(x_2(-2x_5y_2 - 2y_2y_5) + x_5(x_2^2 - y_2^2) + y_5(-x_2^2 + \\
& y_2^2))(x_2(2x_5y_2 - 2y_2y_5) + x_5(x_2^2 - y_2^2) + y_5(x_2^2 - y_2^2)) + a_{0,0,6,0,0,0,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 - \\
& 4x_2y_2 + y_2^2)(x_2^2 + 4x_2y_2 + y_2^2) + a_{0,1,0,0,0,0,0,0,0,2}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)^2 + a_{0,1,0,0,0,0,0,1,0,1}^r(x_1^2 + \\
& y_1^2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,0,0,2,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)^2 + a_{0,1,0,0,0,0,2,0,2,0}^r(x_1^2 + \\
& y_1^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,1,0,0,0,1,0,0,0,1}^r(x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,1,0,1,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + a_{0,1,0,0,0,2,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_3^2 + y_3^2)^2 + a_{0,1,0,0,2,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + \\
& a_{0,1,0,0,2,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,1,0,1,0,0,0,0,0,1}^r(x_1^2 + \\
& y_1^2)(x_2^2 + y_2^2)(x_5^2 + y_5^2) + a_{0,1,0,1,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& a_{0,1,0,1,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_3^2 + y_3^2) + a_{0,1,0,2,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)^2 + \\
& a_{0,1,1,0,-1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,1,1,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + \\
& y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,1,1,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - \\
& x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,1,2,0,0,0,0,0,-2,0}^r(x_1^2 + \\
& y_1^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,1,2,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_4 - y_4) + y_2(- \\
& x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,1,2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + \\
& y_2(x_3 - y_3)) + a_{0,2,0,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)^2(x_5^2 + y_5^2) + a_{0,2,0,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)^2(x_4^2 + y_4^2) + \\
& a_{0,2,0,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_3^2 + y_3^2) + a_{0,2,0,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_2^2 + y_2^2) + \\
& a_{0,3,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^3 + a_{1,0,-1,0,-2,0,0,0,-2,0}^r(x_1(x_2x_3^2x_5^2 - x_2x_3^2y_5^2 - 4x_2x_3x_5y_3y_5 - \\
& x_2x_5^2y_3^2 + x_2y_3^2y_5^2 - 2x_3^2x_5y_2y_5 - 2x_3x_5^2y_2y_3 + 2x_3y_2y_3y_5^2 + 2x_5y_2y_3^2y_5) + \\
& y_1(2x_2x_3^2x_5y_5 + 2x_2x_3x_5^2y_3 - 2x_2x_3y_3y_5^2 - 2x_2x_5y_3^2y_5 + x_3^2x_5^2y_2 - x_3^2y_2y_5^2 - \\
& 4x_3x_5y_2y_3y_5 - x_5^2y_2y_3^2 + y_2y_3^2y_5^2)) + a_{1,0,-1,0,-2,0,2,0,0,0}^r(x_1(x_2x_3^2x_4^2 - x_2x_3^2y_4^2 + \\
& 4x_2x_3x_4y_3y_4 - x_2x_4^2y_3^2 + x_2y_3^2y_4^2 + 2x_3^2x_4y_2y_4 - 2x_3x_4^2y_2y_3 + 2x_3y_2y_3y_4^2 - \\
& 2x_4y_2y_3^2y_4) + y_1(-2x_2x_3^2x_4y_4 + 2x_2x_3x_4^2y_3 - 2x_2x_3y_3y_4^2 + 2x_2x_4y_3^2y_4 + x_3^2x_4^2y_2 - \\
& x_3^2y_2y_4^2 + 4x_3x_4y_2y_3y_4 - x_4^2y_2y_3^2 + y_2y_3^2y_4^2)) + a_{1,0,-1,0,0,0,-2,0,-2,0}^r(x_1(x_2x_4^2x_5^2 - \\
& x_2x_4^2y_5^2 - 4x_2x_4x_5y_4y_5 - x_2x_5^2y_4^2 + x_2y_4^2y_5^2 - 2x_4^2x_5y_2y_5 - 2x_4x_5^2y_2y_4 + \\
& 2x_4y_2y_4y_5^2 + 2x_5y_2y_4^2y_5) + y_1(2x_2x_4^2x_5y_5 + 2x_2x_4x_5^2y_4 - 2x_2x_4y_4y_5^2 - \\
& 2x_2x_5y_4^2y_5 + x_4^2x_5^2y_2 - x_4^2y_2y_5^2 - 4x_4x_5y_2y_4y_5 - x_5^2y_2y_4^2 + y_2y_4^2y_5^2)) + \\
& a_{1,0,-1,0,0,0,0,0,0,2}^r(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + \\
& a_{1,0,-1,0,0,0,0,2,0,0}^r(x_4^2 + y_4^2)^2(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,0,2,0,2,0}^r(x_1(x_2x_4^2x_5^2 - x_2x_4^2y_5^2 - \\
& 4x_2x_4x_5y_4y_5 - x_2x_5^2y_4^2 + x_2y_4^2y_5^2 + 2x_4^2x_5y_2y_5 + 2x_4x_5^2y_2y_4 - 2x_4y_2y_4y_5^2 - \\
& 2x_5y_2y_4^2y_5) + y_1(-2x_2x_4^2x_5y_5 - 2x_2x_4x_5^2y_4 + 2x_2x_4y_4y_5^2 + 2x_2x_5y_4^2y_5 + x_4^2x_5^2y_2 - \\
& x_4^2y_2y_5^2 - 4x_4x_5y_2y_4y_5 - x_5^2y_2y_4^2 + y_2y_4^2y_5^2)) + a_{1,0,-1,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2) +
\end{aligned}$$

$$\begin{aligned}
& y_5^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,2,0,0,0,0}^r(x_3^2 + \\
& y_3^2)^2(x_1x_2 + y_1y_2) + a_{1,0,-1,0,2,0,-2,0,0,0}^r(x_1(x_2x_3^2x_4^2 - x_2x_3^2y_4^2 + 4x_2x_3x_4y_3y_4 - \\
& x_2x_4^2y_3^2 + x_2y_3^2y_4^2 - 2x_3^2x_4y_2y_4 + 2x_3x_4^2y_2y_3 - 2x_3y_2y_3y_4^2 + 2x_4y_2y_3^2y_4) + \\
& y_1(2x_2x_3^2x_4y_4 - 2x_2x_3x_4^2y_3 + 2x_2x_3y_3y_4^2 - 2x_2x_4y_3^2y_4 + x_3^2x_4^2y_2 - x_3^2y_2y_4^2 + \\
& 4x_3x_4y_2y_3y_4 - x_4^2y_2y_3^2 + y_2y_3^2y_4^2)) + a_{1,0,-1,0,2,0,0,0,2,0}^r(x_1(x_2x_3^2x_5^2 - x_2x_3^2y_5^2 - \\
& 4x_2x_3x_5y_3y_5 - x_2x_5^2y_3^2 + x_2y_3^2y_5^2 + 2x_3^2x_5y_2y_5 + 2x_3x_5^2y_2y_3 - 2x_3y_2y_3y_5^2 - \\
& 2x_5y_2y_3^2y_5) + y_1(-2x_2x_3^2x_5y_5 - 2x_2x_3x_5^2y_3 + 2x_2x_3y_3y_5^2 + 2x_2x_5y_3^2y_5 + x_3^2x_5^2y_2 - \\
& x_3^2y_2y_5^2 - 4x_3x_5y_2y_3y_5 - x_5^2y_2y_3^2 + y_2y_3^2y_5^2)) + a_{1,0,-1,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + \\
& y_5^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,1,0,1,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_3^2 + y_3^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1x_2 + y_1y_2) + \\
& a_{1,0,-2,0,-1,0,-1,0,-1,0}^r(x_1(x_2^2x_3x_4x_5 - x_2^2x_3y_4y_5 - x_2^2x_4y_3y_5 - x_2^2x_5y_3y_4 - 2x_2x_3x_4y_2y_5 - \\
& 2x_2x_3x_5y_2y_4 - 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 + x_3y_2^2y_4y_5 + x_4y_2^2y_3y_5 + \\
& x_5y_2^2y_3y_4) + y_1(x_2^2x_3x_4y_5 + x_2^2x_3x_5y_4 + x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 + 2x_2x_3x_4x_5y_2 - \\
& 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 - 2x_2x_5y_2y_3y_4 - x_3x_4y_2^2y_5 - x_3x_5y_2^2y_4 - x_4x_5y_2^2y_3 + \\
& y_2^2y_3y_4y_5)) + a_{1,0,-2,0,-1,0,1,0,1,0}^r(x_1(x_2^2x_3x_4x_5 - x_2^2x_3y_4y_5 + x_2^2x_4y_3y_5 + x_2^2x_5y_3y_4 + \\
& 2x_2x_3x_4y_2y_5 + 2x_2x_3x_5y_2y_4 - 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 + x_3y_2^2y_4y_5 - \\
& x_4y_2^2y_3y_5 - x_5y_2^2y_3y_4) + y_1(-x_2^2x_3x_4y_5 - x_2^2x_3x_5y_4 + x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 + \\
& 2x_2x_3x_4x_5y_2 - 2x_2x_3y_2y_4y_5 + 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 + x_3x_4y_2^2y_5 + x_3x_5y_2^2y_4 - \\
& x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,-2,0,1,0,-1,0,1,0}^r(x_1(x_2^2x_3x_4x_5 + x_2^2x_3y_4y_5 - x_2^2x_4y_3y_5 + \\
& x_2^2x_5y_3y_4 + 2x_2x_3x_4y_2y_5 - 2x_2x_3x_5y_2y_4 + 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 - \\
& x_3y_2^2y_4y_5 + x_4y_2^2y_3y_5 - x_5y_2^2y_3y_4) + y_1(-x_2^2x_3x_4y_5 + x_2^2x_3x_5y_4 - x_2^2x_4x_5y_3 - \\
& x_2^2y_3y_4y_5 + 2x_2x_3x_4x_5y_2 + 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 + x_3x_4y_2^2y_5 - \\
& x_3x_5y_2^2y_4 + x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,-3,0,-2,0,0,0,0,0}^r(x_1(x_2^3x_3^2 - x_2^2y_3^2 - \\
& 6x_2^2x_3y_2y_3 - 3x_2x_3^2y_2^2 + 3x_2y_2^2y_3^2 + 2x_3y_2^2y_3) + y_1(2x_2^3x_3y_3 + 3x_2^2x_3^2y_2 - \\
& 3x_2^2y_2y_3^2 - 6x_2x_3y_2^2y_3 - x_3^2y_3^2 + y_2^2y_3^2)) + a_{1,0,-3,0,0,0,-2,0,0,0}^r(x_1(x_2^3x_4^2 - x_2^2y_4^2 - \\
& 6x_2^2x_4y_2y_4 - 3x_2x_4^2y_2^2 + 3x_2y_2^2y_4^2 + 2x_4y_2^2y_4) + y_1(2x_2^3x_4y_4 + 3x_2^2x_4^2y_2 - \\
& 3x_2^2y_2y_4^2 - 6x_2x_4y_2^2y_4 - x_4^2y_2^2 + y_2^2y_4^2)) + a_{1,0,-3,0,0,0,0,0,2,0}^r(x_1(x_2^3x_5^2 - x_2^2y_5^2 + \\
& 6x_2^2x_5y_2y_5 - 3x_2x_5^2y_2^2 + 3x_2y_2^2y_5^2 - 2x_5y_2^2y_5) + y_1(-2x_2^3x_5y_5 + 3x_2^2x_5^2y_2 - \\
& 3x_2^2y_2y_5^2 + 6x_2x_5y_2^2y_5 - x_5^2y_2^2 + y_2^2y_5^2)) + a_{1,0,0,0,-1,0,-1,0,-3,0}^r(x_1(x_3x_4x_5^3 - \\
& 3x_3x_4x_5y_5^2 - 3x_3x_5^2y_4y_5 + x_3y_4y_5^3 - 3x_4x_5^2y_3y_5 + x_4y_3y_5^3 - x_5^3y_3y_4 + \\
& 3x_5y_3y_4y_5^2) + y_1(3x_3x_4x_5^2y_5 - x_3x_4y_5^3 + x_3x_5^3y_4 - 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - \\
& 3x_4x_5y_3y_5^2 - 3x_5^2y_3y_4y_5 + y_3y_4y_5^3)) + a_{1,0,0,0,-1,0,-1,0,3,0}^r(x_1(x_3x_4x_5^3 - 3x_3x_4x_5y_5^2 + \\
& 3x_3x_5^2y_4y_5 - x_3y_4y_5^3 + 3x_4x_5^2y_3y_5 - x_4y_3y_5^3 - x_5^3y_3y_4 + 3x_5y_3y_4y_5^2) + y_1(- \\
& 3x_3x_4x_5^2y_5 + x_3x_4y_5^3 + x_3x_5^3y_4 - 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - 3x_4x_5y_3y_5^2 + \\
& 3x_5^2y_3y_4y_5 - y_3y_4y_5^3)) + a_{1,0,0,0,-1,0,-3,0,1,0}^r(x_1(x_3x_4^3x_5 + 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 - \\
& x_3y_4^3y_5 + x_4^3y_3y_5 - 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 + x_5y_3y_4^3) + y_1(-x_3x_4^3y_5 + \\
& 3x_3x_4^2x_5y_4 + 3x_3x_4y_4^2y_5 - x_3x_5y_4^3 + x_4^3x_5y_3 + 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 - \\
& y_3y_4^3y_5)) + a_{1,0,0,0,-1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - \\
& x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,-1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + \\
& x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,-1,0,3,0,1,0}^r(x_1(x_3x_4^3x_5 - \\
& 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 + x_3y_4^3y_5 + x_4^3y_3y_5 + 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 - \\
& x_5y_3y_4^3) + y_1(-x_3x_4^3y_5 - 3x_3x_4^2x_5y_4 + 3x_3x_4y_4^2y_5 + x_3x_5y_4^3 + x_4^3x_5y_3 -
\end{aligned}$$

$$\begin{aligned}
& 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 + y_3y_4^3y_5)) + a_{1,0,0,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - \\
& x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,-3,0,-1,0,1,0}^r(x_1(x_3^3x_4x_5 + \\
& x_3^3y_4y_5 + 3x_3^2x_4y_3y_5 - 3x_3^2x_5y_3y_4 - 3x_3x_4x_5y_3^2 - 3x_3y_3^2y_4y_5 - x_4y_3^3y_5 + \\
& x_5y_3^3y_4) + y_1(-x_3^3x_4y_5 + x_3^3x_5y_4 + 3x_3^2x_4x_5y_3 + 3x_3^2y_3y_4y_5 + 3x_3x_4y_3^2y_5 - \\
& 3x_3x_5y_3^2y_4 - x_4x_5y_3^3 - y_3^3y_4y_5)) + a_{1,0,0,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + \\
& x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,-1,1,-1,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,0,0,0,1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(-x_3x_4y_5 - x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + \\
& x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,1,1,0,1,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,0,0,0,3,0,-1,0,1,0}^r(x_1(x_3^3x_4x_5 + x_3^3y_4y_5 - 3x_3^2x_4y_3y_5 + 3x_3^2x_5y_3y_4 - 3x_3x_4x_5y_3^2 - \\
& 3x_3y_3^2y_4y_5 + x_4y_3^3y_5 - x_5y_3^3y_4) + y_1(-x_3^3x_4y_5 + x_3^3x_5y_4 - 3x_3^2x_4x_5y_3 - \\
& 3x_3^2y_3y_4y_5 + 3x_3x_4y_3^2y_5 - 3x_3x_5y_3^2y_4 + x_4x_5y_3^3 + y_3^3y_4y_5)) + a_{1,0,0,1,-1,0,1,0,-1,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,0,0,1,1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,1,0,-2,0,-2,0,0,0}^r(x_1(x_2x_3^2x_4^2 - x_2x_3^2y_4^2 - \\
& 4x_2x_3x_4y_3y_4 - x_2x_4^2y_3^2 + x_2y_3^2y_4^2 + 2x_3^2x_4y_2y_4 + 2x_3x_4^2y_2y_3 - 2x_3y_2y_3y_4^2 - \\
& 2x_4y_2y_3^2y_4) + y_1(2x_2x_3^2x_4y_4 + 2x_2x_3x_4^2y_3 - 2x_2x_3y_3y_4^2 - 2x_2x_4y_3^2y_4 - x_3^2x_4^2y_2 + \\
& x_3^2y_2y_4^2 + 4x_3x_4y_2y_3y_4 + x_4^2y_2y_3^2 - y_2y_3^2y_4^2)) + a_{1,0,1,0,-2,0,0,0,2,0}^r(x_1(x_2x_3^2x_5^2 - \\
& x_2x_3^2y_5^2 + 4x_2x_3x_5y_3y_5 - x_2x_5^2y_3^2 + x_2y_3^2y_5^2 - 2x_3^2x_5y_2y_5 + 2x_3x_5^2y_2y_3 - \\
& 2x_3y_2y_3y_5^2 + 2x_5y_2y_3^2y_5) + y_1(-2x_2x_3^2x_5y_5 + 2x_2x_3x_5^2y_3 - 2x_2x_3y_3y_5^2 + \\
& 2x_2x_5y_3^2y_5 - x_3^2x_5^2y_2 + x_3^2y_2y_5^2 - 4x_3x_5y_2y_3y_5 + x_5^2y_2y_3^2 - y_2y_3^2y_5^2)) + \\
& a_{1,0,1,0,-4,0,0,0,0,0}^r(x_1(x_2x_3^4 - 6x_2x_3^2y_3^2 + x_2y_3^4 + 4x_3^3y_2y_3 - 4x_3y_2y_3^3) + y_1(4x_2x_3^3y_3 - \\
& 4x_2x_3y_3^3 - x_3^4y_2 + 6x_3^2y_2y_3^2 - y_2y_3^4)) + a_{1,0,1,0,0,0,0,-2,0,2,0}^r(x_1(x_2x_4^2x_5^2 - x_2x_4^2y_5^2 + \\
& 4x_2x_4x_5y_4y_5 - x_2x_5^2y_4^2 + x_2y_4^2y_5^2 - 2x_4^2x_5y_2y_5 + 2x_4x_5^2y_2y_4 - 2x_4y_2y_4y_5^2 + \\
& 2x_5y_2y_4^2y_5) + y_1(-2x_2x_4^2x_5y_5 + 2x_2x_4x_5^2y_4 - 2x_2x_4y_4y_5^2 + 2x_2x_5y_4^2y_5 - x_4^2x_5^2y_2 + \\
& x_4^2y_2y_5^2 - 4x_4x_5y_2y_4y_5 + x_5^2y_2y_4^2 - y_2y_4^2y_5^2)) + a_{1,0,1,0,0,0,-4,0,0,0}^r(x_1(x_2x_4^4 - \\
& 6x_2x_4^2y_4^2 + x_2y_4^4 + 4x_4^3y_2y_4 - 4x_4y_2y_4^3) + y_1(4x_2x_4^3y_4 - 4x_2x_4y_4^3 - x_4^4y_2 + \\
& 6x_4^2y_2y_4^2 - y_2y_4^4)) + a_{1,0,1,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - \\
& x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,0,0,4,0}^r(x_1(x_2x_5^4 - 6x_2x_5^2y_5^2 + x_2y_5^4 - 4x_5^3y_2y_5 + 4x_5y_2y_5^3) + \\
& y_1(-4x_2x_5^3y_5 + 4x_2x_5y_5^3 - x_5^4y_2 + 6x_5^2y_2y_5^2 - y_2y_5^4)) + a_{1,0,1,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,0,0,2,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,0,1,0,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,1,2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,2,0,0,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3$$

$$\begin{aligned}
& y_2^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,1,2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + \\
& a_{1,0,2,0,-1,0,-1,0,1,0}^r(x_1(x_2^2x_3x_4x_5 + x_2^2x_3y_4y_5 + x_2^2x_4y_3y_5 - x_2^2x_5y_3y_4 - 2x_2x_3x_4y_2y_5 + \\
& 2x_2x_3x_5y_2y_4 + 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 - x_3y_2^2y_4y_5 - x_4y_2^2y_3y_5 + \\
& x_5y_2^2y_3y_4) + y_1(-x_2^2x_3x_4y_5 + x_2^2x_3x_5y_4 + x_2^2x_4x_5y_3 + x_2^2y_3y_4y_5 - 2x_2x_3x_4x_5y_2 - \\
& 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 + x_3x_4y_2^2y_5 - x_3x_5y_2^2y_4 - x_4x_5y_2^2y_3 - \\
& y_2^2y_3y_4y_5)) + a_{1,0,2,0,1,0,1,0,-1,0}^r(x_1(x_2^2x_3x_4x_5 + x_2^2x_3y_4y_5 + x_2^2x_4y_3y_5 - x_2^2x_5y_3y_4 + \\
& 2x_2x_3x_4x_5y_2 - 2x_2x_3x_5y_2y_4 - 2x_2x_4x_5y_2y_3 - 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 - x_3y_2^2y_4y_5 - \\
& x_4y_2^2y_3y_5 + x_5y_2^2y_3y_4) + y_1(x_2^2x_3x_4y_5 - x_2^2x_3x_5y_4 - x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 - \\
& 2x_2x_3x_4x_5y_2 - 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 - x_3x_4y_2^2y_5 + x_3x_5y_2^2y_4 + \\
& x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,3,0,-2,0,0,0,0,0}^r(x_1(x_2^3x_3^2 - x_2^3y_3^2 + 6x_2^2x_3y_2y_3 - \\
& 3x_2x_3^2y_2^2 + 3x_2y_2^2y_3^2 - 2x_3y_3^2y_3) + y_1(2x_2^3x_3y_3 - 3x_2^2x_3^2y_2 + 3x_2^2y_2y_3^2 - \\
& 6x_2x_3y_2^2y_3 + x_3^2y_2^3 - y_2^3y_3^2)) + a_{1,0,3,0,0,0,-2,0,0,0}^r(x_1(x_2^3x_4^2 - x_2^3y_4^2 + 6x_2^2x_4y_2y_4 - \\
& 3x_2x_4^2y_2^2 + 3x_2y_2^2y_4^2 - 2x_4y_2^3y_4) + y_1(2x_2^3x_4y_4 - 3x_2^2x_4^2y_2 + 3x_2^2y_2y_4^2 - \\
& 6x_2x_4y_2^2y_4 + x_4^2y_2^3 - y_2^3y_4^2)) + a_{1,0,3,0,0,0,0,2,0}^r(x_1(x_2^3x_5^2 - x_2^3y_5^2 - 6x_2^2x_5y_2y_5 - \\
& 3x_2x_5^2y_2^2 + 3x_2y_2^2y_5^2 + 2x_5y_3^2y_5) + y_1(-2x_2^3x_5y_5 - 3x_2^2x_5^2y_2 + 3x_2^2y_2y_5^2 + \\
& 6x_2x_5y_2^2y_5 + x_5^2y_2^3 - y_2^3y_5^2)) + a_{1,0,5,0,0,0,0,0,0}^r(x_1(x_2^5 - 10x_2^3y_2^2 + 5x_2y_2^4) + y_1(- \\
& 5x_2^4y_2 + 10x_2^2y_2^3 - y_2^5)) + a_{1,1,-1,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + \\
& a_{1,1,-1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,1,-1,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_1x_2 + \\
& y_1y_2) + a_{1,1,-1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_1x_2 + y_1y_2) + a_{1,1,0,0,-1,0,1,0,-1,0}^r(x_1^2 + \\
& y_1^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,1,0,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,1,0,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,1,1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_2x_5^2 - x_2y_5^2 + \\
& 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,1,1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2x_4^2 - x_2y_4^2 - \\
& 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,1,1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2x_3^2 - x_2y_3^2 - \\
& 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,2,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_1x_2 + y_1y_2) + \\
& a_{2,0,-1,0,-1,0,1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 - 2x_2x_3x_5y_1y_4 + 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + \\
& 2x_3x_4x_5y_1y_2 + 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 + \\
& x_1^2x_3y_4y_5 - x_1^2x_4y_3y_5 + x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 + x_4y_1^2y_3y_5 - \\
& x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 - x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 + x_3x_4y_1^2y_5 - \\
& x_3x_5y_1^2y_4 + x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-1,0,1,0,-1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 + 2x_2x_3x_5y_1y_4 - \\
& 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 + 2x_4y_1y_2y_3y_5 + \\
& 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 - x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 + x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 + \\
& x_3y_1^2y_4y_5 - x_4y_1^2y_3y_5 - x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 - x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 - \\
& x_1^2y_3y_4y_5 + x_3x_4y_1^2y_5 + x_3x_5y_1^2y_4 - x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-1,0,1,0,1,0,1,0}^r(x_1(- \\
& 2x_2x_3x_4y_1y_5 - 2x_2x_3x_5y_1y_4 - 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + 2x_3x_4x_5y_1y_2 - \\
& 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 - 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 - x_1^2x_3y_4y_5 - \\
& x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 + x_3y_1^2y_4y_5 + x_4y_1^2y_3y_5 + x_5y_1^2y_3y_4) + \\
& y_2(x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 - x_3x_4y_1^2y_5 - x_3x_5y_1^2y_4 - \\
& x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-
\end{aligned}$$

$$\begin{aligned}
& x_2 + y_2)) + a_{2,0,-2,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + \\
& a_{2,0,-2,0,0,1,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,0,-2,1,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,0,0,0,-2,0,-2,0,0}^r(x_1(x_3x_4 - x_3y_4 - x_4y_3 - \\
& y_3y_4) + y_1(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4))(x_1(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) + y_1(-x_3x_4 + x_3y_4 + x_4y_3 + \\
& y_3y_4)) + a_{2,0,0,0,-2,0,0,0,2,0}^r(x_1(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5) + y_1(-x_3x_5 - x_3y_5 + x_5y_3 - y_3y_5))(x_1(x_3x_5 + \\
& x_3y_5 - x_5y_3 + y_3y_5) + y_1(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)) + a_{2,0,0,0,-4,0,0,0,0}^r(x_1(x_3^2 - 2x_3y_3 - y_3^2) + \\
& y_1(x_3^2 + 2x_3y_3 - y_3^2))(x_1(x_3^2 + 2x_3y_3 - y_3^2) + y_1(-x_3^2 + 2x_3y_3 + y_3^2)) + a_{2,0,0,0,0,-2,0,2,0}^r(x_1(x_4x_5 - \\
& x_4y_5 + x_5y_4 + y_4y_5) + y_1(-x_4x_5 - x_4y_5 + x_5y_4 - y_4y_5))(x_1(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + y_1(x_4x_5 - \\
& x_4y_5 + x_5y_4 + y_4y_5)) + a_{2,0,0,0,0,-4,0,0,0}^r(x_1(x_4^2 - 2x_4y_4 - y_4^2) + y_1(x_4^2 + 2x_4y_4 - y_4^2))(x_1(x_4^2 + \\
& 2x_4y_4 - y_4^2) + y_1(-x_4^2 + 2x_4y_4 + y_4^2)) + a_{2,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + \\
& y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,0,0,0,0,4,0}^r(x_1(x_5^2 - 2x_5y_5 - y_5^2) + y_1(-x_5^2 - 2x_5y_5 + y_5^2))(x_1(x_5^2 + 2x_5y_5 - \\
& y_5^2) + y_1(x_5^2 - 2x_5y_5 - y_5^2)) + a_{2,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(- \\
& x_5 + y_5)) + a_{2,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + \\
& a_{2,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_4 - y_4) + y_1(- \\
& x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + \\
& y_1(x_3 - y_3)) + a_{2,0,0,0,2,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + \\
& a_{2,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + a_{2,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_4 - y_4) + y_1(- \\
& x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + \\
& y_1(x_3 - y_3)) + a_{2,0,1,0,-1,0,-1,0,1,0}^r(x_1(-2x_2x_3x_4y_1y_5 + 2x_2x_3x_5y_1y_4 + 2x_2x_4x_5y_1y_3 + \\
& 2x_2y_1y_3y_4y_5 - 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + \\
& x_2(x_1^2x_3x_4x_5 + x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 - \\
& x_4y_1^2y_3y_5 + x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 + x_1^2y_3y_4y_5 + \\
& x_3x_4y_1^2y_5 - x_3x_5y_1^2y_4 - x_4x_5y_1^2y_3 - y_1^2y_3y_4y_5)) + a_{2,0,1,0,1,0,1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 - \\
& 2x_2x_3x_5y_1y_4 - 2x_2x_4x_5y_1y_3 - 2x_2y_1y_3y_4y_5 - 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 - \\
& 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 + x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - \\
& x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 - x_4y_1^2y_3y_5 + x_5y_1^2y_3y_4) + y_2(x_1^2x_3x_4y_5 - x_1^2x_3x_5y_4 - \\
& x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 - x_3x_4y_1^2y_5 + x_3x_5y_1^2y_4 + x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + \\
& a_{2,0,2,0,-2,0,0,0,0,0}^r(x_1(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3) + y_1(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3))(x_1(x_2x_3 + x_2y_3 - \\
& x_3y_2 + y_2y_3) + y_1(-x_2x_3 + x_2y_3 - x_3y_2 - y_2y_3)) + a_{2,0,2,0,0,0,-2,0,0,0}^r(x_1(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4) + \\
& y_1(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4))(x_1(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + y_1(-x_2x_4 + x_2y_4 - x_4y_2 - y_2y_4)) + \\
& a_{2,0,2,0,0,0,0,0,2,0}^r(x_1(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5) + y_1(-x_2x_5 - x_2y_5 - x_5y_2 + y_2y_5))(x_1(x_2x_5 + x_2y_5 + \\
& x_5y_2 - y_2y_5) + y_1(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)) + a_{2,0,4,0,0,0,0,0,0,0}^r(x_1(x_2^2 - 2x_2y_2 - y_2^2) + y_1(-x_2^2 - \\
& 2x_2y_2 + y_2^2))(x_1(x_2^2 + 2x_2y_2 - y_2^2) + y_1(x_2^2 - 2x_2y_2 - y_2^2)) + a_{2,1,-2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2 - \\
& y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_5 - y_5) + y_1(x_5 + \\
& y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + \\
& y_1(x_4 - y_4)) + a_{2,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + \\
& a_{3,0,-1,0,0,0,0,0,-2,0}^r(x_1(-3x_2x_5^2y_1^2 + 3x_2y_1^2y_5^2 + 6x_5y_1^2y_2y_5) + x_2(x_1^3x_5^2 - x_1^3y_5^2 - \\
& 2x_5y_1^3y_5) + y_1(6x_1^2x_2x_5y_5 + 3x_1^2x_5^2y_2 - 3x_1^2y_2y_5^2) + y_2(-2x_1^3x_5y_5 - x_5^2y_1^3 + \\
& y_1^3y_5^2)) + a_{3,0,-1,0,0,0,2,0,0,0}^r(x_1(-3x_2x_4^2y_1^2 + 3x_2y_1^2y_4^2 - 6x_4y_1^2y_2y_4) + x_2(x_1^3x_4^2 - \\
& x_1^3y_4^2 + 2x_4y_1^3y_4) + y_1(-6x_1^2x_2x_4y_4 + 3x_1^2x_4^2y_2 - 3x_1^2y_2y_4^2) + y_2(2x_1^3x_4y_4 - \\
& x_4^2y_1^3 + y_1^3y_4^2)) + a_{3,0,-1,0,2,0,0,0,0,0}^r(x_1(-3x_2x_3^2y_1^2 + 3x_2y_1^2y_3^2 - 6x_3y_1^2y_2y_3) +
\end{aligned}$$



$$\begin{aligned}
& x_2(x_1^3x_3^2 - x_1^3y_3^2 + 2x_3y_1^3y_3) + y_1(-6x_1^2x_2x_3y_3 + 3x_1^2x_3^2y_2 - 3x_1^2y_2y_3^2) + \\
& y_2(2x_1^3x_3y_3 - x_3^2y_1^3 + y_3^3y_3^2) + a_{3,0,-3,0,0,0,0,0,0}^r(x_1x_2 + y_1y_2)(x_1^2x_2^2 - 3x_1^2y_2^2 + \\
& 8x_1x_2y_1y_2 - 3x_2^2y_1^2 + y_1^2y_2^2) + a_{3,0,0,0,-1,0,-1,0,1,0}^r(x_1(-3x_3x_4x_5y_1^2 - 3x_3y_1^2y_4y_5 - \\
& 3x_4y_1^2y_3y_5 + 3x_5y_1^2y_3y_4) + x_3(x_1^3x_4x_5 + x_1^3y_4y_5 + x_4y_1^3y_5 - x_5y_1^3y_4) + y_1(- \\
& 3x_1^2x_3x_4y_5 + 3x_1^2x_3x_5y_4 + 3x_1^2x_4x_5y_3 + 3x_1^2y_3y_4y_5) + y_3(x_1^3x_4y_5 - x_1^3x_5y_4 - \\
& x_4x_5y_1^3 - y_1^3y_4y_5)) + a_{3,0,0,0,1,0,1,0,-1,0}^r(x_1(-3x_3x_4x_5y_1^2 - 3x_3y_1^2y_4y_5 - 3x_4y_1^2y_3y_5 + \\
& 3x_5y_1^2y_3y_4) + x_3(x_1^3x_4x_5 + x_1^3y_4y_5 - x_4y_1^3y_5 + x_5y_1^3y_4) + y_1(3x_1^2x_3x_4y_5 - \\
& 3x_1^2x_3x_5y_4 - 3x_1^2x_4x_5y_3 - 3x_1^2y_3y_4y_5) + y_3(x_1^3x_4y_5 - x_1^3x_5y_4 + x_4x_5y_1^3 + \\
& y_1^3y_4y_5)) + a_{3,0,1,0,-2,0,0,0,0,0}^r(x_1(-3x_2x_3^2y_1^2 + 3x_2y_1^2y_3^2 - 6x_3y_1^2y_2y_3) + x_2(x_1^3x_3^2 - \\
& x_1^3y_3^2 - 2x_3y_1^3y_3) + y_1(6x_1^2x_2x_3y_3 - 3x_1^2x_3^2y_2 + 3x_1^2y_2y_3^2) + y_2(2x_1^3x_3y_3 + \\
& x_2^3y_1^3 - y_1^3y_3^2) + a_{3,0,1,0,0,0,-2,0,0,0}^r(x_1(-3x_2x_4^2y_1^2 + 3x_2y_1^2y_4^2 - 6x_4y_1^2y_2y_4) + \\
& x_2(x_1^3x_4^2 - x_1^3y_4^2 - 2x_4y_1^3y_4) + y_1(6x_1^2x_2x_4y_4 - 3x_1^2x_4^2y_2 + 3x_1^2y_2y_4^2) + \\
& y_2(2x_1^3x_4y_4 + x_4^2y_1^3 - y_1^3y_4^2) + a_{3,0,1,0,0,0,0,0,2,0}^r(x_1(-3x_2x_5^2y_1^2 + 3x_2y_1^2y_5^2 + \\
& 6x_5y_1^2y_2y_5) + x_2(x_1^3x_5^2 - x_1^3y_5^2 + 2x_5y_1^3y_5) + y_1(-6x_1^2x_2x_5y_5 - 3x_1^2x_5^2y_2 + \\
& 3x_1^2y_2y_5^2) + y_2(-2x_1^3x_5y_5 + x_5^2y_1^3 - y_1^3y_5^2) + a_{3,0,3,0,0,0,0,0,0}^r(x_1x_2 - y_1y_2)(x_1^2x_2^2 - \\
& 3x_1^2y_2^2 - 8x_1x_2y_1y_2 - 3x_2^2y_1^2 + y_1^2y_2^2) + a_{4,0,0,0,-2,0,0,0,0,0}^r(x_1(-2x_3y_1 + 2y_1y_3) + x_3(x_1^2 - \\
& y_1^2) + y_3(x_1^2 - y_1^2))(x_1(2x_3y_1 + 2y_1y_3) + x_3(x_1^2 - y_1^2) + y_3(-x_1^2 + y_1^2)) + a_{4,0,0,0,0,0,-2,0,0,0}^r(x_1(- \\
& 2x_4y_1 + 2y_1y_4) + x_4(x_1^2 - y_1^2) + y_4(x_1^2 - y_1^2))(x_1(2x_4y_1 + 2y_1y_4) + x_4(x_1^2 - y_1^2) + y_4(-x_1^2 + \\
& y_1^2)) + a_{4,0,0,0,0,0,0,0,2,0}^r(x_1(-2x_5y_1 - 2y_1y_5) + x_5(x_1^2 - y_1^2) + y_5(-x_1^2 + y_1^2))(x_1(2x_5y_1 - 2y_1y_5) + \\
& x_5(x_1^2 - y_1^2) + y_5(x_1^2 - y_1^2)) + a_{4,0,2,0,0,0,0,0,0,0}^r(x_1(-2x_2y_1 - 2y_1y_2) + x_2(x_1^2 - y_1^2) + y_2(-x_1^2 + \\
& y_1^2))(x_1(2x_2y_1 - 2y_1y_2) + x_2(x_1^2 - y_1^2) + y_2(x_1^2 - y_1^2)) + a_{5,0,1,0,0,0,0,0,0,0}^r(-5x_1^4y_1y_2 + \\
& 5x_1x_2y_1^4 + x_2(x_1^5 - 10x_1^3y_1^2) + y_2(10x_1^2y_1^3 - y_1^5)) + a_{6,0,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 - \\
& 4x_1y_1 + y_1^2)(x_1^2 + 4x_1y_1 + y_1^2)
\end{aligned}$$

$$\begin{aligned}
H_{--}^{(6)} = & a_{0,0,0,0,0,0,0,0,0,3}^r(x_5^2 + y_5^2)^3 + a_{0,0,0,0,0,0,0,0,6,0}^r(x_5 - y_5)(x_5 + y_5)(x_5^2 - 4x_5y_5 + y_5^2)(x_5^2 + 4x_5y_5 + y_5^2) + \\
& a_{0,0,0,0,0,0,0,1,0,2}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,0,0,2,0,1}^r(x_4^2 + y_4^2)^2(x_5^2 + y_5^2) + \\
& a_{0,0,0,0,0,0,0,3,0,0}^r(x_4^2 + y_4^2)^3 + a_{0,0,0,0,0,0,2,0,-4,0}^r(x_4(x_5^2 - 2x_5y_5 - y_5^2) + y_4(x_5^2 + 2x_5y_5 - \\
& y_5^2))(x_4(x_5^2 + 2x_5y_5 - y_5^2) + y_4(-x_5^2 + 2x_5y_5 + y_5^2)) + a_{0,0,0,0,0,0,2,0,2,1}^r(x_5^2 + y_5^2)(x_4(x_5 - y_5) + y_4(- \\
& x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,0,2,1,2,0}^r(x_4^2 + y_4^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + \\
& y_4(x_5 - y_5)) + a_{0,0,0,0,0,0,4,0,-2,0}^r(x_4(-2x_5y_4 + 2y_4y_5) + x_5(x_4^2 - y_4^2) + y_5(x_4^2 - y_4^2))(x_4(2x_5y_4 + \\
& 2y_4y_5) + x_5(x_4^2 - y_4^2) + y_5(-x_4^2 + y_4^2)) + a_{0,0,0,0,0,0,6,0,0,0}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 - 4x_4y_4 + y_4^2)(x_4^2 + \\
& 4x_4y_4 + y_4^2) + a_{0,0,0,0,0,1,0,0,0,2}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,1,0,1,0,1}^r(x_3^2 + y_3^2)(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,0,0,1,0,2,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)^2 + a_{0,0,0,0,0,1,2,0,2,0}^r(x_3^2 + y_3^2)(x_4(x_5 - y_5) + \\
& y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,2,0,0,0,1}^r(x_3^2 + y_3^2)^2(x_5^2 + y_5^2) + a_{0,0,0,0,2,0,1,0,0}^r(x_3^2 + \\
& y_3^2)^2(x_4^2 + y_4^2) + a_{0,0,0,0,0,3,0,0,0,0}^r(x_3^2 + y_3^2)^3 + a_{0,0,0,0,2,0,-2,0,0,1}^r(x_5^2 + y_5^2)(x_3(x_4 - y_4) + y_3(x_4 + \\
& y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,0,-2,1,0,0}^r(x_4^2 + y_4^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(- \\
& x_4 + y_4)) + a_{0,0,0,0,2,0,0,0,-4,0}^r(x_3(x_5^2 - 2x_5y_5 - y_5^2) + y_3(x_5^2 + 2x_5y_5 - y_5^2))(x_3(x_5^2 + 2x_5y_5 - y_5^2) + \\
& y_3(-x_5^2 + 2x_5y_5 + y_5^2)) + a_{0,0,0,0,2,0,0,0,2,1}^r(x_5^2 + y_5^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - \\
& y_5)) + a_{0,0,0,0,2,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + \\
& a_{0,0,0,0,2,0,2,0,-2,0}^r(x_3(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5) + y_3(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5))(x_3(x_4x_5 + x_4y_5 - \\
& x_5y_4 + y_4y_5) + y_3(-x_4x_5 + x_4y_5 - x_5y_4 - y_4y_5)) + a_{0,0,0,0,2,0,4,0,0,0}^r(x_3(x_4^2 - 2x_4y_4 - y_4^2) + y_3(-x_4^2 - \\
& 2x_4y_4 + y_4^2))(x_3(x_4^2 + 2x_4y_4 - y_4^2) + y_3(x_4^2 - 2x_4y_4 - y_4^2)) + a_{0,0,0,0,2,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_3(x_4 -
\end{aligned}$$



$$\begin{aligned}
& x_5 y_3 y_4) + y_2(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{0,0,1,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2(x_3 x_4 x_5 - \\
& x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + \\
& a_{0,0,2,0,-2,0,-2,0,0,0}^r(x_2(x_3 x_4 - x_3 y_4 - x_4 y_3 - y_3 y_4) + y_2(x_3 x_4 + x_3 y_4 + x_4 y_3 - y_3 y_4))(x_2(x_3 x_4 + x_3 y_4 + \\
& x_4 y_3 - y_3 y_4) + y_2(-x_3 x_4 + x_3 y_4 + x_4 y_3 + y_3 y_4)) + a_{0,0,2,0,-2,0,0,0,2,0}^r(x_2(x_3 x_5 - x_3 y_5 + x_5 y_3 + y_3 y_5) + y_2(- \\
& x_3 x_5 - x_3 y_5 + x_5 y_3 - y_3 y_5))(x_2(x_3 x_5 + x_3 y_5 - x_5 y_3 + y_3 y_5) + y_2(x_3 x_5 - x_3 y_5 + x_5 y_3 + y_3 y_5)) + \\
& a_{0,0,2,0,-4,0,0,0,0,0}^r(x_2(x_3^2 - 2x_3 y_3 - y_3^2) + y_2(x_3^2 + 2x_3 y_3 - y_3^2))(x_2(x_3^2 + 2x_3 y_3 - y_3^2) + y_2(-x_3^2 + \\
& 2x_3 y_3 + y_3^2)) + a_{0,0,2,0,0,0,-2,0,2,0}^r(x_2(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5) + y_2(-x_4 x_5 - x_4 y_5 + x_5 y_4 - \\
& y_4 y_5))(x_2(x_4 x_5 + x_4 y_5 - x_5 y_4 + y_4 y_5) + y_2(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5)) + a_{0,0,2,0,0,0,-4,0,0,0}^r(x_2(x_4^2 - \\
& 2x_4 y_4 - y_4^2) + y_2(x_4^2 + 2x_4 y_4 - y_4^2))(x_2(x_4^2 + 2x_4 y_4 - y_4^2) + y_2(-x_4^2 + 2x_4 y_4 + y_4^2)) + \\
& a_{0,0,2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,0,0,4,0}^r(x_2(x_5^2 - 2x_5 y_5 - y_5^2) + y_2(-x_5^2 - 2x_5 y_5 + y_5^2))(x_2(x_5^2 + 2x_5 y_5 - y_5^2) + y_2(x_5^2 - \\
& 2x_5 y_5 - y_5^2)) + a_{0,0,2,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,0,0,2,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2(x_5 - y_5) + \\
& y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,0,2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + \\
& y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + \\
& a_{0,0,2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,0,2,0,2,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,0,2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2(x_5 - y_5) + \\
& y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,0,2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + \\
& y_4) + y_2(x_4 - y_4)) + a_{0,0,2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + \\
& a_{0,0,3,0,-1,0,-1,0,1,0}^r(x_2(-3x_3 x_4 x_5 y_2^2 - 3x_3 y_2^2 y_4 y_5 - 3x_4 y_2^2 y_3 y_5 + 3x_5 y_2^2 y_3 y_4) + \\
& x_3(x_2^3 x_4 x_5 + x_2^3 y_4 y_5 + x_4 y_2^3 y_5 - x_5 y_2^3 y_4) + y_2(-3x_2^2 x_3 x_4 y_5 + 3x_2^2 x_3 x_5 y_4 + \\
& 3x_2^2 x_4 x_5 y_3 + 3x_2^2 y_3 y_4 y_5) + y_3(x_2^3 x_4 y_5 - x_2^3 x_5 y_4 - x_4 x_5 y_2^3 - y_2^3 y_4 y_5)) + \\
& a_{0,0,3,0,1,0,1,0,-1,0}^r(x_2(-3x_3 x_4 x_5 y_2^2 - 3x_3 y_2^2 y_4 y_5 - 3x_4 y_2^2 y_3 y_5 + 3x_5 y_2^2 y_3 y_4) + x_3(x_2^3 x_4 x_5 + \\
& x_2^3 y_4 y_5 - x_4 y_2^3 y_5 + x_5 y_2^3 y_4) + y_2(3x_2^2 x_3 x_4 y_5 - 3x_2^2 x_3 x_5 y_4 - 3x_2^2 x_4 x_5 y_3 - \\
& 3x_2^2 y_3 y_4 y_5) + y_3(x_2^3 x_4 y_5 - x_2^3 x_5 y_4 + x_4 x_5 y_2^3 + y_2^3 y_4 y_5)) + a_{0,0,4,0,-2,0,0,0,0,0}^r(x_2(-2x_3 y_2 + \\
& 2y_2 y_3) + x_3(x_2^2 - y_2^2) + y_3(x_2^2 - y_2^2))(x_2(2x_3 y_2 + 2y_2 y_3) + x_3(x_2^2 - y_2^2) + y_3(-x_2^2 + y_2^2)) + \\
& a_{0,0,4,0,0,0,-2,0,0,0}^r(x_2(-2x_4 y_2 + 2y_2 y_4) + x_4(x_2^2 - y_2^2) + y_4(x_2^2 - y_2^2))(x_2(2x_4 y_2 + 2y_2 y_4) + x_4(x_2^2 - \\
& y_2^2) + y_4(-x_2^2 + y_2^2)) + a_{0,0,4,0,0,0,0,0,2,0}^r(x_2(-2x_5 y_2 - 2y_2 y_5) + x_5(x_2^2 - y_2^2) + y_5(-x_2^2 + \\
& y_2^2))(x_2(2x_5 y_2 - 2y_2 y_5) + x_5(x_2^2 - y_2^2) + y_5(x_2^2 - y_2^2)) + a_{0,0,6,0,0,0,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 - \\
& 4x_2 y_2 + y_2^2)(x_2^2 + 4x_2 y_2 + y_2^2) + a_{0,1,0,0,0,0,0,0,0,2}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)^2 + a_{0,1,0,0,0,0,0,1,0,1}^r(x_1^2 + \\
& y_1^2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,0,0,2,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)^2 + a_{0,1,0,0,0,0,2,0,2,0}^r(x_1^2 + \\
& y_1^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,1,0,0,0,1,0,0,0,1}^r(x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,1,0,1,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + a_{0,1,0,0,0,2,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_3^2 + y_3^2)^2 + a_{0,1,0,0,2,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + \\
& a_{0,1,0,0,2,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,1,0,1,0,0,0,0,0,1}^r(x_1^2 + \\
& y_1^2)(x_2^2 + y_2^2)(x_5^2 + y_5^2) + a_{0,1,0,1,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& a_{0,1,0,1,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_3^2 + y_3^2) + a_{0,1,0,2,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)^2 + \\
& a_{0,1,1,0,-1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4) + y_2(x_3 x_4 y_5 - x_3 x_5 y_4 + \\
& x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{0,1,1,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_2(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + \\
& y_2(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{0,1,1,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2(x_3 x_4 x_5 - x_3 y_4 y_5 - \\
& x_4 y_3 y_5 - x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{0,1,2,0,0,0,0,0,-2,0}^r(x_1^2 +
\end{aligned}$$

$$\begin{aligned}
& y_1^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,1,2,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,1,2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,2,0,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)^2(x_5^2 + y_5^2) + a_{0,2,0,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)^2(x_4^2 + y_4^2) + \\
& a_{0,2,0,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_3^2 + y_3^2) + a_{0,2,0,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_2^2 + y_2^2) + \\
& a_{0,3,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^3 + a_{1,0,-1,0,-2,0,0,0,-2,0}^r(x_1(x_2x_3^2x_5^2 - x_2x_3^2y_5^2 - 4x_2x_3x_5y_3y_5 - x_2x_5^2y_3^2 + x_2y_3^2y_5^2 - 2x_3^2x_5y_2y_5 - 2x_3x_5^2y_2y_3 + 2x_3y_2y_3y_5^2 + 2x_5y_2y_3^2y_5) + \\
& y_1(2x_2x_3^2x_5y_5 + 2x_2x_3x_5^2y_3 - 2x_2x_3y_3y_5^2 - 2x_2x_5y_3^2y_5 + x_3^2x_5^2y_2 - x_3^2y_2y_5^2 - 4x_3x_5y_2y_3y_5 - x_5^2y_2y_3^2 + y_2y_3^2y_5^2)) + a_{1,0,-1,0,-2,0,2,0,0,0}^r(x_1(x_2x_3^2x_4^2 - x_2x_3^2y_4^2 + 4x_2x_3x_4y_3y_4 - x_2x_4^2y_3^2 + x_2y_3^2y_4^2 + 2x_3^2x_4y_2y_4 - 2x_3x_4^2y_2y_3 + 2x_3y_2y_3y_4^2 - 2x_4y_2y_3^2y_4) + y_1(-2x_2x_3^2x_4y_4 + 2x_2x_3x_4^2y_3 - 2x_2x_3y_3y_4^2 + 2x_2x_4y_3^2y_4 + x_3^2x_4^2y_2 - x_3^2y_2y_4^2 + 4x_3x_4y_2y_3y_4 - x_4^2y_2y_3^2 + y_2y_3^2y_4^2)) + a_{1,0,-1,0,0,0,-2,0,-2,0}^r(x_1(x_2x_4^2x_5^2 - x_2x_4^2y_5^2 - 4x_2x_4x_5y_4y_5 - x_2x_5^2y_4^2 + x_2y_4^2y_5^2 - 2x_4^2x_5y_2y_5 - 2x_4x_5^2y_2y_4 + 2x_4y_2y_4y_5^2 + 2x_5y_2y_4^2y_5) + y_1(2x_2x_4^2x_5y_5 + 2x_2x_4x_5^2y_4 - 2x_2x_4y_4y_5^2 - 2x_2x_5y_4^2y_5 + x_4^2x_5^2y_2 - x_4^2y_2y_5^2 - 4x_4x_5y_2y_4y_5 - x_5^2y_2y_4^2 + y_2y_4^2y_5^2)) + \\
& a_{1,0,-1,0,0,0,0,0,2}^r(x_5^2 + y_5^2)^2(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + \\
& a_{1,0,-1,0,0,0,0,2,0,0}^r(x_4^2 + y_4^2)^2(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,0,2,0,2,0}^r(x_1(x_2x_4^2x_5^2 - x_2x_4^2y_5^2 - 4x_2x_4x_5y_4y_5 - x_2x_5^2y_4^2 + x_2y_4^2y_5^2 + 2x_4^2x_5y_2y_5 + 2x_4x_5^2y_2y_4 - 2x_4y_2y_4y_5^2 - 2x_5y_2y_4^2y_5) + y_1(-2x_2x_4^2x_5y_5 - 2x_2x_4x_5^2y_4 + 2x_2x_4y_4y_5^2 + 2x_2x_5y_4^2y_5 + x_4^2x_5^2y_2 - x_4^2y_2y_5^2 - 4x_4x_5y_2y_4y_5 - x_5^2y_2y_4^2 + y_2y_4^2y_5^2)) + a_{1,0,-1,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,2,0,0,0,0}^r(x_3^2 + y_3^2)^2(x_1x_2 + y_1y_2) + a_{1,0,-1,0,2,0,-2,0,0,0}^r(x_1(x_2x_3^2x_4^2 - x_2x_3^2y_4^2 + 4x_2x_3x_4y_3y_4 - x_2x_4^2y_3^2 + x_2y_3^2y_4^2 - 2x_3^2x_4y_2y_4 + 2x_3x_4^2y_2y_3 - 2x_3y_2y_3y_4^2 + 2x_4y_2y_3^2y_4) + y_1(2x_2x_3^2x_4y_4 - 2x_2x_3x_4^2y_3 + 2x_2x_3y_3y_4^2 - 2x_2x_4y_3^2y_4 + x_3^2x_4^2y_2 - x_3^2y_2y_4^2 + 4x_3x_4y_2y_3y_4 - x_4^2y_2y_3^2 + y_2y_3^2y_4^2)) + a_{1,0,-1,0,2,0,0,0,2,0}^r(x_1(x_2x_3^2x_5^2 - x_2x_3^2y_5^2 - 4x_2x_3x_5y_3y_5 - x_2x_5^2y_3^2 + x_2y_3^2y_5^2 + 2x_3^2x_5y_2y_5 + 2x_3x_5^2y_2y_3 - 2x_3y_2y_3y_5^2 - 2x_5y_2y_3^2y_5) + y_1(-2x_2x_3^2x_5y_5 - 2x_2x_3x_5^2y_3 + 2x_2x_3y_3y_5^2 + 2x_2x_5y_3^2y_5 + x_3^2x_5^2y_2 - x_3^2y_2y_5^2 - 4x_3x_5y_2y_3y_5 - x_5^2y_2y_3^2 + y_2y_3^2y_5^2)) + a_{1,0,-1,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1x_2 + y_1y_2) + \\
& a_{1,0,-2,0,-1,0,-1,0,-1,0}^r(x_1(x_2^2x_3x_4x_5 - x_2^2x_3y_4y_5 - x_2^2x_4y_3y_5 - x_2^2x_5y_3y_4 - 2x_2x_3x_4y_2y_5 - 2x_2x_3x_5y_2y_4 - 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 + x_3y_2^2y_4y_5 + x_4y_2^2y_3y_5 + x_5y_2^2y_3y_4) + y_1(x_2^2x_3x_4y_5 + x_2^2x_3x_5y_4 + x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 + 2x_2x_3x_4x_5y_2 - 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 - 2x_2x_5y_2y_3y_4 - x_3x_4y_2^2y_5 - x_3x_5y_2^2y_4 - x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,-2,0,-1,0,1,0,1,0}^r(x_1(x_2^2x_3x_4x_5 - x_2^2x_3y_4y_5 + x_2^2x_4y_3y_5 + x_2^2x_5y_3y_4 + 2x_2x_3x_4y_2y_5 + 2x_2x_3x_5y_2y_4 - 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 + x_3y_2^2y_4y_5 - x_4y_2^2y_3y_5 - x_5y_2^2y_3y_4) + y_1(-x_2^2x_3x_4y_5 - x_2^2x_3x_5y_4 + x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 + 2x_2x_3x_4x_5y_2 - 2x_2x_3y_2y_4y_5 + 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 + x_3x_4y_2^2y_5 + x_3x_5y_2^2y_4 - x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,-2,0,1,0,-1,0,1,0}^r(x_1(x_2^2x_3x_4x_5 + x_2^2x_3y_4y_5 - x_2^2x_4y_3y_5 + x_2^2x_5y_3y_4 + 2x_2x_3x_4y_2y_5 - 2x_2x_3x_5y_2y_4 + 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 - x_3y_2^2y_4y_5 + x_4y_2^2y_3y_5 - x_5y_2^2y_3y_4) + y_1(-x_2^2x_3x_4y_5 + x_2^2x_3x_5y_4 - x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 + 2x_2x_3x_4x_5y_2 + 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 + x_3x_4y_2^2y_5 - x_3x_5y_2^2y_4 + x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,-3,0,-2,0,0,0,0,0}^r(x_1(x_3^2x_3^2 - x_3^2y_3^2 -
\end{aligned}$$

$$\begin{aligned}
& 6x_2^2x_3y_2y_3 - 3x_2x_3^2y_2^2 + 3x_2y_2^2y_3^2 + 2x_3y_2^3y_3) + y_1(2x_2^3x_3y_3 + 3x_2^2x_3^2y_2 - \\
& 3x_2^2y_2y_3^2 - 6x_2x_3y_2^2y_3 - x_2^2y_2^3 + y_2^3y_3^2)) + a_{1,0,-3,0,0,0,-2,0,0,0}^r(x_1(x_2^3x_4^2 - x_2^2y_4^2 - \\
& 6x_2^2x_4y_2y_4 - 3x_2x_4^2y_2^2 + 3x_2y_2^2y_4^2 + 2x_4y_2^3y_4) + y_1(2x_2^3x_4y_4 + 3x_2^2x_4^2y_2 - \\
& 3x_2^2y_2y_4^2 - 6x_2x_4y_2^2y_4 - x_2^2y_2^3 + y_2^3y_4^2)) + a_{1,0,-3,0,0,0,0,0,2,0}^r(x_1(x_2^3x_5^2 - x_2^2y_5^2 + \\
& 6x_2^2x_5y_2y_5 - 3x_2x_5^2y_2^2 + 3x_2y_2^2y_5^2 - 2x_5y_2^3y_5) + y_1(-2x_2^3x_5y_5 + 3x_2^2x_5^2y_2 - \\
& 3x_2^2y_2y_5^2 + 6x_2x_5y_2^2y_5 - x_2^2y_2^3 + y_2^3y_5^2)) + a_{1,0,0,0,-1,0,-1,0,-3,0}^r(x_1(x_3x_4x_5^3 - \\
& 3x_3x_4x_5y_5^2 - 3x_3x_5^2y_4y_5 + x_3y_4y_5^3 - 3x_4x_5^2y_3y_5 + x_4y_3y_5^3 - x_5^3y_3y_4 + \\
& 3x_5y_3y_4y_5^2) + y_1(3x_3x_4x_5^2y_5 - x_3x_4y_5^3 + x_3x_5^3y_4 - 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - \\
& 3x_4x_5y_3y_5^2 - 3x_5^2y_3y_4y_5 + y_3y_4y_5^3)) + a_{1,0,0,0,-1,0,-1,0,3,0}^r(x_1(x_3x_4x_5^3 - 3x_3x_4x_5y_5^2 + \\
& 3x_3x_5^2y_4y_5 - x_3y_4y_5^3 + 3x_4x_5^2y_3y_5 - x_4y_3y_5^3 - x_5^3y_3y_4 + 3x_5y_3y_4y_5^2) + y_1(- \\
& 3x_3x_4x_5^2y_5 + x_3x_4y_5^3 + x_3x_5^3y_4 - 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - 3x_4x_5y_3y_5^2 + \\
& 3x_5^2y_3y_4y_5 - y_3y_4y_5^3)) + a_{1,0,0,0,-1,0,-3,0,1,0}^r(x_1(x_3x_4^3x_5 + 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 - \\
& x_3y_4^3y_5 + x_4^3y_3y_5 - 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 + x_5y_3y_4^3) + y_1(-x_3x_4^3y_5 + \\
& 3x_3x_4^2x_5y_4 + 3x_3x_4y_4^2y_5 - x_3x_5y_4^3 + x_4^3x_5y_3 + 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 - \\
& y_3y_4^3y_5)) + a_{1,0,0,0,-1,0,1,0,-1,1}^r(x_1(x_5^2 + y_5^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - \\
& x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,-1,0,1,1,-1,0}^r(x_1(x_4^2 + y_4^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + \\
& x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,-1,0,3,0,1,0}^r(x_1(x_3x_4^3x_5 - \\
& 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 + x_3y_4^3y_5 + x_4^3y_3y_5 + 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 - \\
& x_5y_3y_4^3) + y_1(-x_3x_4^3y_5 - 3x_3x_4^2x_5y_4 + 3x_3x_4y_4^2y_5 + x_3x_5y_4^3 + x_4^3x_5y_3 - \\
& 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 + y_3y_4^3y_5)) + a_{1,0,0,0,-1,1,1,0,-1,0}^r(x_1(x_3^2 + y_3^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - \\
& x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,-3,0,-1,0,1,0}^r(x_1(x_3^3x_4x_5 + \\
& x_3^3y_4y_5 + 3x_2^3x_4y_3y_5 - 3x_2^3x_5y_3y_4 - 3x_3x_4x_5y_3^2 - 3x_3y_3^2y_4y_5 - x_4y_3^3y_5 + \\
& x_5y_3^3y_4) + y_1(-x_3^3x_4y_5 + x_3^3x_5y_4 + 3x_2^3x_4x_5y_3 + 3x_2^3y_3y_4y_5 + 3x_3x_4y_3^2y_5 - \\
& 3x_3x_5y_3^2y_4 - x_4x_5y_3^3 - y_3^3y_4y_5)) + a_{1,0,0,0,1,0,-1,0,-1,1}^r(x_1(x_5^2 + y_5^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + \\
& x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,-1,1,-1,0}^r(x_1(x_4^2 + \\
& y_4^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,0,0,0,1,0,1,0,1,1}^r(x_1(x_5^2 + y_5^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(-x_3x_4y_5 - x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,1,1,1,0}^r(x_1(x_4^2 + y_4^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,1,-1,0,-1,0}^r(x_1(x_3^2 + y_3^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + \\
& x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,1,1,0,1,0}^r(x_1(x_3^2 + \\
& y_3^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,0,0,0,3,0,-1,0,1,0}^r(x_1(x_3^3x_4x_5 + x_3^3y_4y_5 - 3x_2^3x_4y_3y_5 + 3x_2^3x_5y_3y_4 - 3x_3x_4x_5y_3^2 - \\
& 3x_3y_3^2y_4y_5 + x_4y_3^3y_5 - x_5y_3^3y_4) + y_1(-x_3^3x_4y_5 + x_3^3x_5y_4 - 3x_2^3x_4x_5y_3 - \\
& 3x_2^3y_3y_4y_5 + 3x_3x_4y_3^2y_5 - 3x_3x_5y_3^2y_4 + x_4x_5y_3^3 + y_3^3y_4y_5)) + a_{1,0,0,1,-1,0,1,0,-1,0}^r(x_1(x_2^2 + \\
& y_2^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,0,0,1,1,0,-1,0,-1,0}^r(x_1(x_2^2 + y_2^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,1,1,0,1,0,1,0}^r(x_1(x_2^2 + y_2^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,1,0,-2,0,-2,0,0,0}^r(x_1(x_2x_3^2x_4^2 - x_2x_3^2y_4^2 - \\
& 4x_2x_3x_4y_3y_4 - x_2x_4^2y_3^2 + x_2y_3^2y_4^2 + 2x_2^3x_4y_2y_4 + 2x_3x_4^2y_2y_3 - 2x_3y_2y_3y_4^2 - \\
& 2x_4y_2y_3^2y_4) + y_1(2x_2x_3^2x_4y_4 + 2x_2x_3x_4^2y_3 - 2x_2x_3y_3y_4^2 - 2x_2x_4y_3^2y_4 - x_2^3x_4^2y_2 + \\
& x_3^2y_2y_4^2 + 4x_3x_4y_2y_3y_4 + x_4^2y_2y_3^2 - y_2y_3^2y_4^2)) + a_{1,0,1,0,-2,0,0,0,2,0}^r(x_1(x_2x_3^2x_5^2 - \\
& x_2x_3^2y_5^2 + 4x_2x_3x_5y_3y_5 - x_2x_5^2y_3^2 + x_2y_3^2y_5^2 - 2x_2^3x_5y_2y_5 + 2x_3x_5^2y_2y_3 -
\end{aligned}$$

$$\begin{aligned}
& 2x_3y_2y_3y_5^2 + 2x_5y_2y_3^2y_5) + y_1(-2x_2x_3^2x_5y_5 + 2x_2x_3x_5^2y_3 - 2x_2x_3y_3y_5^2 + \\
& 2x_2x_5y_3^2y_5 - x_3^2x_5^2y_2 + x_3^2y_2y_5^2 - 4x_3x_5y_2y_3y_5 + x_5^2y_2y_3^2 - y_2y_3^2y_5^2) + \\
& a_{1,0,1,0,-4,0,0,0,0}^r(x_1(x_2x_4^4 - 6x_2x_3^2y_3^2 + x_2y_3^4 + 4x_3^3y_2y_3 - 4x_3y_2y_3^3) + y_1(4x_2x_3^3y_3 - \\
& 4x_2x_3y_3^3 - x_3^4y_2 + 6x_3^2y_2y_3^2 - y_2y_3^4)) + a_{1,0,1,0,0,0,-2,0,2,0}^r(x_1(x_2x_4^2x_5^2 - x_2x_4^2y_5^2 + \\
& 4x_2x_4x_5y_4y_5 - x_2x_5^2y_4^2 + x_2y_4^2y_5^2 - 2x_4^2x_5y_2y_5 + 2x_4x_5^2y_2y_4 - 2x_4y_2y_4y_5^2 + \\
& 2x_5y_2y_4^2y_5) + y_1(-2x_2x_4^2x_5y_5 + 2x_2x_4x_5^2y_4 - 2x_2x_4y_4y_5^2 + 2x_2x_5y_4^2y_5 - x_4^2x_5^2y_2 + \\
& x_4^2y_2y_5^2 - 4x_4x_5y_2y_4y_5 + x_5^2y_2y_4^2 - y_2y_4^2y_5^2)) + a_{1,0,1,0,0,0,-4,0,0,0}^r(x_1(x_2x_4^4 - \\
& 6x_2x_4^2y_4^2 + x_2y_4^4 + 4x_4^3y_2y_4 - 4x_4y_2y_4^3) + y_1(4x_2x_4^3y_4 - 4x_2x_4y_4^3 - x_4^4y_2 + \\
& 6x_4^2y_2y_4^2 - y_2y_4^4)) + a_{1,0,1,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - \\
& x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,0,0,4,0}^r(x_1(x_2x_5^4 - 6x_2x_5^2y_5^2 + x_2y_5^4 - 4x_5^3y_2y_5 + 4x_5y_2y_5^3) + \\
& y_1(-4x_2x_5^3y_5 + 4x_2x_5y_5^3 - x_5^4y_2 + 6x_5^2y_2y_5^2 - y_2y_5^4)) + a_{1,0,1,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,0,0,2,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,0,0,1,0,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,1,2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,2,0,0,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,0,1,0,2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,0,1,0,2,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,0,1,1,0,0,0,0,-2,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,1,2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + \\
& a_{1,0,2,0,-1,0,-1,0,1,0}^r(x_1(x_2^2x_3x_4x_5 + x_2^2x_3y_4y_5 + x_2^2x_4y_3y_5 - x_2^2x_5y_3y_4 - 2x_2x_3x_4y_2y_5 + \\
& 2x_2x_3x_5y_2y_4 + 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 - x_3y_2^2y_4y_5 - x_4y_2^2y_3y_5 + \\
& x_5y_2^2y_3y_4) + y_1(-x_2^2x_3x_4y_5 + x_2^2x_3x_5y_4 + x_2^2x_4x_5y_3 + x_2^2y_3y_4y_5 - 2x_2x_3x_4x_5y_2 - \\
& 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 + x_3x_4y_2^2y_5 - x_3x_5y_2^2y_4 - x_4x_5y_2^2y_3 - \\
& y_2^2y_3y_4y_5)) + a_{1,0,2,0,1,0,1,0,-1,0}^r(x_1(x_2^2x_3x_4x_5 + x_2^2x_3y_4y_5 + x_2^2x_4y_3y_5 - x_2^2x_5y_3y_4 + \\
& 2x_2x_3x_4y_2y_5 - 2x_2x_3x_5y_2y_4 - 2x_2x_4x_5y_2y_3 - 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 - x_3y_2^2y_4y_5 - \\
& x_4y_2^2y_3y_5 + x_5y_2^2y_3y_4) + y_1(x_2^2x_3x_4y_5 - x_2^2x_3x_5y_4 - x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 - \\
& 2x_2x_3x_4x_5y_2 - 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 - x_3x_4y_2^2y_5 + x_3x_5y_2^2y_4 + \\
& x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,3,0,-2,0,0,0,0,0}^r(x_1(x_2^3x_3^2 - x_2^3y_3^2 + 6x_2^2x_3y_2y_3 - \\
& 3x_2x_3^2y_2^2 + 3x_2y_2^2y_3^2 - 2x_3y_2^3y_3) + y_1(2x_2^3x_3y_3 - 3x_2^2x_3^2y_2 + 3x_2^2y_2y_3^2 - \\
& 6x_2x_3y_2^2y_3 + x_3^2y_2^3 - y_2^3y_3^2)) + a_{1,0,3,0,0,0,-2,0,0,0}^r(x_1(x_2^3x_4^2 - x_2^3y_4^2 + 6x_2^2x_4y_2y_4 - \\
& 3x_2x_4^2y_2^2 + 3x_2y_2^2y_4^2 - 2x_4y_2^3y_4) + y_1(2x_2^3x_4y_4 - 3x_2^2x_4^2y_2 + 3x_2^2y_2y_4^2 - \\
& 6x_2x_4y_2^2y_4 + x_4^2y_2^3 - y_2^3y_4^2)) + a_{1,0,3,0,0,0,0,0,2,0}^r(x_1(x_2^3x_5^2 - x_2^3y_5^2 - 6x_2^2x_5y_2y_5 - \\
& 3x_2x_5^2y_2^2 + 3x_2y_2^2y_5^2 + 2x_5y_2^3y_5) + y_1(-2x_2^3x_5y_5 - 3x_2^2x_5^2y_2 + 3x_2^2y_2y_5^2 + \\
& 6x_2x_5y_2^2y_5 + x_5^2y_2^3 - y_2^3y_5^2)) + a_{1,0,5,0,0,0,0,0,0,0}^r(x_1(x_2^5 - 10x_2^3y_2^2 + 5x_2y_2^4) + y_1(- \\
& 5x_2^4y_2 + 10x_2^2y_2^2 - y_2^5)) + a_{1,1,-1,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + \\
& a_{1,1,-1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,1,-1,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_1x_2 + \\
& y_1y_2) + a_{1,1,-1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_1x_2 + y_1y_2) + a_{1,1,0,0,-1,0,1,0,-1,0}^r(x_1^2 + \\
& y_1^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,1,0,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 -
\end{aligned}$$

$$\begin{aligned}
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,1,0,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4x_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,1,1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_2x_5^2 - x_2y_5^2 + \\
& 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,1,1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2x_4^2 - x_2y_4^2 - \\
& 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,1,1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2x_3^2 - x_2y_3^2 - \\
& 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,2,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_1x_2 + y_1y_2) + \\
& a_{2,0,-1,0,-1,0,1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 - 2x_2x_3x_5y_1y_4 + 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + \\
& 2x_3x_4x_5y_1y_2 + 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 + \\
& x_1^2x_3y_4y_5 - x_1^2x_4y_3y_5 + x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 + x_4y_1^2y_3y_5 - \\
& x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 - x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 + x_3x_4y_1^2y_5 - \\
& x_3x_5y_1^2y_4 + x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-1,0,1,0,-1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 + 2x_2x_3x_5y_1y_4 - \\
& 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 + 2x_4y_1y_2y_3y_5 + \\
& 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 - x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 + x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 + \\
& x_3y_1^2y_4y_5 - x_4y_1^2y_3y_5 - x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 - x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 - \\
& x_1^2y_3y_4y_5 + x_3x_4y_1^2y_5 + x_3x_5y_1^2y_4 - x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-1,0,1,0,1,0,1,0}^r(x_1(- \\
& 2x_2x_3x_4y_1y_5 - 2x_2x_3x_5y_1y_4 - 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + 2x_3x_4x_5y_1y_2 - \\
& 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 - 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 - x_1^2x_3y_4y_5 - \\
& x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 + x_3y_1^2y_4y_5 + x_4y_1^2y_3y_5 + x_5y_1^2y_3y_4) + \\
& y_2(x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 - x_3x_4y_1^2y_5 - x_3x_5y_1^2y_4 - \\
& x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(- \\
& x_2 + y_2)) + a_{2,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + \\
& a_{2,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,0,0,0,-2,0,-2,0,0,0}^r(x_1(x_3x_4 - x_3y_4 - x_4y_3 - \\
& y_3y_4) + y_1(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4))(x_1(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) + y_1(-x_3x_4 + x_3y_4 + x_4y_3 + \\
& y_3y_4)) + a_{2,0,0,0,-2,0,0,0,2,0}^r(x_1(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5) + y_1(-x_3x_5 - x_3y_5 + x_5y_3 - y_3y_5))(x_1(x_3x_5 + \\
& x_3y_5 - x_5y_3 + y_3y_5) + y_1(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)) + a_{2,0,0,0,-4,0,0,0,0,0}^r(x_1(x_3^2 - 2x_3y_3 - y_3^2) + \\
& y_1(x_3^2 + 2x_3y_3 - y_3^2))(x_1(x_3^2 + 2x_3y_3 - y_3^2) + y_1(-x_3^2 + 2x_3y_3 + y_3^2)) + a_{2,0,0,0,0,0,-2,0,2,0}^r(x_1(x_4x_5 - \\
& x_4y_5 + x_5y_4 + y_4y_5) + y_1(-x_4x_5 - x_4y_5 + x_5y_4 - y_4y_5))(x_1(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + y_1(x_4x_5 - \\
& x_4y_5 + x_5y_4 + y_4y_5)) + a_{2,0,0,0,0,0,-4,0,0,0}^r(x_1(x_4^2 - 2x_4y_4 - y_4^2) + y_1(x_4^2 + 2x_4y_4 - y_4^2))(x_1(x_4^2 + \\
& 2x_4y_4 - y_4^2) + y_1(-x_4^2 + 2x_4y_4 + y_4^2)) + a_{2,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + \\
& y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,0,0,0,0,0,4,0}^r(x_1(x_5^2 - 2x_5y_5 - y_5^2) + y_1(-x_5^2 - 2x_5y_5 + y_5^2))(x_1(x_5^2 + 2x_5y_5 - \\
& y_5^2) + y_1(x_5^2 - 2x_5y_5 - y_5^2)) + a_{2,0,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(- \\
& x_5 + y_5)) + a_{2,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + \\
& a_{2,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_4 - y_4) + y_1(- \\
& x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + \\
& y_1(x_3 - y_3)) + a_{2,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + \\
& a_{2,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + a_{2,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_4 - y_4) + y_1(- \\
& x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + \\
& y_1(x_3 - y_3)) + a_{2,0,1,0,-1,0,-1,0,1,0}^r(x_1(-2x_2x_3x_4y_1y_5 + 2x_2x_3x_5y_1y_4 + 2x_2x_4x_5y_1y_3 + \\
& 2x_2y_1y_3y_4y_5 - 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + \\
& x_2(x_1^2x_3x_4x_5 + x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_4 y_1^2 y_3 y_5 + x_5 y_1^2 y_3 y_4) + y_2(-x_1^2 x_3 x_4 y_5 + x_1^2 x_3 x_5 y_4 + x_1^2 x_4 x_5 y_3 + x_1^2 y_3 y_4 y_5 + \\
& x_3 x_4 y_1^2 y_5 - x_3 x_5 y_1^2 y_4 - x_4 x_5 y_1^2 y_3 - y_1^2 y_3 y_4 y_5)) + a_{2,0,1,0,1,0,1,0,-1,0}^r(x_1(2x_2 x_3 x_4 y_1 y_5 - \\
& 2x_2 x_3 x_5 y_1 y_4 - 2x_2 x_4 x_5 y_1 y_3 - 2x_2 y_1 y_3 y_4 y_5 - 2x_3 x_4 x_5 y_1 y_2 - 2x_3 y_1 y_2 y_4 y_5 - \\
& 2x_4 y_1 y_2 y_3 y_5 + 2x_5 y_1 y_2 y_3 y_4) + x_2(x_1^2 x_3 x_4 x_5 + x_1^2 x_3 y_4 y_5 + x_1^2 x_4 y_3 y_5 - x_1^2 x_5 y_3 y_4 - \\
& x_3 x_4 x_5 y_1^2 - x_3 y_1^2 y_4 y_5 - x_4 y_1^2 y_3 y_5 + x_5 y_1^2 y_3 y_4) + y_2(x_1^2 x_3 x_4 y_5 - x_1^2 x_3 x_5 y_4 - \\
& x_1^2 x_4 x_5 y_3 - x_1^2 y_3 y_4 y_5 - x_3 x_4 y_1^2 y_5 + x_3 x_5 y_1^2 y_4 + x_4 x_5 y_1^2 y_3 + y_1^2 y_3 y_4 y_5)) + \\
& a_{2,0,2,0,-2,0,0,0,0,0}^r(x_1(x_2 x_3 - x_2 y_3 + x_3 y_2 + y_2 y_3) + y_1(x_2 x_3 + x_2 y_3 - x_3 y_2 + y_2 y_3))(x_1(x_2 x_3 + x_2 y_3 - \\
& x_3 y_2 + y_2 y_3) + y_1(-x_2 x_3 + x_2 y_3 - x_3 y_2 - y_2 y_3)) + a_{2,0,2,0,0,0,-2,0,0,0}^r(x_1(x_2 x_4 - x_2 y_4 + x_4 y_2 + y_2 y_4) + \\
& y_1(x_2 x_4 + x_2 y_4 - x_4 y_2 + y_2 y_4))(x_1(x_2 x_4 + x_2 y_4 - x_4 y_2 + y_2 y_4) + y_1(-x_2 x_4 + x_2 y_4 - x_4 y_2 - y_2 y_4)) + \\
& a_{2,0,2,0,0,0,0,0,2,0}^r(x_1(x_2 x_5 - x_2 y_5 - x_5 y_2 - y_2 y_5) + y_1(-x_2 x_5 - x_2 y_5 - x_5 y_2 + y_2 y_5))(x_1(x_2 x_5 + x_2 y_5 + \\
& x_5 y_2 - y_2 y_5) + y_1(x_2 x_5 - x_2 y_5 - x_5 y_2 - y_2 y_5)) + a_{2,0,4,0,0,0,0,0,0,0}^r(x_1(x_2^2 - 2x_2 y_2 - y_2^2) + y_1(-x_2^2 - \\
& 2x_2 y_2 + y_2^2))(x_1(x_2^2 + 2x_2 y_2 - y_2^2) + y_1(x_2^2 - 2x_2 y_2 - y_2^2)) + a_{2,1,-2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2 - \\
& y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_5 - y_5) + y_1(x_5 + \\
& y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + \\
& y_1(x_4 - y_4)) + a_{2,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + \\
& a_{3,0,-1,0,0,0,0,0,-2,0}^r(x_1(-3x_2 x_5^2 y_1^2 + 3x_2 y_1^2 y_5^2 + 6x_5 y_1^2 y_2 y_5) + x_2(x_1^3 x_5^2 - x_1^3 y_5^2 - \\
& 2x_5 y_1^3 y_5) + y_1(6x_1^2 x_2 x_5 y_5 + 3x_1^2 x_5^2 y_2 - 3x_1^2 y_2 y_5^2) + y_2(-2x_1^3 x_5 y_5 - x_5^2 y_1^3 + \\
& y_1^3 y_5^2)) + a_{3,0,-1,0,0,0,2,0,0,0}^r(x_1(-3x_2 x_4^2 y_1^2 + 3x_2 y_1^2 y_4^2 - 6x_4 y_1^2 y_2 y_4) + x_2(x_1^3 x_4^2 - \\
& x_1^3 y_4^2 + 2x_4 y_1^3 y_4) + y_1(-6x_1^2 x_2 x_4 y_4 + 3x_1^2 x_4^2 y_2 - 3x_1^2 y_2 y_4^2) + y_2(2x_1^3 x_4 y_4 - \\
& x_4^2 y_1^3 + y_1^3 y_4^2)) + a_{3,0,-1,0,2,0,0,0,0,0}^r(x_1(-3x_2 x_3^2 y_1^2 + 3x_2 y_1^2 y_3^2 - 6x_3 y_1^2 y_2 y_3) + \\
& x_2(x_1^3 x_3^2 - x_1^3 y_3^2 + 2x_3 y_1^3 y_3) + y_1(-6x_1^2 x_2 x_3 y_3 + 3x_1^2 x_3^2 y_2 - 3x_1^2 y_2 y_3^2) + \\
& y_2(2x_1^3 x_3 y_3 - x_3^2 y_1^3 + y_1^3 y_3^2)) + a_{3,0,-3,0,0,0,0,0,0,0}^r(x_1 x_2 + y_1 y_2)(x_1^2 x_2^2 - 3x_1^2 y_2^2 + \\
& 8x_1 x_2 y_1 y_2 - 3x_2^2 y_1^2 + y_1^2 y_2^2) + a_{3,0,0,0,-1,0,-1,0,1,0}^r(x_1(-3x_3 x_4 x_5 y_1^2 - 3x_3 y_1^2 y_4 y_5 - \\
& 3x_4 y_1^2 y_3 y_5 + 3x_5 y_1^2 y_3 y_4) + x_3(x_1^3 x_4 x_5 + x_1^3 y_4 y_5 + x_4 y_1^3 y_5 - x_5 y_1^3 y_4) + y_1(- \\
& 3x_1^2 x_3 x_4 y_5 + 3x_1^2 x_3 x_5 y_4 + 3x_1^2 x_4 x_5 y_3 + 3x_1^2 y_3 y_4 y_5) + y_3(x_1^3 x_4 y_5 - x_1^3 x_5 y_4 - \\
& x_4 x_5 y_1^3 - y_1^3 y_4 y_5)) + a_{3,0,0,0,1,0,1,0,-1,0}^r(x_1(-3x_3 x_4 x_5 y_1^2 - 3x_3 y_1^2 y_4 y_5 - 3x_4 y_1^2 y_3 y_5 + \\
& 3x_5 y_1^2 y_3 y_4) + x_3(x_1^3 x_4 x_5 + x_1^3 y_4 y_5 - x_4 y_1^3 y_5 + x_5 y_1^3 y_4) + y_1(3x_1^2 x_3 x_4 y_5 - \\
& 3x_1^2 x_3 x_5 y_4 - 3x_1^2 x_4 x_5 y_3 - 3x_1^2 y_3 y_4 y_5) + y_3(x_1^3 x_4 y_5 - x_1^3 x_5 y_4 + x_4 x_5 y_1^3 + \\
& y_1^3 y_4 y_5)) + a_{3,0,1,0,-2,0,0,0,0,0}^r(x_1(-3x_2 x_3^2 y_1^2 + 3x_2 y_1^2 y_3^2 - 6x_3 y_1^2 y_2 y_3) + x_2(x_1^3 x_3^2 - \\
& x_1^3 y_3^2 - 2x_3 y_1^3 y_3) + y_1(6x_1^2 x_2 x_3 y_3 - 3x_1^2 x_3^2 y_2 + 3x_1^2 y_2 y_3^2) + y_2(2x_1^3 x_3 y_3 + \\
& x_3^2 y_1^3 - y_1^3 y_3^2)) + a_{3,0,1,0,0,0,-2,0,0,0}^r(x_1(-3x_2 x_4^2 y_1^2 + 3x_2 y_1^2 y_4^2 - 6x_4 y_1^2 y_2 y_4) + \\
& x_2(x_1^3 x_4^2 - x_1^3 y_4^2 - 2x_4 y_1^3 y_4) + y_1(6x_1^2 x_2 x_4 y_4 - 3x_1^2 x_4^2 y_2 + 3x_1^2 y_2 y_4^2) + \\
& y_2(2x_1^3 x_4 y_4 + x_4^2 y_1^3 - y_1^3 y_4^2)) + a_{3,0,1,0,0,0,0,0,2,0}^r(x_1(-3x_2 x_5^2 y_1^2 + 3x_2 y_1^2 y_5^2 + \\
& 6x_5 y_1^2 y_2 y_5) + x_2(x_1^3 x_5^2 - x_1^3 y_5^2 + 2x_5 y_1^3 y_5) + y_1(-6x_1^2 x_2 x_5 y_5 - 3x_1^2 x_5^2 y_2 + \\
& 3x_1^2 y_2 y_5^2) + y_2(-2x_1^3 x_5 y_5 + x_5^2 y_1^3 - y_1^3 y_5^2)) + a_{3,0,3,0,0,0,0,0,0,0}^r(x_1 x_2 - y_1 y_2)(x_1^2 x_2^2 - \\
& 3x_1^2 y_2^2 - 8x_1 x_2 y_1 y_2 - 3x_2^2 y_1^2 + y_1^2 y_2^2) + a_{4,0,0,0,-2,0,0,0,0,0}^r(x_1(-2x_3 y_1 + 2y_1 y_3) + x_3(x_1^2 - \\
& y_1^2) + y_3(x_1^2 - y_1^2))(x_1(2x_3 y_1 + 2y_1 y_3) + x_3(x_1^2 - y_1^2) + y_3(-x_1^2 + y_1^2)) + a_{4,0,0,0,0,0,-2,0,0,0}^r(x_1(- \\
& 2x_4 y_1 + 2y_1 y_4) + x_4(x_1^2 - y_1^2) + y_4(x_1^2 - y_1^2))(x_1(2x_4 y_1 + 2y_1 y_4) + x_4(x_1^2 - y_1^2) + y_4(-x_1^2 + \\
& y_1^2)) + a_{4,0,0,0,0,0,0,0,2,0}^r(x_1(-2x_5 y_1 - 2y_1 y_5) + x_5(x_1^2 - y_1^2) + y_5(-x_1^2 + y_1^2))(x_1(2x_5 y_1 - 2y_1 y_5) + \\
& x_5(x_1^2 - y_1^2) + y_5(x_1^2 - y_1^2)) + a_{4,0,2,0,0,0,0,0,0,0}^r(x_1(-2x_2 y_1 - 2y_1 y_2) + x_2(x_1^2 - y_1^2) + y_2(-x_1^2 + \\
& y_1^2))(x_1(2x_2 y_1 - 2y_1 y_2) + x_2(x_1^2 - y_1^2) + y_2(x_1^2 - y_1^2)) + a_{5,0,1,0,0,0,0,0,0,0}^r(-5x_1^4 y_1 y_2 + \\
& 5x_1 x_2 y_1^4 + x_2(x_1^5 - 10x_1^3 y_1^2) + y_2(10x_1^2 y_1^3 - y_1^5)) + a_{6,0,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 -
\end{aligned}$$



$$4x_1y_1 + y_1^2)(x_1^2 + 4x_1y_1 + y_1^2)$$

$$\begin{aligned}
H_{+-}^{(6)} = & b_{-1,0,-1,0,-2,0,-2,0,0,0}^r (x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + \\
& x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 - 2x_1x_3x_4^2y_2y_3 + 2x_1x_3y_2y_3y_4^2 + 2x_1x_4y_2y_3^2y_4 - \\
& 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 - x_3^2x_4^2y_1y_2 + \\
& x_3^2y_1y_2y_4^2 + 4x_3x_4y_1y_2y_3y_4 + x_4^2y_1y_2y_3^2 - y_1y_2y_3^2y_4^2) - \\
& ib_{-1,0,-1,0,-2,0,-2,0,0,0}^r (2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 + \\
& x_1x_3^2x_4^2y_2 - x_1x_3^2y_2y_4^2 - 4x_1x_3x_4y_2y_3y_4 - x_1x_4^2y_2y_3^2 + x_1y_2y_3^2y_4^2 + \\
& x_2x_3^2x_4^2y_1 - x_2x_3^2y_1y_4^2 - 4x_2x_3x_4y_1y_3y_4 - x_2x_4^2y_1y_3^2 + x_2y_1y_3^2y_4^2 - \\
& 2x_3^2x_4y_1y_2y_4 - 2x_3x_4^2y_1y_2y_3 + 2x_3y_1y_2y_3y_4^2 + 2x_4y_1y_2y_3^2y_4) + \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r (x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + \\
& x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 + 2x_1x_3y_2y_3y_5^2 - 2x_1x_5y_2y_3^2y_5 + \\
& 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 - 2x_2x_5y_1y_3^2y_5 - x_3^2x_5^2y_1y_2 + \\
& x_3^2y_1y_2y_5^2 - 4x_3x_5y_1y_2y_3y_5 + x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) + \\
& ib_{-1,0,-1,0,-2,0,0,0,2,0}^r (2x_1x_2x_3^2x_5y_5 - 2x_1x_2x_3x_5^2y_3 + 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 - \\
& x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 - 4x_1x_3x_5y_2y_3y_5 + x_1x_5^2y_2y_3^2 - x_1y_2y_3^2y_5^2 - \\
& x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 - 4x_2x_3x_5y_1y_3y_5 + x_2x_5^2y_1y_3^2 - x_2y_1y_3^2y_5^2 - \\
& 2x_3^2x_5y_1y_2y_5 + 2x_3x_5^2y_1y_2y_3 - 2x_3y_1y_2y_3y_5^2 + 2x_5y_1y_2y_3^2y_5) + \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r (x_1x_2x_3^4 - 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 - 4x_1x_3^3y_2y_3 + 4x_1x_3y_2y_3^3 - \\
& 4x_2x_3^3y_1y_3 + 4x_2x_3y_1y_3^3 - x_4^3y_1y_2 + 6x_3^2y_1y_2y_3^2 - y_1y_2y_3^4) - \\
& ib_{-1,0,-1,0,-4,0,0,0,0,0}^r (4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 + x_1x_4^3y_2 - 6x_1x_3^2y_2y_3^2 + x_1y_2y_3^4 + \\
& x_2x_3^4y_1 - 6x_2x_3^2y_1y_3^2 + x_2y_1y_3^4 - 4x_3^3y_1y_2y_3 + 4x_3y_1y_2y_3^3) + \\
& b_{-1,0,-1,0,0,0,-2,0,2,0}^r (x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 + 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + \\
& x_1x_2y_4^2y_5^2 + 2x_1x_4^2x_5y_2y_5 - 2x_1x_4x_5^2y_2y_4 + 2x_1x_4y_2y_4y_5^2 - 2x_1x_5y_2y_4^2y_5 + \\
& 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 - x_4^2x_5^2y_1y_2 + \\
& x_4^2y_1y_2y_5^2 - 4x_4x_5y_1y_2y_4y_5 + x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) + \\
& ib_{-1,0,-1,0,0,0,-2,0,2,0}^r (2x_1x_2x_4^2x_5y_5 - 2x_1x_2x_4x_5^2y_4 + 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 - \\
& x_1x_4^2x_5^2y_2 + x_1x_4^2y_2y_5^2 - 4x_1x_4x_5y_2y_4y_5 + x_1x_5^2y_2y_4^2 - x_1y_2y_4^2y_5^2 - \\
& x_2x_4^2x_5^2y_1 + x_2x_4^2y_1y_5^2 - 4x_2x_4x_5y_1y_4y_5 + x_2x_5^2y_1y_4^2 - x_2y_1y_4^2y_5^2 - \\
& 2x_4^2x_5y_1y_2y_5 + 2x_4x_5^2y_1y_2y_4 - 2x_4y_1y_2y_4y_5^2 + 2x_5y_1y_2y_4^2y_5) + \\
& b_{-1,0,-1,0,0,0,-4,0,0,0}^r (x_1x_2x_4^4 - 6x_1x_2x_4^2y_4^2 + x_1x_2y_4^4 - 4x_1x_4^3y_2y_4 + 4x_1x_4y_2y_4^3 - \\
& 4x_2x_4^3y_1y_4 + 4x_2x_4y_1y_4^3 - x_4^4y_1y_2 + 6x_4^2y_1y_2y_4^2 - y_1y_2y_4^4) - \\
& ib_{-1,0,-1,0,0,0,-4,0,0,0}^r (4x_1x_2x_4^3y_4 - 4x_1x_2x_4y_4^3 + x_1x_4^4y_2 - 6x_1x_4^2y_2y_4^2 + x_1y_2y_4^4 + \\
& x_2x_4^4y_1 - 6x_2x_4^2y_1y_4^2 + x_2y_1y_4^4 - 4x_4^3y_1y_2y_4 + 4x_4y_1y_2y_4^3) + b_{-1,0,-1,0,0,0,0,0,-2,1}^r (x_5^2 + \\
& y_5^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) - \\
& ib_{-1,0,-1,0,0,0,0,0,-2,1}^r (x_5^2 + y_5^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - \\
& 2x_5y_1y_2y_5) + b_{-1,0,-1,0,0,0,0,0,4,0}^r (x_1x_2x_5^4 - 6x_1x_2x_5^2y_5^2 + x_1x_2y_5^4 + 4x_1x_5^3y_2y_5 - \\
& 4x_1x_5y_2y_5^3 + 4x_2x_5^3y_1y_5 - 4x_2x_5y_1y_5^3 - x_4^4y_1y_2 + 6x_5^2y_1y_2y_5^2 - y_1y_2y_5^4) + \\
& ib_{-1,0,-1,0,0,0,0,0,4,0}^r (4x_1x_2x_5^3y_5 - 4x_1x_2x_5y_5^3 - x_1x_5^4y_2 + 6x_1x_5^2y_2y_5^2 - x_1y_2y_5^4 - \\
& x_2x_5^4y_1 + 6x_2x_5^2y_1y_5^2 - x_2y_1y_5^4 - 4x_5^3y_1y_2y_5 + 4x_5y_1y_2y_5^3) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r (x_4^2 + \\
& y_4^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) - \\
& ib_{-1,0,-1,0,0,0,0,0,1,-2,0}^r (x_4^2 + y_4^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 -
\end{aligned}$$

$$\begin{aligned}
& 2x_5y_1y_2y_5) + b_{-1,0,-1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - \\
& x_4^2y_1y_2 + y_1y_2y_4^2) + ib_{-1,0,-1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - \\
& x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,0,-1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + \\
& 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) + ib_{-1,0,-1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_4y_4 - \\
& x_1x_4^2y_2 + x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) - \\
& ib_{-1,0,-1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - \\
& 2x_5y_1y_2y_5) + b_{-1,0,-1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - \\
& x_4^2y_1y_2 + y_1y_2y_4^2) + ib_{-1,0,-1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - \\
& x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,0,-1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) + ib_{-1,0,-1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_3y_3 - \\
& x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,0,-1,0,2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) + \\
& ib_{-1,0,-1,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - \\
& 2x_3y_1y_2y_3) + b_{-1,0,-1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - \\
& x_3^2y_1y_2 + y_1y_2y_3^2) + ib_{-1,0,-1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - \\
& x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,0,-1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - \\
& 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) - ib_{-1,0,-1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 + \\
& x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) + b_{-1,0,-1,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) + \\
& ib_{-1,0,-1,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - \\
& 2x_4y_1y_2y_4) + b_{-1,0,-1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - \\
& x_3^2y_1y_2 + y_1y_2y_3^2) + ib_{-1,0,-1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - \\
& x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,0,-2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 - \\
& x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 - \\
& 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 - \\
& x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 - \\
& 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 + \\
& x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) - ib_{-1,0,-2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 + \\
& x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 + \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 + \\
& x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 + \\
& 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + \\
& x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 + \\
& x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 - \\
& 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 - \\
& x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + \\
& 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 - \\
& x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) - ib_{-1,0,-2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 - \\
& x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 + \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 + \\
& x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 -
\end{aligned}$$

$$\begin{aligned}
& 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 - \\
& x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 - \\
& x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 - \\
& 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 + \\
& x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + \\
& 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 + 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 - \\
& x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) + ib_{-1,0,-2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 + \\
& x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 + \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 - \\
& x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - \\
& 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 - \\
& x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + \\
& y_1y_2^3) - ib_{-1,0,-3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + \\
& b_{-1,0,-3,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) - ib_{-1,0,-3,0,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + b_{-1,0,-3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2^3 - \\
& 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) - ib_{-1,0,-3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - \\
& 3x_2y_1y_2^2) + b_{-1,0,-3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) - \\
& ib_{-1,0,-3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + b_{-1,0,0,0,-1,0,-1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) + ib_{-1,0,0,0,-1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - \\
& x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + \\
& x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{-1,0,0,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,0,-1,0,-3,0,-1,0}^r(x_1x_3x_4^3x_5 - 3x_1x_3x_4^2y_4y_5 - \\
& 3x_1x_3x_4x_5y_4^2 + x_1x_3y_3y_5 - x_1x_4^3y_3y_5 - 3x_1x_4^2x_5y_3y_4 + 3x_1x_4y_3y_4^2y_5 + \\
& x_1x_5y_3y_4^3 - x_3x_4^3y_1y_5 - 3x_3x_4^2x_5y_1y_4 + 3x_3x_4y_1y_4^2y_5 + x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 + \\
& 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 - y_1y_3y_4^3y_5) - ib_{-1,0,0,0,-1,0,-3,0,-1,0}^r(x_1x_3x_4^3y_5 + \\
& 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 - x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 - 3x_1x_4^2y_3y_4y_5 - \\
& 3x_1x_4x_5y_3y_4^2 + x_1y_3y_4^3y_5 + x_3x_4^3x_5y_1 - 3x_3x_4^2y_1y_4y_5 - 3x_3x_4x_5y_1y_4^2 + \\
& x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 - 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3) + \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 + 3x_1x_3x_5^2y_4y_5 - x_1x_3y_4y_5^3 - \\
& 3x_1x_4x_5^2y_3y_5 + x_1x_4y_3y_5^3 + x_1x_5^3y_3y_4 - 3x_1x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_1y_5 + \\
& x_3x_4y_1y_5^3 + x_3x_5^3y_1y_4 - 3x_3x_5y_1y_4y_5^2 - x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 - \\
& 3x_5^2y_1y_3y_4y_5 + y_1y_3y_4y_5^3) - ib_{-1,0,0,0,-1,0,1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - \\
& x_1x_3x_5^3y_4 + 3x_1x_3x_5y_4y_5^2 + x_1x_4x_5^3y_3 - 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - \\
& x_1y_3y_4y_5^3 + x_3x_4x_5^3y_1 - 3x_3x_4x_5y_1y_5^2 + 3x_3x_5^2y_1y_4y_5 - x_3y_1y_4y_5^3 - \\
& 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 + x_5^3y_1y_3y_4 - 3x_5y_1y_3y_4y_5^2) + b_{-1,0,0,0,-1,0,1,0,3,0}^r(x_1x_3x_4x_5^3 - \\
& 3x_1x_3x_4x_5y_5^2 - 3x_1x_3x_5^2y_4y_5 + x_1x_3y_4y_5^3 + 3x_1x_4x_5^2y_3y_5 - x_1x_4y_3y_5^3 + \\
& x_1x_5^3y_3y_4 - 3x_1x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_1y_5 - x_3x_4y_1y_5^3 + x_3x_5^3y_1y_4 - \\
& 3x_3x_5y_1y_4y_5^2 - x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 + 3x_5^2y_1y_3y_4y_5 - y_1y_3y_4y_5^3) + \\
& ib_{-1,0,0,0,-1,0,1,0,3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 + x_1x_3x_5^3y_4 - 3x_1x_3x_5y_4y_5^2 - \\
& x_1x_4x_5^3y_3 + 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 - x_3x_4x_5^3y_1 +
\end{aligned}$$



$$\begin{aligned}
& 3x_1x_4x_5y_3y_4^2 - x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 - 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 + \\
& x_3y_1y_4^3y_5 + x_4^3y_1y_3y_5 - 3x_4^2x_5y_1y_3y_4 - 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3) + \\
& b_{-1,0,0,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - ib_{-1,0,0,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - \\
& x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - ib_{-1,0,0,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - \\
& x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + \\
& b_{-1,0,0,0,1,0,3,0,1,0}^r(x_1x_3x_4^3x_5 - 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 + x_1x_3y_4^3y_5 - x_1x_4^3y_3y_5 - \\
& 3x_1x_4^2x_5y_3y_4 + 3x_1x_4y_3y_4^2y_5 + x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 + 3x_3x_4^2x_5y_1y_4 - \\
& 3x_3x_4y_1y_4^2y_5 - x_3x_5y_1y_4^3 + x_4^3x_5y_1y_3 - 3x_4^2y_1y_3y_4y_5 - 3x_4x_5y_1y_3y_4^2 + \\
& y_1y_3y_4^3y_5) + ib_{-1,0,0,0,1,0,3,0,1,0}^r(x_1x_3x_4^3y_5 + 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 - \\
& x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 - 3x_1x_4^2y_3y_4y_5 - 3x_1x_4x_5y_3y_4^2 + x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 + \\
& 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 - x_3y_1y_4^3y_5 + x_4^3y_1y_3y_5 + 3x_4^2x_5y_1y_3y_4 - \\
& 3x_4y_1y_3y_4^2y_5 - x_5y_1y_3y_4^3) + b_{-1,0,0,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - \\
& ib_{-1,0,0,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + b_{-1,0,0,0,3,0,-1,0,-1,0}^r(x_1x_3^3x_4x_5 - x_1x_3^3y_4y_5 + \\
& 3x_1x_3^2x_4y_3y_5 + 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 - x_1x_4y_3^3y_5 - \\
& x_1x_5y_3^3y_4 - x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 + 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 + \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 + y_1y_3^3y_4y_5) - \\
& ib_{-1,0,0,0,3,0,-1,0,-1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 - 3x_1x_3^2x_4x_5y_3 + 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 + x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 + x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 + \\
& 3x_3^2x_4y_1y_3y_5 + 3x_3^2x_5y_1y_3y_4 - 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 - \\
& x_5y_1y_3^3y_4) + b_{-1,0,0,0,3,0,1,0,1,0}^r(x_1x_3^3x_4x_5 - x_1x_3^3y_4y_5 - 3x_1x_3^2x_4y_3y_5 - 3x_1x_3^2x_5y_3y_4 - \\
& 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 + x_1x_4y_3^3y_5 + x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 + x_3^3x_5y_1y_4 + \\
& 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 - 3x_3x_4y_1y_3^2y_5 - 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 + \\
& y_1y_3^3y_4y_5) + ib_{-1,0,0,0,3,0,1,0,1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 + 3x_1x_3^2x_4x_5y_3 - \\
& 3x_1x_3^2y_3y_4y_5 - 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 + x_1y_3^3y_4y_5 - \\
& x_3^3x_4x_5y_1 + x_3^3y_1y_4y_5 + 3x_3^2x_4y_1y_3y_5 + 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 - \\
& 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 - x_5y_1y_3^3y_4) + b_{-1,0,0,1,-1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 + \\
& x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{-1,0,0,1,-1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - \\
& ib_{-1,0,0,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + b_{-1,0,1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - ib_{-1,0,1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_3y_3 - \\
& x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{-1,0,1,0,-2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - \\
& ib_{-1,0,1,0,-2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + \\
& 2x_3y_1y_2y_3) + b_{-1,0,1,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 +
\end{aligned}$$

$$\begin{aligned}
& x_3^2 y_1 y_2 - y_1 y_2 y_3^2) - ib_{-1,0,1,0,-2,1,0,0,0,0}^r (x_3^2 + y_3^2) (2x_1 x_2 x_3 y_3 - x_1 x_3^2 y_2 + x_1 y_2 y_3^2 + \\
& x_2 x_3^2 y_1 - x_2 y_1 y_3^2 + 2x_3 y_1 y_2 y_3) + b_{-1,0,1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2) (x_1 x_2 x_4^2 - x_1 x_2 y_4^2 + \\
& 2x_1 x_4 y_2 y_4 - 2x_2 x_4 y_1 y_4 + x_4^2 y_1 y_2 - y_1 y_2 y_4^2) - ib_{-1,0,1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2) (2x_1 x_2 x_4 y_4 - \\
& x_1 x_4^2 y_2 + x_1 y_2 y_4^2 + x_2 x_4^2 y_1 - x_2 y_1 y_4^2 + 2x_4 y_1 y_2 y_4) + b_{-1,0,1,0,0,0,-2,1,0,0}^r (x_4^2 + \\
& y_4^2) (x_1 x_2 x_4^2 - x_1 x_2 y_4^2 + 2x_1 x_4 y_2 y_4 - 2x_2 x_4 y_1 y_4 + x_4^2 y_1 y_2 - y_1 y_2 y_4^2) - \\
& ib_{-1,0,1,0,0,0,-2,1,0,0}^r (x_4^2 + y_4^2) (2x_1 x_2 x_4 y_4 - x_1 x_4^2 y_2 + x_1 y_2 y_4^2 + x_2 x_4^2 y_1 - x_2 y_1 y_4^2 + \\
& 2x_4 y_1 y_2 y_4) + b_{-1,0,1,0,0,0,0,0,-4,0}^r (x_1 x_2 x_5^4 - 6x_1 x_2 x_5^2 y_5^2 + x_1 x_2 y_5^4 + 4x_1 x_5^3 y_2 y_5 - \\
& 4x_1 x_5 y_2 y_5^3 - 4x_2 x_5^3 y_1 y_5 + 4x_2 x_5 y_1 y_5^3 + x_5^4 y_1 y_2 - 6x_5^2 y_1 y_2 y_5^2 + y_1 y_2 y_5^4) - \\
& ib_{-1,0,1,0,0,0,0,0,-4,0}^r (4x_1 x_2 x_5^3 y_5 - 4x_1 x_2 x_5 y_5^3 - x_1 x_5^4 y_2 + 6x_1 x_5^2 y_2 y_5^2 - x_1 y_2 y_5^4 + \\
& x_2 x_5^4 y_1 - 6x_2 x_5^2 y_1 y_5^2 + x_2 y_1 y_5^4 + 4x_5^3 y_1 y_2 y_5 - 4x_5 y_1 y_2 y_5^3) + b_{-1,0,1,0,0,0,0,0,2,1}^r (x_5^2 + \\
& y_5^2) (x_1 x_2 x_5^2 - x_1 x_2 y_5^2 - 2x_1 x_5 y_2 y_5 + 2x_2 x_5 y_1 y_5 + x_5^2 y_1 y_2 - y_1 y_2 y_5^2) + \\
& ib_{-1,0,1,0,0,0,0,0,2,1}^r (x_5^2 + y_5^2) (2x_1 x_2 x_5 y_5 + x_1 x_5^2 y_2 - x_1 y_2 y_5^2 - x_2 x_5^2 y_1 + x_2 y_1 y_5^2 + \\
& 2x_5 y_1 y_2 y_5) + b_{-1,0,1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2) (x_1 x_2 x_5^2 - x_1 x_2 y_5^2 - 2x_1 x_5 y_2 y_5 + 2x_2 x_5 y_1 y_5 + \\
& x_5^2 y_1 y_2 - y_1 y_2 y_5^2) + ib_{-1,0,1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2) (2x_1 x_2 x_5 y_5 + x_1 x_5^2 y_2 - x_1 y_2 y_5^2 - \\
& x_2 x_5^2 y_1 + x_2 y_1 y_5^2 + 2x_5 y_1 y_2 y_5) + b_{-1,0,1,0,0,0,2,0,-2,0}^r (x_1 x_2 x_4^2 x_5^2 - x_1 x_2 x_4^2 y_5^2 + \\
& 4x_1 x_2 x_4 x_5 y_4 y_5 - x_1 x_2 x_5^2 y_4^2 + x_1 x_2 y_4^2 y_5^2 + 2x_1 x_4^2 x_5 y_2 y_5 - 2x_1 x_4 x_5^2 y_2 y_4 + \\
& 2x_1 x_4 y_2 y_4 y_5^2 - 2x_1 x_5 y_2 y_4^2 y_5 - 2x_2 x_4^2 x_5 y_1 y_5 + 2x_2 x_4 x_5^2 y_1 y_4 - 2x_2 x_4 y_1 y_4 y_5^2 + \\
& 2x_2 x_5 y_1 y_4^2 y_5 + x_4^2 x_5^2 y_1 y_2 - x_4^2 y_1 y_2 y_5^2 + 4x_4 x_5 y_1 y_2 y_4 y_5 - x_5^2 y_1 y_2 y_4^2 + \\
& y_1 y_2 y_4^2 y_5^2) - ib_{-1,0,1,0,0,0,2,0,-2,0}^r (2x_1 x_2 x_4^2 x_5 y_5 - 2x_1 x_2 x_4 x_5^2 y_4 + 2x_1 x_2 x_4 y_4 y_5^2 - \\
& 2x_1 x_2 x_5 y_4^2 y_5 - x_1 x_4^2 x_5^2 y_2 + x_1 x_4^2 y_2 y_5^2 - 4x_1 x_4 x_5 y_2 y_4 y_5 + x_1 x_5^2 y_2 y_4^2 - \\
& x_1 y_2 y_5^2 y_5^2 + x_2 x_5^2 y_5^2 y_1 - x_2 x_4^2 y_1 y_5^2 + 4x_2 x_4 x_5 y_1 y_4 y_5 - x_2 x_5^2 y_1 y_4^2 + \\
& x_2 y_1 y_5^2 y_5^2 + 2x_4^2 x_5 y_1 y_2 y_5 - 2x_4 x_5^2 y_1 y_2 y_4 + 2x_4 y_1 y_2 y_4 y_5^2 - 2x_5 y_1 y_2 y_4^2 y_5) + \\
& b_{-1,0,1,0,0,0,4,0,0,0}^r (x_1 x_2 x_4^4 - 6x_1 x_2 x_4^2 y_4^2 + x_1 x_2 y_4^4 - 4x_1 x_4^3 y_2 y_4 + 4x_1 x_4 y_2 y_4^3 + \\
& 4x_2 x_4^3 y_1 y_4 - 4x_2 x_4 y_1 y_4^3 + x_4^4 y_1 y_2 - 6x_4^2 y_1 y_2 y_4^2 + y_1 y_2 y_4^4) + \\
& ib_{-1,0,1,0,0,0,4,0,0,0}^r (4x_1 x_2 x_4^3 y_4 - 4x_1 x_2 x_4 y_4^3 + x_1 x_4^4 y_2 - 6x_1 x_4^2 y_2 y_4^2 + x_1 y_2 y_4^4 - \\
& x_2 x_4^4 y_1 + 6x_2 x_4^2 y_1 y_4^2 - x_2 y_1 y_4^4 + 4x_4^3 y_1 y_2 y_4 - 4x_4 y_1 y_2 y_4^3) + b_{-1,0,1,0,0,1,-2,0,0,0}^r (x_3^2 + \\
& y_3^2) (x_1 x_2 x_4^2 - x_1 x_2 y_4^2 + 2x_1 x_4 y_2 y_4 - 2x_2 x_4 y_1 y_4 + x_4^2 y_1 y_2 - y_1 y_2 y_4^2) - \\
& ib_{-1,0,1,0,0,1,-2,0,0,0}^r (x_3^2 + y_3^2) (2x_1 x_2 x_4 y_4 - x_1 x_4^2 y_2 + x_1 y_2 y_4^2 + x_2 x_4^2 y_1 - x_2 y_1 y_4^2 + \\
& 2x_4 y_1 y_2 y_4) + b_{-1,0,1,0,0,1,0,0,2,0}^r (x_3^2 + y_3^2) (x_1 x_2 x_5^2 - x_1 x_2 y_5^2 - 2x_1 x_5 y_2 y_5 + 2x_2 x_5 y_1 y_5 + \\
& x_5^2 y_1 y_2 - y_1 y_2 y_5^2) + ib_{-1,0,1,0,0,1,0,0,2,0}^r (x_3^2 + y_3^2) (2x_1 x_2 x_5 y_5 + x_1 x_5^2 y_2 - x_1 y_2 y_5^2 - \\
& x_2 x_5^2 y_1 + x_2 y_1 y_5^2 + 2x_5 y_1 y_2 y_5) + b_{-1,0,1,0,2,0,0,0,-2,0}^r (x_1 x_2 x_3^2 x_5^2 - x_1 x_2 x_3^2 y_5^2 + \\
& 4x_1 x_2 x_3 x_5 y_3 y_5 - x_1 x_2 x_5^2 y_3^2 + x_1 x_2 y_3^2 y_5^2 + 2x_1 x_3^2 x_5 y_2 y_5 - 2x_1 x_3 x_5^2 y_2 y_3 + \\
& 2x_1 x_3 y_2 y_3 y_5^2 - 2x_1 x_5 y_2 y_3^2 y_5 - 2x_2 x_3^2 x_5 y_1 y_5 + 2x_2 x_3 x_5^2 y_1 y_3 - 2x_2 x_3 y_1 y_3 y_5^2 + \\
& 2x_2 x_5 y_1 y_3^2 y_5 + x_3^2 x_5^2 y_1 y_2 - x_3^2 y_1 y_2 y_5^2 + 4x_3 x_5 y_1 y_2 y_3 y_5 - x_5^2 y_1 y_2 y_3^2 + \\
& y_1 y_2 y_3^2 y_5^2) - ib_{-1,0,1,0,2,0,0,0,-2,0}^r (2x_1 x_2 x_3^2 x_5 y_5 - 2x_1 x_2 x_3 x_5^2 y_3 + 2x_1 x_2 x_3 y_3 y_5^2 - \\
& 2x_1 x_2 x_5 y_3^2 y_5 - x_1 x_3^2 x_5^2 y_2 + x_1 x_3^2 y_2 y_5^2 - 4x_1 x_3 x_5 y_2 y_3 y_5 + x_1 x_5^2 y_2 y_3^2 - \\
& x_1 y_2 y_3^2 y_5^2 + x_2 x_3^2 x_5^2 y_1 - x_2 x_3^2 y_1 y_5^2 + 4x_2 x_3 x_5 y_1 y_3 y_5 - x_2 x_5^2 y_1 y_3^2 + \\
& x_2 y_1 y_3^2 y_5^2 + 2x_3^2 x_5 y_1 y_2 y_5 - 2x_3 x_5^2 y_1 y_2 y_3 + 2x_3 y_1 y_2 y_3 y_5^2 - 2x_5 y_1 y_2 y_3^2 y_5) + \\
& b_{-1,0,1,0,2,0,2,0,0,0}^r (x_1 x_2 x_3^2 x_4^2 - x_1 x_2 x_3^2 y_4^2 - 4x_1 x_2 x_3 x_4 y_3 y_4 - x_1 x_2 x_4^2 y_3^2 + \\
& x_1 x_2 y_3^2 y_4^2 - 2x_1 x_3^2 x_4 y_2 y_4 - 2x_1 x_3 x_4^2 y_2 y_3 + 2x_1 x_3 y_2 y_3 y_4^2 + 2x_1 x_4 y_2 y_3^2 y_4 + \\
& 2x_2 x_3^2 x_4 y_1 y_4 + 2x_2 x_3 x_4^2 y_1 y_3 - 2x_2 x_3 y_1 y_3 y_4^2 - 2x_2 x_4 y_1 y_3^2 y_4 + x_3^2 x_4 y_1 y_2 - \\
& x_3^2 y_1 y_2 y_4^2 - 4x_3 x_4 y_1 y_2 y_3 y_4 - x_4^2 y_1 y_2 y_3^2 + y_1 y_2 y_3^2 y_4^2) +
\end{aligned}$$



$$\begin{aligned}
& x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + \\
& x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{-1,0,3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2^3 - \\
& 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) + ib_{-1,0,3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + \\
& 3x_2y_1y_2^2) + b_{-1,0,3,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) + \\
& ib_{-1,0,3,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + b_{-1,0,3,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) + ib_{-1,0,3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(3x_1x_2^2y_2 - \\
& x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + b_{-1,0,3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - \\
& y_1y_2^3) + ib_{-1,0,3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + \\
& b_{-1,1,-1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + \\
& y_1y_2y_5^2) - ib_{-1,1,-1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 - 2x_5y_1y_2y_5) + b_{-1,1,-1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + \\
& 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) + ib_{-1,1,-1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + \\
& x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,1,-1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - \\
& x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) + ib_{-1,1,-1,0,2,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + \\
& b_{-1,1,-3,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) - ib_{-1,1,-3,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + b_{-1,1,0,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + \\
& x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{-1,1,0,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,1,0,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - \\
& ib_{-1,1,0,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + b_{-1,1,1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - ib_{-1,1,1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_3y_3 - \\
& x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{-1,1,1,0,0,0,-2,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - \\
& ib_{-1,1,1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) + b_{-1,1,1,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) + ib_{-1,1,1,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 - \\
& x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,1,3,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2^3 - 3x_1x_2y_2^2 + \\
& 3x_2^2y_1y_2 - y_1y_2^3) + ib_{-1,1,3,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + \\
& b_{-2,0,-1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 - \\
& x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 - x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 + \\
& 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 - 2x_1x_3x_4x_5y_1y_2 - \\
& 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - x_2x_3y_1^2y_4y_5 + \\
& x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + x_4x_5y_1^2y_2y_3 + \\
& y_1^2y_2y_3y_4y_5) - ib_{-2,0,-1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + x_1^2x_2x_4x_5y_3 + \\
& x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 + x_1^2x_5y_2y_3y_4 + \\
& 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 +
\end{aligned}$$



$$\begin{aligned}
& x_4 y_1^2 y_2 y_3 y_5 - x_5 y_1^2 y_2 y_3 y_4) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r (x_1^2 x_2 x_3 x_4 x_5 - x_1^2 x_2 x_3 y_4 y_5 + \\
& x_1^2 x_2 x_4 y_3 y_5 + x_1^2 x_2 x_5 y_3 y_4 - x_1^2 x_3 x_4 y_2 y_5 - x_1^2 x_3 x_5 y_2 y_4 + x_1^2 x_4 x_5 y_2 y_3 - \\
& x_1^2 y_2 y_3 y_4 y_5 - 2x_1 x_2 x_3 x_4 y_1 y_5 - 2x_1 x_2 x_3 x_5 y_1 y_4 + 2x_1 x_2 x_4 x_5 y_1 y_3 - 2x_1 x_2 y_1 y_3 y_4 y_5 - \\
& 2x_1 x_3 x_4 x_5 y_1 y_2 + 2x_1 x_3 y_1 y_2 y_4 y_5 - 2x_1 x_4 y_1 y_2 y_3 y_5 - 2x_1 x_5 y_1 y_2 y_3 y_4 - x_2 x_3 x_4 x_5 y_1^2 + \\
& x_2 x_3 y_1^2 y_4 y_5 - x_2 x_4 y_1^2 y_3 y_5 - x_2 x_5 y_1^2 y_3 y_4 + x_3 x_4 y_1^2 y_2 y_5 + x_3 x_5 y_1^2 y_2 y_4 - \\
& x_4 x_5 y_1^2 y_2 y_3 + y_1^2 y_2 y_3 y_4 y_5) - i b_{-2,0,-1,0,1,0,-1,0,-1,0}^r (x_1^2 x_2 x_3 x_4 y_5 + x_1^2 x_2 x_3 x_5 y_4 - \\
& x_1^2 x_2 x_4 x_5 y_3 + x_1^2 x_2 y_3 y_4 y_5 + x_1^2 x_3 x_4 x_5 y_2 - x_1^2 x_3 y_2 y_4 y_5 + x_1^2 x_4 y_2 y_3 y_5 + \\
& x_1^2 x_5 y_2 y_3 y_4 + 2x_1 x_2 x_3 x_4 x_5 y_1 - 2x_1 x_2 x_3 y_1 y_4 y_5 + 2x_1 x_2 x_4 y_1 y_3 y_5 + 2x_1 x_2 x_5 y_1 y_3 y_4 - \\
& 2x_1 x_3 x_4 y_1 y_2 y_5 - 2x_1 x_3 x_5 y_1 y_2 y_4 + 2x_1 x_4 x_5 y_1 y_2 y_3 - 2x_1 y_1 y_2 y_3 y_4 y_5 - x_2 x_3 x_4 y_1^2 y_5 - \\
& x_2 x_3 x_5 y_1^2 y_4 + x_2 x_4 x_5 y_1^2 y_3 - x_2 y_1^2 y_3 y_4 y_5 - x_3 x_4 x_5 y_1^2 y_2 + x_3 y_1^2 y_2 y_4 y_5 - \\
& x_4 y_1^2 y_2 y_3 y_5 - x_5 y_1^2 y_2 y_3 y_4) + b_{-2,0,-1,0,1,0,1,0,1,0}^r (x_1^2 x_2 x_3 x_4 x_5 - x_1^2 x_2 x_3 y_4 y_5 - \\
& x_1^2 x_2 x_4 y_3 y_5 - x_1^2 x_2 x_5 y_3 y_4 + x_1^2 x_3 x_4 y_2 y_5 + x_1^2 x_3 x_5 y_2 y_4 + x_1^2 x_4 x_5 y_2 y_3 - \\
& x_1^2 y_2 y_3 y_4 y_5 + 2x_1 x_2 x_3 x_4 y_1 y_5 + 2x_1 x_2 x_3 x_5 y_1 y_4 + 2x_1 x_2 x_4 x_5 y_1 y_3 - 2x_1 x_2 y_1 y_3 y_4 y_5 - \\
& 2x_1 x_3 x_4 x_5 y_1 y_2 + 2x_1 x_3 y_1 y_2 y_4 y_5 + 2x_1 x_4 y_1 y_2 y_3 y_5 + 2x_1 x_5 y_1 y_2 y_3 y_4 - x_2 x_3 x_4 x_5 y_1^2 + \\
& x_2 x_3 y_1^2 y_4 y_5 + x_2 x_4 y_1^2 y_3 y_5 + x_2 x_5 y_1^2 y_3 y_4 - x_3 x_4 y_1^2 y_2 y_5 - x_3 x_5 y_1^2 y_2 y_4 - \\
& x_4 x_5 y_1^2 y_2 y_3 + y_1^2 y_2 y_3 y_4 y_5) + i b_{-2,0,-1,0,1,0,1,0,1,0}^r (x_1^2 x_2 x_3 x_4 y_5 + x_1^2 x_2 x_3 x_5 y_4 + \\
& x_1^2 x_2 x_4 x_5 y_3 - x_1^2 x_2 y_3 y_4 y_5 - x_1^2 x_3 x_4 x_5 y_2 + x_1^2 x_3 y_2 y_4 y_5 + x_1^2 x_4 y_2 y_3 y_5 + \\
& x_1^2 x_5 y_2 y_3 y_4 - 2x_1 x_2 x_3 x_4 x_5 y_1 + 2x_1 x_2 x_3 y_1 y_4 y_5 + 2x_1 x_2 x_4 y_1 y_3 y_5 + 2x_1 x_2 x_5 y_1 y_3 y_4 - \\
& 2x_1 x_3 x_4 y_1 y_2 y_5 - 2x_1 x_3 x_5 y_1 y_2 y_4 - 2x_1 x_4 x_5 y_1 y_2 y_3 + 2x_1 y_1 y_2 y_3 y_4 y_5 - x_2 x_3 x_4 y_1^2 y_5 - \\
& x_2 x_3 x_5 y_1^2 y_4 - x_2 x_4 x_5 y_1^2 y_3 + x_2 y_1^2 y_3 y_4 y_5 + x_3 x_4 x_5 y_1^2 y_2 - x_3 y_1^2 y_2 y_4 y_5 - \\
& x_4 y_1^2 y_2 y_3 y_5 - x_5 y_1^2 y_2 y_3 y_4) - 2i b_{-2,0,-2,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_2 - y_1 y_2)(x_1 y_2 + x_2 y_1) + \\
& b_{-2,0,-2,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_2 - x_1 y_2 - x_2 y_1 - y_1 y_2)(x_1 x_2 + x_1 y_2 + x_2 y_1 - y_1 y_2) - \\
& 2i b_{-2,0,-2,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_2 - y_1 y_2)(x_1 y_2 + x_2 y_1) + b_{-2,0,-2,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_2 - x_1 y_2 - \\
& x_2 y_1 - y_1 y_2)(x_1 x_2 + x_1 y_2 + x_2 y_1 - y_1 y_2) - 2i b_{-2,0,-2,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_2 - y_1 y_2)(x_1 y_2 + \\
& x_2 y_1) + b_{-2,0,-2,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_2 - x_1 y_2 - x_2 y_1 - y_1 y_2)(x_1 x_2 + x_1 y_2 + x_2 y_1 - y_1 y_2) - \\
& 2i b_{-2,0,-2,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1 x_2 - y_1 y_2)(x_1 y_2 + x_2 y_1) + b_{-2,0,-2,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1 x_2 - x_1 y_2 - \\
& x_2 y_1 - y_1 y_2)(x_1 x_2 + x_1 y_2 + x_2 y_1 - y_1 y_2) - 2i b_{-2,0,0,0,-2,0,-2,0,0,0}^r (x_1 x_3 x_4 - x_1 y_3 y_4 - x_3 y_1 y_4 - \\
& x_4 y_1 y_3)(x_1 x_3 y_4 + x_1 x_4 y_3 + x_3 x_4 y_1 - y_1 y_3 y_4) + b_{-2,0,0,0,-2,0,-2,0,0,0}^r (x_1 x_3 x_4 - x_1 x_3 y_4 - x_1 x_4 y_3 - \\
& x_1 y_3 y_4 - x_3 x_4 y_1 - x_3 y_1 y_4 - x_4 y_1 y_3 + y_1 y_3 y_4)(x_1 x_3 x_4 + x_1 x_3 y_4 + x_1 x_4 y_3 - x_1 y_3 y_4 + \\
& x_3 x_4 y_1 - x_3 y_1 y_4 - x_4 y_1 y_3 - y_1 y_3 y_4) + 2i b_{-2,0,0,0,-2,0,0,0,2,0}^r (x_1 x_3 x_5 + x_1 y_3 y_5 + x_3 y_1 y_5 - \\
& x_5 y_1 y_3)(x_1 x_3 y_5 - x_1 x_5 y_3 - x_3 x_5 y_1 - y_1 y_3 y_5) + b_{-2,0,0,0,-2,0,0,0,2,0}^r (x_1 x_3 x_5 - x_1 x_3 y_5 + x_1 x_5 y_3 + \\
& x_1 y_3 y_5 + x_3 x_5 y_1 + x_3 y_1 y_5 - x_5 y_1 y_3 + y_1 y_3 y_5)(x_1 x_3 x_5 + x_1 x_3 y_5 - x_1 x_5 y_3 + x_1 y_3 y_5 - \\
& x_3 x_5 y_1 + x_3 y_1 y_5 - x_5 y_1 y_3 - y_1 y_3 y_5) - 2i b_{-2,0,0,0,-4,0,0,0,0,0}^r (x_1 x_3^2 - x_1 y_3^2 - 2x_3 y_1 y_3)(2x_1 x_3 y_3 + \\
& x_3^2 y_1 - y_1 y_3^2) + b_{-2,0,0,0,-4,0,0,0,0,0}^r (x_1 x_3^2 - 2x_1 x_3 y_3 - x_1 y_3^2 - x_3^2 y_1 - 2x_3 y_1 y_3 + \\
& y_1 y_3^2)(x_1 x_3^2 + 2x_1 x_3 y_3 - x_1 y_3^2 + x_3^2 y_1 - 2x_3 y_1 y_3 - y_1 y_3^2) + 2i b_{-2,0,0,0,0,0,-2,0,2,0}^r (x_1 x_4 x_5 + \\
& x_1 y_4 y_5 + x_4 y_1 y_5 - x_5 y_1 y_4)(x_1 x_4 y_5 - x_1 x_5 y_4 - x_4 x_5 y_1 - y_1 y_4 y_5) + b_{-2,0,0,0,0,0,-2,0,2,0}^r (x_1 x_4 x_5 - \\
& x_1 x_4 y_5 + x_1 x_5 y_4 + x_1 y_4 y_5 + x_4 x_5 y_1 + x_4 y_1 y_5 - x_5 y_1 y_4 + y_1 y_4 y_5)(x_1 x_4 x_5 + x_1 x_4 y_5 - \\
& x_1 x_5 y_4 + x_1 y_4 y_5 - x_4 x_5 y_1 + x_4 y_1 y_5 - x_5 y_1 y_4 - y_1 y_4 y_5) - 2i b_{-2,0,0,0,0,0,-4,0,0,0}^r (x_1 x_4^2 - x_1 y_4^2 - \\
& 2x_4 y_1 y_4)(2x_1 x_4 y_4 + x_4^2 y_1 - y_1 y_4^2) + b_{-2,0,0,0,0,0,-4,0,0,0}^r (x_1 x_4^2 - 2x_1 x_4 y_4 - x_1 y_4^2 - x_4^2 y_1 - \\
& 2x_4 y_1 y_4 + y_1 y_4^2)(x_1 x_4^2 + 2x_1 x_4 y_4 - x_1 y_4^2 + x_4^2 y_1 - 2x_4 y_1 y_4 - y_1 y_4^2) - \\
& 2i b_{-2,0,0,0,0,0,0,0,-2,1}^r (x_5^2 + y_5^2)(x_1 x_5 - y_1 y_5)(x_1 y_5 + x_5 y_1) + b_{-2,0,0,0,0,0,0,0,-2,1}^r (x_5^2 + y_5^2)(x_1 x_5 - x_1 y_5 - \\
& x_5 y_1 - y_1 y_5)(x_1 x_5 + x_1 y_5 + x_5 y_1 - y_1 y_5) + 2i b_{-2,0,0,0,0,0,0,0,4,0}^r (x_1 x_5^2 - x_1 y_5^2 + 2x_5 y_1 y_5)(2x_1 x_5 y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_5^2 y_1 + y_1 y_5^2) + b_{-2,0,0,0,0,0,0,0,4,0}^r (x_1 x_5^2 - 2x_1 x_5 y_5 - x_1 y_5^2 + x_5^2 y_1 + 2x_5 y_1 y_5 - \\
& y_1 y_5^2)(x_1 x_5^2 + 2x_1 x_5 y_5 - x_1 y_5^2 - x_5^2 y_1 + 2x_5 y_1 y_5 + y_1 y_5^2) - 2ib_{-2,0,0,0,0,0,0,1,-2,0}^r (x_4^2 + \\
& y_4^2)(x_1 x_5 - y_1 y_5)(x_1 y_5 + x_5 y_1) + b_{-2,0,0,0,0,0,0,1,-2,0}^r (x_4^2 + y_4^2)(x_1 x_5 - x_1 y_5 - x_5 y_1 - y_1 y_5)(x_1 x_5 + \\
& x_1 y_5 + x_5 y_1 - y_1 y_5) + 2ib_{-2,0,0,0,0,0,2,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_4 + y_1 y_4)(x_1 y_4 - x_4 y_1) + \\
& b_{-2,0,0,0,0,0,2,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_4 - x_1 y_4 + x_4 y_1 + y_1 y_4)(x_1 x_4 + x_1 y_4 - x_4 y_1 + y_1 y_4) + \\
& 2ib_{-2,0,0,0,0,0,2,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_4 + y_1 y_4)(x_1 y_4 - x_4 y_1) + b_{-2,0,0,0,0,0,2,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_4 - x_1 y_4 + \\
& x_4 y_1 + y_1 y_4)(x_1 x_4 + x_1 y_4 - x_4 y_1 + y_1 y_4) - 2ib_{-2,0,0,0,0,1,0,0,-2,0}^r (x_3^2 + y_3^2)(x_1 x_5 - y_1 y_5)(x_1 y_5 + \\
& x_5 y_1) + b_{-2,0,0,0,0,1,0,0,-2,0}^r (x_3^2 + y_3^2)(x_1 x_5 - x_1 y_5 - x_5 y_1 - y_1 y_5)(x_1 x_5 + x_1 y_5 + x_5 y_1 - y_1 y_5) + \\
& 2ib_{-2,0,0,0,0,1,2,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_4 + y_1 y_4)(x_1 y_4 - x_4 y_1) + b_{-2,0,0,0,0,1,2,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_4 - x_1 y_4 + \\
& x_4 y_1 + y_1 y_4)(x_1 x_4 + x_1 y_4 - x_4 y_1 + y_1 y_4) + 2ib_{-2,0,0,0,2,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_3 + y_1 y_3)(x_1 y_3 - \\
& x_3 y_1) + b_{-2,0,0,0,2,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_3 - x_1 y_3 + x_3 y_1 + y_1 y_3)(x_1 x_3 + x_1 y_3 - x_3 y_1 + y_1 y_3) + \\
& 2ib_{-2,0,0,0,2,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_3 + y_1 y_3)(x_1 y_3 - x_3 y_1) + b_{-2,0,0,0,2,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_3 - x_1 y_3 + \\
& x_3 y_1 + y_1 y_3)(x_1 x_3 + x_1 y_3 - x_3 y_1 + y_1 y_3) + 2ib_{-2,0,0,0,2,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_3 + y_1 y_3)(x_1 y_3 - \\
& x_3 y_1) + b_{-2,0,0,0,2,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_3 - x_1 y_3 + x_3 y_1 + y_1 y_3)(x_1 x_3 + x_1 y_3 - x_3 y_1 + y_1 y_3) - \\
& 2ib_{-2,0,0,1,0,0,0,0,-2,0}^r (x_2^2 + y_2^2)(x_1 x_5 - y_1 y_5)(x_1 y_5 + x_5 y_1) + b_{-2,0,0,1,0,0,0,0,-2,0}^r (x_2^2 + y_2^2)(x_1 x_5 - x_1 y_5 - \\
& x_5 y_1 - y_1 y_5)(x_1 x_5 + x_1 y_5 + x_5 y_1 - y_1 y_5) + 2ib_{-2,0,0,1,0,0,2,0,0,0}^r (x_2^2 + y_2^2)(x_1 x_4 + y_1 y_4)(x_1 y_4 - \\
& x_4 y_1) + b_{-2,0,0,1,0,0,2,0,0,0}^r (x_2^2 + y_2^2)(x_1 x_4 - x_1 y_4 + x_4 y_1 + y_1 y_4)(x_1 x_4 + x_1 y_4 - x_4 y_1 + y_1 y_4) + \\
& 2ib_{-2,0,0,1,2,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1 x_3 + y_1 y_3)(x_1 y_3 - x_3 y_1) + b_{-2,0,0,1,2,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1 x_3 - x_1 y_3 + \\
& x_3 y_1 + y_1 y_3)(x_1 x_3 + x_1 y_3 - x_3 y_1 + y_1 y_3) + b_{-2,0,1,0,-1,0,-1,0,1,0}^r (x_1^2 x_2 x_3 x_4 x_5 + x_1^2 x_2 x_3 y_4 y_5 + \\
& x_1^2 x_2 x_4 y_3 y_5 - x_1^2 x_2 x_5 y_3 y_4 - x_1^2 x_3 x_4 y_2 y_5 + x_1^2 x_3 x_5 y_2 y_4 + x_1^2 x_4 x_5 y_2 y_3 + \\
& x_1^2 y_2 y_3 y_4 y_5 + 2x_1 x_2 x_3 x_4 y_1 y_5 - 2x_1 x_2 x_3 x_5 y_1 y_4 - 2x_1 x_2 x_4 x_5 y_1 y_3 - 2x_1 x_2 y_1 y_3 y_4 y_5 + \\
& 2x_1 x_3 x_4 x_5 y_1 y_2 + 2x_1 x_3 y_1 y_2 y_4 y_5 + 2x_1 x_4 y_1 y_2 y_3 y_5 - 2x_1 x_5 y_1 y_2 y_3 y_4 - x_2 x_3 x_4 x_5 y_1^2 - \\
& x_2 x_3 y_1^2 y_4 y_5 - x_2 x_4 y_1^2 y_3 y_5 + x_2 x_5 y_1^2 y_3 y_4 + x_3 x_4 y_1^2 y_2 y_5 - x_3 x_5 y_1^2 y_2 y_4 - \\
& x_4 x_5 y_1^2 y_2 y_3 - y_1^2 y_2 y_3 y_4 y_5) + ib_{-2,0,1,0,-1,0,-1,0,1,0}^r (x_1^2 x_2 x_3 x_4 y_5 - x_1^2 x_2 x_3 x_5 y_4 - \\
& x_1^2 x_2 x_4 x_5 y_3 - x_1^2 x_2 y_3 y_4 y_5 + x_1^2 x_3 x_4 x_5 y_2 + x_1^2 x_3 y_2 y_4 y_5 + x_1^2 x_4 y_2 y_3 y_5 - \\
& x_1^2 x_5 y_2 y_3 y_4 - 2x_1 x_2 x_3 x_4 x_5 y_1 - 2x_1 x_2 x_3 y_1 y_4 y_5 - 2x_1 x_2 x_4 y_1 y_3 y_5 + 2x_1 x_2 x_5 y_1 y_3 y_4 + \\
& 2x_1 x_3 x_4 y_1 y_2 y_5 - 2x_1 x_3 x_5 y_1 y_2 y_4 - 2x_1 x_4 x_5 y_1 y_2 y_3 - 2x_1 y_1 y_2 y_3 y_4 y_5 - x_2 x_3 x_4 y_1^2 y_5 + \\
& x_2 x_3 x_5 y_1^2 y_4 + x_2 x_4 x_5 y_1^2 y_3 + x_2 y_1^2 y_3 y_4 y_5 - x_3 x_4 x_5 y_1^2 y_2 - x_3 y_1^2 y_2 y_4 y_5 - \\
& x_4 y_1^2 y_2 y_3 y_5 + x_5 y_1^2 y_2 y_3 y_4) + b_{-2,0,1,0,1,0,1,0,-1,0}^r (x_1^2 x_2 x_3 x_4 x_5 + x_1^2 x_2 x_3 y_4 y_5 + \\
& x_1^2 x_2 x_4 y_3 y_5 - x_1^2 x_2 x_5 y_3 y_4 + x_1^2 x_3 x_4 y_2 y_5 - x_1^2 x_3 x_5 y_2 y_4 - x_1^2 x_4 x_5 y_2 y_3 - \\
& x_1^2 y_2 y_3 y_4 y_5 - 2x_1 x_2 x_3 x_4 y_1 y_5 + 2x_1 x_2 x_3 x_5 y_1 y_4 + 2x_1 x_2 x_4 x_5 y_1 y_3 + 2x_1 x_2 y_1 y_3 y_4 y_5 + \\
& 2x_1 x_3 x_4 x_5 y_1 y_2 + 2x_1 x_3 y_1 y_2 y_4 y_5 + 2x_1 x_4 y_1 y_2 y_3 y_5 - 2x_1 x_5 y_1 y_2 y_3 y_4 - x_2 x_3 x_4 x_5 y_1^2 - \\
& x_2 x_3 y_1^2 y_4 y_5 - x_2 x_4 y_1^2 y_3 y_5 + x_2 x_5 y_1^2 y_3 y_4 - x_3 x_4 y_1^2 y_2 y_5 + x_3 x_5 y_1^2 y_2 y_4 + \\
& x_4 x_5 y_1^2 y_2 y_3 + y_1^2 y_2 y_3 y_4 y_5) - ib_{-2,0,1,0,1,0,1,0,-1,0}^r (x_1^2 x_2 x_3 x_4 y_5 - x_1^2 x_2 x_3 x_5 y_4 - \\
& x_1^2 x_2 x_4 x_5 y_3 - x_1^2 x_2 y_3 y_4 y_5 - x_1^2 x_3 x_4 x_5 y_2 - x_1^2 x_3 y_2 y_4 y_5 - x_1^2 x_4 y_2 y_3 y_5 + \\
& x_1^2 x_5 y_2 y_3 y_4 + 2x_1 x_2 x_3 x_4 x_5 y_1 + 2x_1 x_2 x_3 y_1 y_4 y_5 + 2x_1 x_2 x_4 y_1 y_3 y_5 - 2x_1 x_2 x_5 y_1 y_3 y_4 + \\
& 2x_1 x_3 x_4 y_1 y_2 y_5 - 2x_1 x_3 x_5 y_1 y_2 y_4 - 2x_1 x_4 x_5 y_1 y_2 y_3 - 2x_1 y_1 y_2 y_3 y_4 y_5 - x_2 x_3 x_4 y_1^2 y_5 + \\
& x_2 x_3 x_5 y_1^2 y_4 + x_2 x_4 x_5 y_1^2 y_3 + x_2 y_1^2 y_3 y_4 y_5 + x_3 x_4 x_5 y_1^2 y_2 + x_3 y_1^2 y_2 y_4 y_5 + \\
& x_4 y_1^2 y_2 y_3 y_5 - x_5 y_1^2 y_2 y_3 y_4) - 2ib_{-2,0,2,0,-2,0,0,0,0,0}^r (x_1 x_2 x_3 + x_1 y_2 y_3 - x_2 y_1 y_3 + \\
& x_3 y_1 y_2)(x_1 x_2 y_3 - x_1 x_3 y_2 + x_2 x_3 y_1 + y_1 y_2 y_3) + b_{-2,0,2,0,-2,0,0,0,0,0}^r (x_1 x_2 x_3 - x_1 x_2 y_3 + x_1 x_3 y_2 + \\
& x_1 y_2 y_3 - x_2 x_3 y_1 - x_2 y_1 y_3 + x_3 y_1 y_2 - y_1 y_2 y_3)(x_1 x_2 x_3 + x_1 x_2 y_3 - x_1 x_3 y_2 + x_1 y_2 y_3 + \\
& x_2 x_3 y_1 - x_2 y_1 y_3 + x_3 y_1 y_2 + y_1 y_2 y_3) - 2ib_{-2,0,2,0,0,0,-2,0,0,0}^r (x_1 x_2 x_4 + x_1 y_2 y_4 - x_2 y_1 y_4 +
\end{aligned}$$

$$\begin{aligned}
& x_4y_1y_2)(x_1x_2y_4 - x_1x_4y_2 + x_2x_4y_1 + y_1y_2y_4) + b_{-2,0,2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 - x_1x_2y_4 + x_1x_4y_2 + \\
& x_1y_2y_4 - x_2x_4y_1 - x_2y_1y_4 + x_4y_1y_2 - y_1y_2y_4)(x_1x_2x_4 + x_1x_2y_4 - x_1x_4y_2 + x_1y_2y_4 + \\
& x_2x_4y_1 - x_2y_1y_4 + x_4y_1y_2 + y_1y_2y_4) + 2ib_{-2,0,2,0,0,0,0,2,0}^r(x_1x_2x_5 - x_1y_2y_5 + x_2y_1y_5 + \\
& x_5y_1y_2)(x_1x_2y_5 + x_1x_5y_2 - x_2x_5y_1 + y_1y_2y_5) + b_{-2,0,2,0,0,0,0,2,0}^r(x_1x_2x_5 - x_1x_2y_5 - x_1x_5y_2 - \\
& x_1y_2y_5 + x_2x_5y_1 + x_2y_1y_5 + x_5y_1y_2 - y_1y_2y_5)(x_1x_2x_5 + x_1x_2y_5 + x_1x_5y_2 - x_1y_2y_5 - \\
& x_2x_5y_1 + x_2y_1y_5 + x_5y_1y_2 + y_1y_2y_5) + 2ib_{-2,0,4,0,0,0,0,0,0}^r(x_1x_2^2 - x_1y_2^2 + 2x_2y_1y_2)(2x_1x_2y_2 - \\
& x_2^2y_1 + y_1y_2^2) + b_{-2,0,4,0,0,0,0,0,0}^r(x_1x_2^2 - 2x_1x_2y_2 - x_1y_2^2 + x_2^2y_1 + 2x_2y_1y_2 - \\
& y_1y_2^2)(x_1x_2^2 + 2x_1x_2y_2 - x_1y_2^2 - x_2^2y_1 + 2x_2y_1y_2 + y_1y_2^2) - 2ib_{-2,1,-2,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + b_{-2,1,-2,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + \\
& x_1y_2 + x_2y_1 - y_1y_2) - 2ib_{-2,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) + \\
& b_{-2,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + x_1y_5 + x_5y_1 - y_1y_5) + \\
& 2ib_{-2,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) + b_{-2,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_4 - x_1y_4 + \\
& x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + y_1y_4) + 2ib_{-2,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_3 + y_1y_3)(x_1y_3 - \\
& x_3y_1) + b_{-2,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) - ib_{-3,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1^3y_2 + 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - x_2y_1^3) + b_{-3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1^3x_2 - \\
& 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) - ib_{-3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1^3y_2 + 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - \\
& x_2y_1^3) + b_{-3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) - \\
& ib_{-3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1^3y_2 + 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - x_2y_1^3) + b_{-3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) - ib_{-3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^3y_2 + \\
& 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - x_2y_1^3) + b_{-3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4x_5 + x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 + \\
& x_1^3x_5y_3y_4 - 3x_1^2x_3x_4y_1y_5 + 3x_1^2x_3x_5y_1y_4 - 3x_1^2x_4x_5y_1y_3 - 3x_1^2y_1y_3y_4y_5 - \\
& 3x_1x_3x_4x_5y_1^2 - 3x_1x_3y_1^2y_4y_5 + 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 + x_3x_4y_1^3y_5 - \\
& x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 + y_1^3y_3y_4y_5) - ib_{-3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4y_5 - x_1^3x_3x_5y_4 + \\
& x_1^3x_4x_5y_3 + x_1^3y_3y_4y_5 + 3x_1^2x_3x_4x_5y_1 + 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 + \\
& 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4x_5y_1^2y_5 + 3x_1x_3x_5y_1^2y_4 - 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 - \\
& x_3x_4x_5y_1^3 - x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 - x_5y_1^3y_3y_4) + b_{-3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4x_5 - \\
& x_1^3x_3y_4y_5 + x_1^3x_4y_3y_5 + x_1^3x_5y_3y_4 - 3x_1^2x_3x_4y_1y_5 - 3x_1^2x_3x_5y_1y_4 + \\
& 3x_1^2x_4x_5y_1y_3 - 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 - 3x_1x_4y_1^2y_3y_5 - \\
& 3x_1x_5y_1^2y_3y_4 + x_3x_4y_1^3y_5 + x_3x_5y_1^3y_4 - x_4x_5y_1^3y_3 + y_1^3y_3y_4y_5) - \\
& ib_{-3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 - x_1^3x_4x_5y_3 + x_1^3y_3y_4y_5 + 3x_1^2x_3x_4x_5y_1 - \\
& 3x_1^2x_3y_1y_4y_5 + 3x_1^2x_4y_1y_3y_5 + 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 + \\
& 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 - x_3x_4x_5y_1^3 + x_3y_1^3y_4y_5 - x_4y_1^3y_3y_5 - x_5y_1^3y_3y_4) + \\
& b_{-3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 - x_1^3x_5y_3y_4 + 3x_1^2x_3x_4y_1y_5 + \\
& 3x_1^2x_3x_5y_1y_4 + 3x_1^2x_4x_5y_1y_3 - 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 + \\
& 3x_1x_4y_1^2y_3y_5 + 3x_1x_5y_1^2y_3y_4 - x_3x_4y_1^3y_5 - x_3x_5y_1^3y_4 - x_4x_5y_1^3y_3 + y_1^3y_3y_4y_5) + \\
& ib_{-3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 + x_1^3x_4x_5y_3 - x_1^3y_3y_4y_5 - 3x_1^2x_3x_4x_5y_1 + \\
& 3x_1^2x_3y_1y_4y_5 + 3x_1^2x_4y_1y_3y_5 + 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 - \\
& 3x_1x_4x_5y_1^2y_3 + 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 - x_3y_1^3y_4y_5 - x_4y_1^3y_3y_5 - x_5y_1^3y_3y_4) + \\
& b_{-3,0,1,0,0,0,0,0,-2,0}^r(x_1^3x_2x_5^2 - x_1^3x_2y_5^2 + 2x_1^3x_5y_2y_5 - 6x_1^2x_2x_5y_1y_5 + 3x_1^2x_5^2y_1y_2 - \\
& 3x_1^2y_1y_2y_5^2 - 3x_1x_2x_5^2y_1^2 + 3x_1x_2y_1^2y_5^2 - 6x_1x_5y_1^2y_2y_5 + 2x_2x_5y_1^3y_5 - \\
& x_5^2y_1^3y_2 + y_1^3y_2y_5^2) - ib_{-3,0,1,0,0,0,0,0,-2,0}^r(2x_1^3x_2x_5y_5 - x_1^3x_5^2y_2 + x_1^3y_2y_5^2 +
\end{aligned}$$

$$\begin{aligned}
& 3x_1^2x_2x_5^2y_1 - 3x_1^2x_2y_1y_5^2 + 6x_1^2x_5y_1y_2y_5 - 6x_1x_2x_5y_1^2y_5 + 3x_1x_5^2y_1^2y_2 - \\
& 3x_1y_1^2y_2y_5^2 - x_2x_5^2y_1^2 + x_2y_1^3y_5^2 - 2x_5y_1^3y_2y_5 + b_{-3,0,1,0,0,0,2,0,0,0}^r(x_1^3x_2x_4^2 - \\
& x_1^3x_2y_4^2 - 2x_1^3x_4y_2y_4 + 6x_1^2x_2x_4y_1y_4 + 3x_1^2x_4^2y_1y_2 - 3x_1^2y_1y_2y_4^2 - \\
& 3x_1x_2x_4^2y_1^2 + 3x_1x_2y_1^2y_4^2 + 6x_1x_4y_1^2y_2y_4 - 2x_2x_4y_1^3y_4 - x_4^2y_1^3y_2 + y_1^3y_2y_4^2) + \\
& ib_{-3,0,1,0,0,0,2,0,0,0}^r(2x_1^3x_2x_4y_4 + x_1^3x_4^2y_2 - x_1^3y_2y_4^2 - 3x_1^2x_2x_4^2y_1 + 3x_1^2x_2y_1y_4^2 + \\
& 6x_1^2x_4y_1y_2y_4 - 6x_1x_2x_4y_1^2y_4 - 3x_1x_4^2y_1^2y_2 + 3x_1y_1^2y_2y_4^2 + x_2x_4^2y_1^3 - \\
& x_2y_1^3y_4^2 - 2x_4y_1^3y_2y_4) + b_{-3,0,1,0,2,0,0,0,0,0}^r(x_1^3x_2x_3^2 - x_1^3x_2y_3^2 - 2x_1^3x_3y_2y_3 + \\
& 6x_1^2x_2x_3y_1y_3 + 3x_1^2x_3^2y_1y_2 - 3x_1^2y_1y_2y_3^2 - 3x_1x_2x_3^2y_1^2 + 3x_1x_2y_1^2y_3^2 + \\
& 6x_1x_3y_1^2y_2y_3 - 2x_2x_3y_1^3y_3 - x_3^2y_1^3y_2 + y_1^3y_2y_3^2) + ib_{-3,0,1,0,2,0,0,0,0,0}^r(2x_1^3x_2x_3y_3 + \\
& x_1^3x_3^2y_2 - x_1^3y_2y_3^2 - 3x_1^2x_2x_3^2y_1 + 3x_1^2x_2y_1y_3^2 + 6x_1^2x_3y_1y_2y_3 - \\
& 6x_1x_2x_3y_1^2y_3 - 3x_1x_3^2y_1^2y_2 + 3x_1y_1^2y_2y_3^2 + x_2x_3^2y_1^3 - x_2y_1^3y_3^2 - 2x_3y_1^3y_2y_3) + \\
& b_{-3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) - ib_{-3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1^3y_2 + 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - x_2y_1^3) - 4ib_{-4,0,0,0,0,0,0,0,0,1}^r(x_1y_1(x_1 - y_1)(x_1 + y_1)(x_5^2 + \\
& y_5^2) + b_{-4,0,0,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) - \\
& 4ib_{-4,0,0,0,0,0,0,1,0,0}^r(x_1y_1(x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2) + b_{-4,0,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1^2 - 2x_1y_1 - \\
& y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) - 4ib_{-4,0,0,0,0,1,0,0,0,0}^r(x_1y_1(x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2) + b_{-4,0,0,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) - 4ib_{-4,0,0,1,0,0,0,0,0,0}^r(x_1y_1(x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2) + \\
& b_{-4,0,0,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) - 4ib_{-4,1,0,0,0,0,0,0,0,0}^r(x_1y_1(x_1 - \\
& y_1)(x_1 + y_1)(x_1^2 + y_1^2) + b_{-4,1,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + \\
& b_{-5,0,1,0,0,0,0,0,0,0}^r(x_1^5x_2 + 5x_1^4y_1y_2 - 10x_1^3x_2y_1^2 - 10x_1^2y_1^3y_2 + 5x_1x_2y_1^4 + y_1^5y_2) + \\
& ib_{-5,0,1,0,0,0,0,0,0,0}^r(x_1^5y_2 - 5x_1^4x_2y_1 - 10x_1^3y_1^2y_2 + 10x_1^2x_2y_1^3 + 5x_1y_1^4y_2 - x_2y_1^5) + \\
& b_{0,0,-1,0,-1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,0,-1,0,-1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,0,-1,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r(x_2x_3x_4^3x_5 - 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 + x_2x_3y_4^3y_5 - x_2x_4^3y_3y_5 - \\
& 3x_2x_4^2x_5y_3y_4 + 3x_2x_4y_3y_4^2y_5 + x_2x_5y_3y_4^3 - x_3x_4^3y_2y_5 - 3x_3x_4^2x_5y_2y_4 + \\
& 3x_3x_4y_2y_4^2y_5 + x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 + 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 - \\
& y_2y_3y_4^3y_5) - ib_{0,0,-1,0,-1,0,-3,0,-1,0}^r(x_2x_3x_4^3y_5 + 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 - \\
& x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 - 3x_2x_4^2y_3y_4y_5 - 3x_2x_4x_5y_3y_4^2 + x_2y_3y_4^3y_5 + x_3x_4^3x_5y_2 - \\
& 3x_3x_4^2y_2y_4y_5 - 3x_3x_4x_5y_2y_4^2 + x_3y_2y_4^3y_5 - x_4^3y_2y_3y_5 - 3x_4^2x_5y_2y_3y_4 + \\
& 3x_4y_2y_3y_4^2y_5 + x_5y_2y_3y_4^3) + b_{0,0,-1,0,-1,0,1,0,-3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 + \\
& 3x_2x_3x_5^2y_4y_5 - x_2x_3y_4y_5^3 - 3x_2x_4^2y_5^3y_5 + x_2x_4y_3y_5^3 + x_2x_5^3y_3y_4 - \\
& 3x_2x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_2y_5 + x_3x_4y_2y_5^3 + x_3x_5^3y_2y_4 - 3x_3x_5y_2y_4y_5^2 - \\
& x_4x_5^3y_2y_3 + 3x_4x_5y_2y_3y_5^2 - 3x_5^2y_2y_3y_4y_5 + y_2y_3y_4y_5^3) - \\
& ib_{0,0,-1,0,-1,0,1,0,-3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 - x_2x_3x_5^3y_4 + 3x_2x_3x_5y_4y_5^2 + \\
& x_2x_4x_5^3y_3 - 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 + x_3x_4x_5^3y_2 - \\
& 3x_3x_4x_5y_2y_5^2 + 3x_3x_5^2y_2y_4y_5 - x_3y_2y_4y_5^3 - 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 + \\
& x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,-1,0,1,0,3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 - \\
& 3x_2x_3x_5^2y_4y_5 + x_2x_3y_4y_5^3 + 3x_2x_4x_5^2y_3y_5 - x_2x_4y_3y_5^3 + x_2x_5^3y_3y_4 - \\
& 3x_2x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_2y_5 + x_3x_4y_2y_5^3 + x_3x_5^3y_2y_4 - 3x_3x_5y_2y_4y_5^2 - \\
& x_4x_5^3y_2y_3 + 3x_4x_5y_2y_3y_5^2 - 3x_5^2y_2y_3y_4y_5 + y_2y_3y_4y_5^3) -
\end{aligned}$$

$$\begin{aligned}
& 3x_2x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_2y_5 - x_3x_4y_2y_5^3 + x_3x_5^3y_2y_4 - 3x_3x_5y_2y_4y_5^2 - \\
& x_4x_5^3y_2y_3 + 3x_4x_5y_2y_3y_5^2 + 3x_5^2y_2y_3y_4y_5 - y_2y_3y_4y_5^3) + \\
& ib_{0,0,-1,0,-1,0,1,0,3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 + x_2x_3x_5^3y_4 - 3x_2x_3x_5y_4y_5^2 - \\
& x_2x_4x_5^3y_3 + 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 - x_3x_4x_5^3y_2 + \\
& 3x_3x_4x_5y_2y_5^2 + 3x_3x_5^2y_2y_4y_5 - x_3y_2y_4y_5^3 - 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 - \\
& x_5^3y_2y_3y_4 + 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,-1,0,3,0,-1,0}^r(x_2x_3x_4^3x_5 + 3x_2x_3x_4^2y_4y_5 - \\
& 3x_2x_3x_4x_5y_4^2 - x_2x_3y_4^3y_5 - x_2x_4^3y_3y_5 + 3x_2x_4^2x_5y_3y_4 + 3x_2x_4y_3y_4^2y_5 - \\
& x_2x_5y_3y_4^3 - x_3x_4^3y_2y_5 + 3x_3x_4^2x_5y_2y_4 + 3x_3x_4y_2y_4^2y_5 - x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 - \\
& 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 + y_2y_3y_4^3y_5) - ib_{0,0,-1,0,-1,0,3,0,-1,0}^r(x_2x_3x_4^3y_5 - \\
& 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 + x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 + 3x_2x_4^2y_3y_4y_5 - \\
& 3x_2x_4x_5y_3y_4^2 - x_2y_3y_4^3y_5 + x_3x_4^3x_5y_2 + 3x_3x_4^2y_2y_4y_5 - 3x_3x_4x_5y_2y_4^2 - \\
& x_3y_2y_4^3y_5 - x_4^3y_2y_3y_5 + 3x_4^2x_5y_2y_3y_4 + 3x_4y_2y_3y_4^2y_5 - x_5y_2y_3y_4^3) + \\
& b_{0,0,-1,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,0,-1,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r(x_2x_3^3x_4x_5 - x_2x_3^3y_4y_5 - 3x_2x_3^2x_4y_3y_5 - 3x_2x_3^2x_5y_3y_4 - \\
& 3x_2x_3x_4x_5y_3^2 + 3x_2x_3y_3^2y_4y_5 + x_2x_4y_3^3y_5 + x_2x_5y_3^3y_4 - x_3^3x_4y_2y_5 - x_3^3x_5y_2y_4 - \\
& 3x_3^2x_4x_5y_2y_3 + 3x_3^2y_2y_3y_4y_5 + 3x_3x_4y_2y_3^2y_5 + 3x_3x_5y_2y_3^2y_4 + x_4x_5y_2y_3^3 - \\
& y_2y_3^3y_4y_5) - ib_{0,0,-1,0,-3,0,-1,0,-1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 + 3x_2x_3^2x_4x_5y_3 - \\
& 3x_2x_3^2y_3y_4y_5 - 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 - x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 + \\
& x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 - 3x_3^2x_4y_2y_3y_5 - 3x_3^2x_5y_2y_3y_4 - 3x_3x_4x_5y_2y_3^2 + \\
& 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 + x_5y_2y_3^3y_4) + b_{0,0,-1,0,-3,0,1,0,1,0}^r(x_2x_3^3x_4x_5 - x_2x_3^3y_4y_5 + \\
& 3x_2x_3^2x_4y_3y_5 + 3x_2x_3^2x_5y_3y_4 - 3x_2x_3x_4x_5y_3^2 + 3x_2x_3y_3^2y_4y_5 - x_2x_4y_3^3y_5 - \\
& x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 + x_3^3x_4y_2y_4 - 3x_3^2x_4x_5y_2y_3 + 3x_3^2y_2y_3y_4y_5 - \\
& 3x_3x_4y_2y_3^2y_5 - 3x_3x_5y_2y_3^2y_4 + x_4x_5y_2y_3^3 - y_2y_3^3y_4y_5) + \\
& ib_{0,0,-1,0,-3,0,1,0,1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 - 3x_2x_3^2x_4x_5y_3 + 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 - x_2y_3^3y_4y_5 - x_3^3x_4x_5y_2 + x_3^3y_2y_4y_5 - \\
& 3x_3^2x_4y_2y_3y_5 - 3x_3^2x_5y_2y_3y_4 + 3x_3x_4x_5y_2y_3^2 - 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 + \\
& x_5y_2y_3^3y_4) + b_{0,0,-1,0,1,0,-1,0,-3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 - 3x_2x_3x_5^2y_4y_5 + x_2x_3y_4y_5^3 + \\
& 3x_2x_4x_5^2y_3y_5 - x_2x_4y_3y_5^3 + x_2x_5^3y_3y_4 - 3x_2x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_2y_5 + \\
& x_3x_4y_2y_5^3 - x_3x_5^3y_2y_4 + 3x_3x_5y_2y_4y_5^2 + x_4x_5^3y_2y_3 - 3x_4x_5y_2y_3y_5^2 - \\
& 3x_5^2y_2y_3y_4y_5 + y_2y_3y_4y_5^3) - ib_{0,0,-1,0,1,0,-1,0,-3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 + \\
& x_2x_3x_5^3y_4 - 3x_2x_3x_5y_4y_5^2 - x_2x_4x_5^3y_3 + 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - \\
& x_2y_3y_4y_5^3 + x_3x_4x_5^3y_2 - 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 + \\
& 3x_4x_5^2y_2y_3y_5 - x_4y_2y_3y_5^3 + x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,1,0,-1,0,3,0}^r(x_2x_3x_4x_5^3 - \\
& 3x_2x_3x_4x_5y_5^2 + 3x_2x_3x_5^2y_4y_5 - x_2x_3y_4y_5^3 - 3x_2x_4x_5^2y_3y_5 + x_2x_4y_3y_5^3 + \\
& x_2x_5^3y_3y_4 - 3x_2x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_2y_5 - x_3x_4y_2y_5^3 - x_3x_5^3y_2y_4 + \\
& 3x_3x_5y_2y_4y_5^2 + x_4x_5^3y_2y_3 - 3x_4x_5y_2y_3y_5^2 + 3x_5^2y_2y_3y_4y_5 - y_2y_3y_4y_5^3) + \\
& ib_{0,0,-1,0,1,0,-1,0,3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 - x_2x_3x_5^3y_4 + 3x_2x_3x_5y_4y_5^2 + \\
& x_2x_4x_5^3y_3 - 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 - x_3x_4x_5^3y_2 + \\
& 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 + 3x_4x_5^2y_2y_3y_5 - x_4y_2y_3y_5^3 - \\
& x_5^3y_2y_3y_4 + 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,1,0,-3,0,1,0}^r(x_2x_3x_4^3x_5 + 3x_2x_3x_4^2y_4y_5 -
\end{aligned}$$

$$\begin{aligned}
& 3x_2x_3x_4x_5y_4^2 - x_2x_3y_4^3y_5 - x_2x_4^3y_3y_5 + 3x_2x_4^2x_5y_3y_4 + 3x_2x_4y_3y_4^2y_5 - \\
& x_2x_5y_3y_4^3 + x_3x_4^3y_2y_5 - 3x_3x_4^2x_5y_2y_4 - 3x_3x_4y_2y_4^2y_5 + x_3x_5y_2y_4^3 + x_4^3x_5y_2y_3 + \\
& 3x_4^2y_2y_3y_4y_5 - 3x_4x_5y_2y_3y_4^2 - y_2y_3y_4^3y_5) + ib_{0,0,-1,0,1,0,-3,0,1,0}^r(x_2x_3x_4^3y_5 - \\
& 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 + x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 + 3x_2x_4^2y_3y_4y_5 - \\
& 3x_2x_4x_5y_3y_4^2 - x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 - 3x_3x_4^2y_2y_4y_5 + 3x_3x_4x_5y_2y_4^2 + \\
& x_3y_2y_4^3y_5 + x_4^3y_2y_3y_5 - 3x_4^2x_5y_2y_3y_4 - 3x_4y_2y_3y_4^2y_5 + x_5y_2y_3y_4^3) + \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) - ib_{0,0,-1,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) - ib_{0,0,-1,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r(x_2x_3x_4^3x_5 - 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 + x_2x_3y_4^3y_5 - x_2x_4^3y_3y_5 - \\
& 3x_2x_4^2x_5y_3y_4 + 3x_2x_4y_3y_4^2y_5 + x_2x_5y_3y_4^3 + x_3x_4^3y_2y_5 + 3x_3x_4^2x_5y_2y_4 - \\
& 3x_3x_4y_2y_4^2y_5 - x_3x_5y_2y_4^3 + x_4^3x_5y_2y_3 - 3x_4^2y_2y_3y_4y_5 - 3x_4x_5y_2y_3y_4^2 + \\
& y_2y_3y_4^3y_5) + ib_{0,0,-1,0,1,0,3,0,1,0}^r(x_2x_3x_4^3y_5 + 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 - \\
& x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 - 3x_2x_4^2y_3y_4y_5 - 3x_2x_4x_5y_3y_4^2 + x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 + \\
& 3x_3x_4^2y_2y_4y_5 + 3x_3x_4x_5y_2y_4^2 - x_3y_2y_4^3y_5 + x_4^3y_2y_3y_5 + 3x_4^2x_5y_2y_3y_4 - \\
& 3x_4y_2y_3y_4^2y_5 - x_5y_2y_3y_4^3) + b_{0,0,-1,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) - \\
& ib_{0,0,-1,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + b_{0,0,-1,0,3,0,-1,0,-1,0}^r(x_2x_3^3x_4x_5 - x_2x_3^3y_4y_5 + \\
& 3x_2x_3^2x_4y_3y_5 + 3x_2x_3^2x_5y_3y_4 - 3x_2x_3x_4x_5y_3^2 + 3x_2x_3y_3^2y_4y_5 - x_2x_4y_3^3y_5 - \\
& x_2x_5y_3^3y_4 - x_3^3x_4y_2y_5 - x_3^3x_5y_2y_4 + 3x_3^2x_4x_5y_2y_3 - 3x_3^2y_2y_3y_4y_5 + \\
& 3x_3x_4y_2y_3^2y_5 + 3x_3x_5y_2y_3^2y_4 - x_4x_5y_2y_3^3 + y_2y_3^3y_4y_5) - \\
& ib_{0,0,-1,0,3,0,-1,0,-1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 - 3x_2x_3^2x_4x_5y_3 + 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 - x_2y_3^3y_4y_5 + x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 + \\
& 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 - 3x_3x_4x_5y_2y_3^2 + 3x_3y_2y_3^2y_4y_5 - x_4y_2y_3^3y_5 - \\
& x_5y_2y_3^3y_4) + b_{0,0,-1,0,3,0,1,0,1,0}^r(x_2x_3^3x_4x_5 - x_2x_3^3y_4y_5 - 3x_2x_3^2x_4y_3y_5 - 3x_2x_3^2x_5y_3y_4 - \\
& 3x_2x_3x_4x_5y_3^2 + 3x_2x_3y_3^2y_4y_5 + x_2x_4y_3^3y_5 + x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 + x_3^3x_5y_2y_4 + \\
& 3x_3^2x_4x_5y_2y_3 - 3x_3^2y_2y_3y_4y_5 - 3x_3x_4y_2y_3^2y_5 - 3x_3x_5y_2y_3^2y_4 - x_4x_5y_2y_3^3 + \\
& y_2y_3^3y_4y_5) + ib_{0,0,-1,0,3,0,1,0,1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 + 3x_2x_3^2x_4x_5y_3 - \\
& 3x_2x_3^2y_3y_4y_5 - 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 - x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 - \\
& x_3^3x_4x_5y_2 + x_3^3y_2y_4y_5 + 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 + 3x_3x_4x_5y_2y_3^2 - \\
& 3x_3y_2y_3^2y_4y_5 - x_4y_2y_3^3y_5 - x_5y_2y_3^3y_4) + b_{0,0,-1,1,-1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& ib_{0,0,-1,1,-1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - \\
& x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,0,-1,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) - \\
& ib_{0,0,-1,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) - 2ib_{0,0,-2,0,-2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2y_3y_4 - x_3y_2y_4 - \\
& x_4y_2y_3)(x_2x_3y_4 + x_2x_4y_3 + x_3x_4y_2 - y_2y_3y_4) + b_{0,0,-2,0,-2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 - x_2x_4y_3 -
\end{aligned}$$

$$\begin{aligned}
& x_2y_3y_4 - x_3x_4y_2 - x_3y_2y_4 - x_4y_2y_3 + y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 + x_2x_4y_3 - x_2y_3y_4 + \\
& x_3x_4y_2 - x_3y_2y_4 - x_4y_2y_3 - y_2y_3y_4) + 2ib_{0,0,-2,0,-2,0,0,0,2,0}^r(x_2x_3x_5 + x_2y_3y_5 + x_3y_2y_5 - \\
& x_5y_2y_3)(x_2x_3y_5 - x_2x_5y_3 - x_3x_5y_2 - y_2y_3y_5) + b_{0,0,-2,0,-2,0,0,0,2,0}^r(x_2x_3x_5 - x_2x_3y_5 + x_2x_5y_3 + \\
& x_2y_3y_5 + x_3x_5y_2 + x_3y_2y_5 - x_5y_2y_3 + y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 - x_2x_5y_3 + x_2y_3y_5 - \\
& x_3x_5y_2 + x_3y_2y_5 - x_5y_2y_3 - y_2y_3y_5) - 2ib_{0,0,-2,0,-4,0,0,0,0,0}^r(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3)(2x_2x_3y_3 + \\
& x_3^2y_2 - y_2y_3^2) + b_{0,0,-2,0,-4,0,0,0,0,0}^r(x_2x_3^2 - 2x_2x_3y_3 - x_2y_3^2 - x_3^2y_2 - 2x_3y_2y_3 + \\
& y_2y_3^2)(x_2x_3^2 + 2x_2x_3y_3 - x_2y_3^2 + x_3^2y_2 - 2x_3y_2y_3 - y_2y_3^2) + 2ib_{0,0,-2,0,0,0,-2,0,2,0}^r(x_2x_4x_5 + \\
& x_2y_4y_5 + x_4y_2y_5 - x_5y_2y_4)(x_2x_4y_5 - x_2x_5y_4 - x_4x_5y_2 - y_2y_4y_5) + b_{0,0,-2,0,0,0,-2,0,2,0}^r(x_2x_4x_5 - \\
& x_2x_4y_5 + x_2x_5y_4 + x_2y_4y_5 + x_4x_5y_2 + x_4y_2y_5 - x_5y_2y_4 + y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 - \\
& x_2x_5y_4 + x_2y_4y_5 - x_4x_5y_2 + x_4y_2y_5 - x_5y_2y_4 - y_2y_4y_5) - 2ib_{0,0,-2,0,0,0,-4,0,0,0}^r(x_2x_4^2 - x_2y_4^2 - \\
& 2x_4y_2y_4)(2x_2x_4y_4 + x_4^2y_2 - y_2y_4^2) + b_{0,0,-2,0,0,0,-4,0,0,0}^r(x_2x_4^2 - 2x_2x_4y_4 - x_2y_4^2 - x_4^2y_2 - \\
& 2x_4y_2y_4 + y_2y_4^2)(x_2x_4^2 + 2x_2x_4y_4 - x_2y_4^2 + x_4^2y_2 - 2x_4y_2y_4 - y_2y_4^2) - \\
& 2ib_{0,0,-2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) + b_{0,0,-2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2x_5 - x_2y_5 - \\
& x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) + 2ib_{0,0,-2,0,0,0,0,0,4,0}^r(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5)(2x_2x_5y_5 - \\
& x_5^2y_2 + y_2y_5^2) + b_{0,0,-2,0,0,0,0,0,4,0}^r(x_2x_5^2 - 2x_2x_5y_5 - x_2y_5^2 + x_5^2y_2 + 2x_5y_2y_5 - \\
& y_2y_5^2)(x_2x_5^2 + 2x_2x_5y_5 - x_2y_5^2 - x_5^2y_2 + 2x_5y_2y_5 + y_2y_5^2) - 2ib_{0,0,-2,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) + b_{0,0,-2,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + \\
& x_2y_5 + x_5y_2 - y_2y_5) + 2ib_{0,0,-2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + \\
& b_{0,0,-2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + \\
& 2ib_{0,0,-2,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + b_{0,0,-2,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2x_4 - x_2y_4 + \\
& x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) - 2ib_{0,0,-2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2x_5 - y_2y_5)(x_2y_5 + \\
& x_5y_2) + b_{0,0,-2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) + \\
& 2ib_{0,0,-2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + b_{0,0,-2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2x_4 - x_2y_4 + \\
& x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + 2ib_{0,0,-2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2x_3 + y_2y_3)(x_2y_3 - \\
& x_3y_2) + b_{0,0,-2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + \\
& 2ib_{0,0,-2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + b_{0,0,-2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2x_3 - x_2y_3 + \\
& x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + 2ib_{0,0,-2,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2x_3 + y_2y_3)(x_2y_3 - \\
& x_3y_2) + b_{0,0,-2,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) - \\
& 2ib_{0,0,-2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) + b_{0,0,-2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2x_5 - x_2y_5 - \\
& x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) + 2ib_{0,0,-2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2x_4 + y_2y_4)(x_2y_4 - \\
& x_4y_2) + b_{0,0,-2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + \\
& 2ib_{0,0,-2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + b_{0,0,-2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2x_3 - x_2y_3 + \\
& x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + b_{0,0,-3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4x_5 + x_2^3x_3y_4y_5 - \\
& x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 + 3x_2^2x_3x_5y_2y_4 - 3x_2^2x_4x_5y_2y_3 - \\
& 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 - 3x_2x_3y_2^2y_4y_5 + 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 + \\
& x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 + x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) - ib_{0,0,-3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4y_5 - \\
& x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 + 3x_2^2x_3y_2y_4y_5 - \\
& 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 + 3x_2x_3x_5y_2^2y_4 - 3x_2x_4x_5y_2^2y_3 - \\
& 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) + \\
& b_{0,0,-3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 + x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 - \\
& 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 - \\
& 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 + x_3x_4y_2^3y_5 + x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) -
\end{aligned}$$

$$\begin{aligned}
& ib_{0,0,-3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 - x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 - \\
& 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 + \\
& 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 + x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) + \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 - x_2^3x_5y_3y_4 + 3x_2^2x_3x_4y_2y_5 + \\
& 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 + \\
& 3x_2x_4y_2^2y_3y_5 + 3x_2x_5y_2^2y_3y_4 - x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) + \\
& ib_{0,0,-3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 - x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 + \\
& 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 - \\
& 3x_2x_4x_5y_2^2y_3 + 3x_2y_2^2y_3y_4y_5 + x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) - \\
& 4ib_{0,0,-4,0,0,0,0,0,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) + b_{0,0,-4,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2^2 - 2x_2y_2 - \\
& y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - 4ib_{0,0,-4,0,0,0,0,1,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2) + b_{0,0,-4,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - 4ib_{0,0,-4,0,0,1,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2) + \\
& b_{0,0,-4,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - 4ib_{0,0,-4,1,0,0,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 + \\
& y_2^2) + b_{0,0,-4,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - \\
& 2ib_{0,0,0,0,-2,0,-2,0,-2,0}^r(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4)(x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 - y_3y_4y_5) + \\
& b_{0,0,0,0,-2,0,-2,0,-2,0}^r(x_3x_4x_5 - x_3x_4y_5 - x_3x_5y_4 - x_3y_4y_5 - x_4x_5y_3 - x_4y_3y_5 - x_5y_3y_4 + \\
& y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 + x_3x_5y_4 - x_3y_4y_5 + x_4x_5y_3 - x_4y_3y_5 - x_5y_3y_4 - y_3y_4y_5) - \\
& 2ib_{0,0,0,0,-2,0,0,0,0,2}^r(x_5^2 + y_5^2)^2 + b_{0,0,0,0,-2,0,0,0,0,2}^r(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2)^2 - \\
& 2ib_{0,0,0,0,-2,0,0,1,0,1}^r(x_3y_3)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + b_{0,0,0,0,-2,0,0,1,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) - 2ib_{0,0,0,0,-2,0,0,2,0,0}^r(x_3y_3)(x_4^2 + y_4^2)^2 + b_{0,0,0,0,-2,0,0,2,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2)^2 + \\
& 2ib_{0,0,0,0,-2,0,2,0,2,0}^r(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4)(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5) + \\
& b_{0,0,0,0,-2,0,2,0,2,0}^r(x_3x_4x_5 - x_3x_4y_5 - x_3x_5y_4 - x_3y_4y_5 + x_4x_5y_3 + x_4y_3y_5 + x_5y_3y_4 - \\
& y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 + x_3x_5y_4 - x_3y_4y_5 - x_4x_5y_3 + x_4y_3y_5 + x_5y_3y_4 + y_3y_4y_5) - \\
& 2ib_{0,0,0,0,-2,1,0,0,0,1}^r(x_3y_3)(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,0,0,-2,1,0,0,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2)(x_5^2 + \\
& y_5^2) - 2ib_{0,0,0,0,-2,1,0,1,0,0}^r(x_3y_3)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,0,0,-2,1,0,1,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + \\
& y_3^2)(x_4^2 + y_4^2) - 2ib_{0,0,0,0,-2,2,0,0,0,0}^r(x_3y_3)(x_3^2 + y_3^2)^2 + b_{0,0,0,0,-2,2,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + \\
& y_3^2)^2 - 2ib_{0,0,0,0,-4,0,0,0,-2,0}^r(x_3^2x_5 - 2x_3x_5y_3 - x_5y_3^2)(x_3^2y_5 + 2x_3x_5y_3 - y_3^2y_5) + \\
& b_{0,0,0,0,-4,0,0,0,-2,0}^r(x_3^2x_5 - x_3^2y_5 - 2x_3x_5y_3 - 2x_3y_3y_5 - x_5y_3^2 + y_3^2y_5)(x_3^2x_5 + x_3^2y_5 + \\
& 2x_3x_5y_3 - 2x_3y_3y_5 - x_5y_3^2 - y_3^2y_5) + 2ib_{0,0,0,0,-4,0,2,0,0,0}^r(x_3^2x_4 + 2x_3y_3y_4 - x_4y_3^2)(x_3^2y_4 - \\
& 2x_3x_4y_3 - y_3^2y_4) + b_{0,0,0,0,-4,0,2,0,0,0}^r(x_3^2x_4 - x_3^2y_4 + 2x_3x_4y_3 + 2x_3y_3y_4 - x_4y_3^2 + \\
& y_3^2y_4)(x_3^2x_4 + x_3^2y_4 - 2x_3x_4y_3 + 2x_3y_3y_4 - x_4y_3^2 - y_3^2y_4) - 2ib_{0,0,0,0,0,0,-2,0,0,2}^r(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2)^2 + b_{0,0,0,0,0,0,-2,0,0,2}^r(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2)^2 - 2ib_{0,0,0,0,0,0,-2,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)(x_4^2 + \\
& y_4^2) + b_{0,0,0,0,0,0,-2,1,0,1}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2)(x_5^2 + y_5^2) - 2ib_{0,0,0,0,0,0,-2,2,0,0}^r(x_4^2 + y_4^2)(x_4^2 + y_4^2)^2 + \\
& b_{0,0,0,0,0,0,-2,2,0,0}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2)^2 - 2ib_{0,0,0,0,0,0,-4,0,-2,0}^r(x_4^2x_5 - 2x_4y_4y_5 - \\
& x_5y_4^2)(x_4^2y_5 + 2x_4x_5y_4 - y_4^2y_5) + b_{0,0,0,0,0,0,-4,0,-2,0}^r(x_4^2x_5 - x_4^2y_5 - 2x_4x_5y_4 - 2x_4y_4y_5 - \\
& x_5y_4^2 + y_4^2y_5)(x_4^2x_5 + x_4^2y_5 + 2x_4x_5y_4 - 2x_4y_4y_5 - x_5y_4^2 - y_4^2y_5) - \\
& 4ib_{0,0,0,0,0,0,0,0,-4,1}^r(x_5y_5)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,0,0,-4,1}^r(x_5^2 + y_5^2)(x_5^2 - 2x_5y_5 - \\
& y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) + 2ib_{0,0,0,0,0,0,0,0,2,2}^r(x_5y_5)(x_5^2 + y_5^2)^2 + b_{0,0,0,0,0,0,0,0,2,2}^r(x_5 - y_5)(x_5 + y_5)(x_5^2 + \\
& y_5^2)(x_5^2 + y_5^2)^2 - 4ib_{0,0,0,0,0,0,0,0,1,-4,0}^r(x_5y_5)(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,0,0,0,0,0,1,-4,0}^r(x_4^2 + \\
& y_4^2)(x_5^2 - 2x_5y_5 - y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) + 2ib_{0,0,0,0,0,0,0,0,1,2,1}^r(x_5y_5)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + \\
& b_{0,0,0,0,0,0,0,0,1,2,1}^r(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) + 2ib_{0,0,0,0,0,0,0,0,2,2,0}^r(x_5y_5)(x_4^2 + y_4^2)^2 + \\
& b_{0,0,0,0,0,0,0,0,2,2,0}^r(x_4^2 + y_4^2)^2(x_5 - y_5)(x_5 + y_5) - 2ib_{0,0,0,0,0,0,2,0,-2,1}^r(x_5^2 + y_5^2)(x_4x_5 + y_4y_5)(x_4y_5 -
\end{aligned}$$



$$\begin{aligned}
& x_5y_4) + b_{0,0,0,0,0,2,0,-2,1}^r(x_5^2 + y_5^2)(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + \\
& 2ib_{0,0,0,0,0,2,0,4,0}^r(x_4x_5^2 - x_4y_5^2 - 2x_5y_4y_5)(2x_4x_5y_5 + x_5^2y_4 - y_4y_5^2) + b_{0,0,0,0,0,2,0,4,0}^r(x_4x_5^2 - \\
& 2x_4x_5y_5 - x_4y_5^2 - x_5^2y_4 - 2x_5y_4y_5 + y_4y_5^2)(x_4x_5^2 + 2x_4x_5y_5 - x_4y_5^2 + x_5^2y_4 - 2x_5y_4y_5 - \\
& y_4y_5^2) - 2ib_{0,0,0,0,0,2,1,-2,0}^r(x_4^2 + y_4^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) + b_{0,0,0,0,0,2,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + 4ib_{0,0,0,0,0,4,0,0,1}^r x_4y_4(x_4 - y_4)(x_4 + \\
& y_4)(x_5^2 + y_5^2) + b_{0,0,0,0,0,4,0,0,1}^r(x_5^2 + y_5^2)(x_4^2 - 2x_4y_4 - y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) + \\
& 4ib_{0,0,0,0,0,4,1,0,0}^r x_4y_4(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + b_{0,0,0,0,0,4,1,0,0}^r(x_4^2 + y_4^2)(x_4^2 - 2x_4y_4 - \\
& y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) - 2ib_{0,0,0,0,0,1,-2,0,0,1}^r x_4y_4(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,0,0,0,1,-2,0,0,1}^r(x_3^2 + \\
& y_3^2)(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) - 2ib_{0,0,0,0,0,1,-2,1,0,0}^r x_4y_4(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& b_{0,0,0,0,0,1,-2,1,0,0}^r(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) - 4ib_{0,0,0,0,0,1,0,0,-4,0}^r x_5y_5(x_3^2 + y_3^2)(x_5 - \\
& y_5)(x_5 + y_5) + b_{0,0,0,0,0,1,0,0,-4,0}^r(x_3^2 + y_3^2)(x_5^2 - 2x_5y_5 - y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) + \\
& 2ib_{0,0,0,0,0,1,0,0,2,1}^r x_5y_5(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,0,0,0,1,0,0,2,1}^r(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + \\
& y_5^2) + 2ib_{0,0,0,0,0,1,0,1,2,0}^r x_5y_5(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,0,0,0,1,0,1,2,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_5 - \\
& y_5)(x_5 + y_5) - 2ib_{0,0,0,0,0,1,2,0,-2,0}^r(x_3^2 + y_3^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) + b_{0,0,0,0,0,1,2,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + 4ib_{0,0,0,0,0,1,4,0,0,0}^r x_4y_4(x_3^2 + \\
& y_3^2)(x_4 - y_4)(x_4 + y_4) + b_{0,0,0,0,0,1,4,0,0,0}^r(x_3^2 + y_3^2)(x_4^2 - 2x_4y_4 - y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) - \\
& 2ib_{0,0,0,0,0,2,-2,0,0,0}^r x_4y_4(x_3^2 + y_3^2)^2 + b_{0,0,0,0,0,2,-2,0,0,0}^r(x_3^2 + y_3^2)^2(x_4 - y_4)(x_4 + y_4) + \\
& 2ib_{0,0,0,0,0,2,0,0,2,0}^r x_5y_5(x_3^2 + y_3^2)^2 + b_{0,0,0,0,0,2,0,0,2,0}^r(x_3^2 + y_3^2)^2(x_5 - y_5)(x_5 + y_5) + \\
& 2ib_{0,0,0,0,2,0,-2,0,2,0}^r(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5) + \\
& b_{0,0,0,0,2,0,-2,0,2,0}^r(x_3x_4x_5 - x_3x_4y_5 + x_3x_5y_4 + x_3y_4y_5 - x_4x_5y_3 - x_4y_3y_5 + x_5y_3y_4 - \\
& y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 - x_3x_5y_4 + x_3y_4y_5 + x_4x_5y_3 - x_4y_3y_5 + x_5y_3y_4 + y_3y_4y_5) - \\
& 2ib_{0,0,0,0,2,0,-4,0,0,0}^r(x_3x_4^2 - x_3y_4^2 + 2x_4y_3y_4)(2x_3x_4y_4 - x_4^2y_3 + y_3y_4^2) + b_{0,0,0,0,2,0,-4,0,0,0}^r(x_3x_4^2 - \\
& 2x_3x_4y_4 - x_3y_4^2 + x_4^2y_3 + 2x_4y_3y_4 - y_3y_4^2)(x_3x_4^2 + 2x_3x_4y_4 - x_3y_4^2 - x_4^2y_3 + 2x_4y_3y_4 + \\
& y_3y_4^2) - 2ib_{0,0,0,0,2,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) + b_{0,0,0,0,2,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) + 2ib_{0,0,0,0,2,0,0,4,0}^r(x_3x_5^2 - x_3y_5^2 - \\
& 2x_5y_3y_5)(2x_3x_5y_5 + x_5^2y_3 - y_3y_5^2) + b_{0,0,0,0,2,0,0,4,0}^r(x_3x_5^2 - 2x_3x_5y_5 - x_3y_5^2 - x_5^2y_3 - \\
& 2x_5y_3y_5 + y_3y_5^2)(x_3x_5^2 + 2x_3x_5y_5 - x_3y_5^2 + x_5^2y_3 - 2x_5y_3y_5 - y_3y_5^2) - \\
& 2ib_{0,0,0,0,2,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) + b_{0,0,0,0,2,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_3x_5 - x_3y_5 + \\
& x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) + 2ib_{0,0,0,0,2,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + \\
& b_{0,0,0,0,2,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) + \\
& 2ib_{0,0,0,0,2,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + b_{0,0,0,0,2,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_3x_4 - x_3y_4 - \\
& x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) - 2ib_{0,0,0,0,2,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_3x_5 + y_3y_5)(x_3y_5 - \\
& x_5y_3) + b_{0,0,0,0,2,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) + \\
& 2ib_{0,0,0,0,2,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + b_{0,0,0,0,2,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_3x_4 - x_3y_4 - \\
& x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) + 4ib_{0,0,0,0,4,0,0,0,0,1}^r x_3y_3(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) + \\
& b_{0,0,0,0,4,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) + 4ib_{0,0,0,0,4,0,0,1,0,0}^r x_3y_3(x_3 - \\
& y_3)(x_3 + y_3)(x_4^2 + y_4^2) + b_{0,0,0,0,4,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) + \\
& 4ib_{0,0,0,0,4,1,0,0,0,0}^r x_3y_3(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + b_{0,0,0,0,4,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_3^2 - 2x_3y_3 - \\
& y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) - 2ib_{0,0,0,0,1,-2,0,0,0,0,1}^r x_3y_3(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,0,0,1,-2,0,0,0,0,1}^r(x_2^2 + \\
& y_2^2)(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) - 2ib_{0,0,0,0,1,-2,0,0,1,0,0}^r x_3y_3(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& b_{0,0,0,0,1,-2,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2) - 2ib_{0,0,0,0,1,-2,1,0,0,0,0}^r x_3y_3(x_2^2 + y_2^2)(x_3^2 + \\
& y_3^2) + b_{0,0,0,0,1,-2,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) - 2ib_{0,0,0,0,1,0,0,-2,0,0,1}^r x_4y_4(x_2^2 +
\end{aligned}$$

$$\begin{aligned}
& y_2^2)(x_5^2 + y_5^2) + b_{0,0,0,1,0,0,-2,0,0,1}^r(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) - \\
& 2ib_{0,0,0,1,0,0,-2,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{0,0,0,1,0,0,-2,1,0,0}^r(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + \\
& y_4^2) - 4ib_{0,0,0,1,0,0,0,0,-4,0}^r x_5 y_5 (x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,1,0,0,0,0,-4,0}^r(x_2^2 + y_2^2)(x_5^2 - 2x_5 y_5 - \\
& y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) + 2ib_{0,0,0,1,0,0,0,0,2,1}^r x_5 y_5 (x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,0,1,0,0,0,0,2,1}^r(x_2^2 + \\
& y_2^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) + 2ib_{0,0,0,1,0,0,0,1,2,0}^r x_5 y_5 (x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& b_{0,0,0,1,0,0,0,1,2,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) - 2ib_{0,0,0,1,0,0,2,0,-2,0}^r(x_2^2 + y_2^2)(x_4 x_5 + \\
& y_4 y_5)(x_4 y_5 - x_5 y_4) + b_{0,0,0,1,0,0,2,0,-2,0}^r(x_2^2 + y_2^2)(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5)(x_4 x_5 + x_4 y_5 - x_5 y_4 + \\
& y_4 y_5) + 4ib_{0,0,0,1,0,0,4,0,0,0}^r x_4 y_4 (x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4) + b_{0,0,0,1,0,0,4,0,0,0}^r(x_2^2 + y_2^2)(x_4^2 - 2x_4 y_4 - \\
& y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) - 2ib_{0,0,0,1,0,1,-2,0,0,0}^r x_4 y_4 (x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{0,0,0,1,0,1,-2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) + 2ib_{0,0,0,1,0,1,0,0,2,0}^r x_5 y_5 (x_2^2 + y_2^2)(x_3^2 + y_3^2) + \\
& b_{0,0,0,1,0,1,0,0,2,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) - 2ib_{0,0,0,1,2,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_3 x_5 + \\
& y_3 y_5)(x_3 y_5 - x_5 y_3) + b_{0,0,0,1,2,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_3 x_5 - x_3 y_5 + x_5 y_3 + y_3 y_5)(x_3 x_5 + x_3 y_5 - x_5 y_3 + \\
& y_3 y_5) + 2ib_{0,0,0,1,2,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_3 x_4 - y_3 y_4)(x_3 y_4 + x_4 y_3) + b_{0,0,0,1,2,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_3 x_4 - \\
& x_3 y_4 - x_4 y_3 - y_3 y_4)(x_3 x_4 + x_3 y_4 + x_4 y_3 - y_3 y_4) + 4ib_{0,0,0,1,4,0,0,0,0,0}^r x_3 y_3 (x_2^2 + y_2^2)(x_3 - y_3)(x_3 + \\
& y_3) + b_{0,0,0,1,4,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 - 2x_3 y_3 - y_3^2)(x_3^2 + 2x_3 y_3 - y_3^2) - \\
& 2ib_{0,0,0,2,-2,0,0,0,0,0}^r x_3 y_3 (x_2^2 + y_2^2)^2 + b_{0,0,0,2,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_3 - y_3)(x_3 + y_3) - \\
& 2ib_{0,0,0,2,0,0,-2,0,0,0}^r x_4 y_4 (x_2^2 + y_2^2)^2 + b_{0,0,0,2,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)^2(x_4 - y_4)(x_4 + y_4) + \\
& 2ib_{0,0,0,2,0,0,0,0,2,0}^r x_5 y_5 (x_2^2 + y_2^2)^2 + b_{0,0,0,2,0,0,0,0,2,0}^r(x_2^2 + y_2^2)^2(x_5 - y_5)(x_5 + y_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + \\
& x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) - ib_{0,0,1,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,1,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + \\
& x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) - ib_{0,0,1,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-1,0,1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - \\
& y_2 y_3 y_4 y_5) + ib_{0,0,1,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + \\
& x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_2 x_3 x_4 x_5 - \\
& x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + \\
& ib_{0,0,1,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 - \\
& x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) - \\
& ib_{0,0,1,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 + \\
& x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + \\
& ib_{0,0,1,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-3,0,1,0,-1,0}^r(x_2 x_3^3 x_4 x_5 + x_2 x_3^3 y_4 y_5 - \\
& 3x_2 x_3^2 x_4 y_3 y_5 + 3x_2 x_3^2 x_5 y_3 y_4 - 3x_2 x_3 x_4 x_5 y_3^2 - 3x_2 x_3 y_3^2 y_4 y_5 + x_2 x_4 y_3^3 y_5 - \\
& x_2 x_5 y_3^3 y_4 + x_3^3 x_4 y_2 y_5 - x_3^3 x_5 y_2 y_4 + 3x_3^2 x_4 x_5 y_2 y_3 + 3x_3^2 y_2 y_3 y_4 y_5 - \\
& 3x_3 x_4 y_2 y_3^2 y_5 + 3x_3 x_5 y_2 y_3^2 y_4 - x_4 x_5 y_2 y_3^3 - y_2 y_3^3 y_4 y_5) - \\
& ib_{0,0,1,0,-3,0,1,0,-1,0}^r(x_2 x_3^3 x_4 y_5 - x_2 x_3^3 x_5 y_4 + 3x_2 x_3^2 x_4 x_5 y_3 + 3x_2 x_3^2 y_3 y_4 y_5 - \\
& 3x_2 x_3 x_4 y_3^2 y_5 + 3x_2 x_3 x_5 y_3^2 y_4 - x_2 x_4 x_5 y_3^3 - x_2 y_3^3 y_4 y_5 - x_3^3 x_4 x_5 y_2 - x_3^3 y_2 y_4 y_5 + \\
& 3x_3^2 x_4 y_2 y_3 y_5 - 3x_3^2 x_5 y_2 y_3 y_4 + 3x_3 x_4 x_5 y_2 y_3^2 + 3x_3 y_2 y_3^2 y_4 y_5 - x_4 y_2 y_3^3 y_5 +
\end{aligned}$$

$$\begin{aligned}
& x_5 y_2 y_3^3 y_4) + b_{0,0,1,0,1,0,-1,0,1,1}^r (x_5^2 + y_5^2) (x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - \\
& x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + i b_{0,0,1,0,1,0,-1,0,1,1}^r (x_5^2 + y_5^2) (x_2 x_3 x_4 y_5 - \\
& x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,1,0,1,0,-1,1,1,0}^r (x_4^2 + y_4^2) (x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + \\
& x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + i b_{0,0,1,0,1,0,-1,1,1,0}^r (x_4^2 + y_4^2) (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r (x_2 x_3 x_4^3 x_5 - 3 x_2 x_3 x_4^2 y_4 y_5 - 3 x_2 x_3 x_4 x_5 y_4^2 + x_2 x_3 y_4^3 y_5 + x_2 x_4^3 y_3 y_5 + \\
& 3 x_2 x_4^2 x_5 y_3 y_4 - 3 x_2 x_4 y_3 y_4^2 y_5 - x_2 x_5 y_3 y_4^3 + x_3 x_4^3 y_2 y_5 + 3 x_3 x_4^2 x_5 y_2 y_4 - \\
& 3 x_3 x_4 y_2 y_4^2 y_5 - x_3 x_5 y_2 y_4^3 - x_4^3 x_5 y_2 y_3 + 3 x_4^2 y_2 y_3 y_4 y_5 + 3 x_4 x_5 y_2 y_3 y_4^2 - \\
& y_2 y_3 y_4^3 y_5) - i b_{0,0,1,0,1,0,-3,0,-1,0}^r (x_2 x_3 x_4^3 y_5 + 3 x_2 x_3 x_4^2 x_5 y_4 - 3 x_2 x_3 x_4 y_4^2 y_5 - \\
& x_2 x_3 x_5 y_4^3 - x_2 x_4^3 x_5 y_3 + 3 x_2 x_4^2 y_3 y_4 y_5 + 3 x_2 x_4 x_5 y_3 y_4^2 - x_2 y_3 y_4^3 y_5 - x_3 x_4^3 x_5 y_2 + \\
& 3 x_3 x_4^2 y_2 y_4 y_5 + 3 x_3 x_4 x_5 y_2 y_4^2 - x_3 y_2 y_4^3 y_5 - x_4^3 y_2 y_3 y_5 - 3 x_4^2 x_5 y_2 y_3 y_4 + \\
& 3 x_4 y_2 y_3 y_4^2 y_5 + x_5 y_2 y_3 y_4^3) + b_{0,0,1,0,1,0,1,0,-3,0}^r (x_2 x_3 x_4 x_5^3 - 3 x_2 x_3 x_4 x_5 y_5^2 + \\
& 3 x_2 x_3 x_5^2 y_4 y_5 - x_2 x_3 y_4 y_5^3 + 3 x_2 x_4 x_5^2 y_3 y_5 - x_2 x_4 y_3 y_5^3 - x_2 x_5^3 y_3 y_4 + \\
& 3 x_2 x_5 y_3 y_4 y_5^2 + 3 x_3 x_4 x_5^2 y_2 y_5 - x_3 x_4 y_2 y_5^3 - x_3 x_5^3 y_2 y_4 + 3 x_3 x_5 y_2 y_4 y_5^2 - \\
& x_4 x_5^3 y_2 y_3 + 3 x_4 x_5 y_2 y_3 y_5^2 - 3 x_5^2 y_2 y_3 y_4 y_5 + y_2 y_3 y_4 y_5^3) - \\
& i b_{0,0,1,0,1,0,1,0,-3,0}^r (3 x_2 x_3 x_4 x_5^2 y_5 - x_2 x_3 x_4 y_5^3 - x_2 x_3 x_5^3 y_4 + 3 x_2 x_3 x_5 y_4 y_5^2 - x_2 x_4 x_5^3 y_3 + \\
& 3 x_2 x_4 x_5 y_3 y_5^2 - 3 x_2 x_5^2 y_3 y_4 y_5 + x_2 y_3 y_4 y_5^3 - x_3 x_4 x_5^3 y_2 + 3 x_3 x_4 x_5 y_2 y_5^2 - \\
& 3 x_3 x_5^2 y_2 y_4 y_5 + x_3 y_2 y_4 y_5^3 - 3 x_4 x_5^2 y_2 y_3 y_5 + x_4 y_2 y_3 y_5^3 + x_5^3 y_2 y_3 y_4 - \\
& 3 x_5 y_2 y_3 y_4 y_5^2) + b_{0,0,1,0,1,0,1,0,3,0}^r (x_2 x_3 x_4 x_5^3 - 3 x_2 x_3 x_4 x_5 y_5^2 - 3 x_2 x_3 x_5^2 y_4 y_5 + \\
& x_2 x_3 y_4 y_5^3 - 3 x_2 x_4 x_5^2 y_3 y_5 + x_2 x_4 y_3 y_5^3 - x_2 x_5^3 y_3 y_4 + 3 x_2 x_5 y_3 y_4 y_5^2 - \\
& 3 x_3 x_4 x_5^2 y_2 y_5 + x_3 x_4 y_2 y_5^3 - x_3 x_5^3 y_2 y_4 + 3 x_3 x_5 y_2 y_4 y_5^2 - x_4 x_5^3 y_2 y_3 + \\
& 3 x_4 x_5 y_2 y_3 y_5^2 + 3 x_5^2 y_2 y_3 y_4 y_5 - y_2 y_3 y_4 y_5^3) + i b_{0,0,1,0,1,0,1,0,3,0}^r (3 x_2 x_3 x_4 x_5^2 y_5 - \\
& x_2 x_3 x_4 y_5^3 + x_2 x_3 x_5^3 y_4 - 3 x_2 x_3 x_5 y_4 y_5^2 + x_2 x_4 x_5^3 y_3 - 3 x_2 x_4 x_5 y_3 y_5^2 - \\
& 3 x_2 x_5^2 y_3 y_4 y_5 + x_2 y_3 y_4 y_5^3 + x_3 x_4 x_5^3 y_2 - 3 x_3 x_4 x_5 y_2 y_5^2 - 3 x_3 x_5^2 y_2 y_4 y_5 + \\
& x_3 y_2 y_4 y_5^3 - 3 x_4 x_5^2 y_2 y_3 y_5 + x_4 y_2 y_3 y_5^3 - x_5^3 y_2 y_3 y_4 + 3 x_5 y_2 y_3 y_4 y_5^2) + \\
& b_{0,0,1,0,1,0,3,0,-1,0}^r (x_2 x_3 x_4^3 x_5 + 3 x_2 x_3 x_4^2 y_4 y_5 - 3 x_2 x_3 x_4 x_5 y_4^2 - x_2 x_3 y_4^3 y_5 + x_2 x_4^3 y_3 y_5 - \\
& 3 x_2 x_4^2 x_5 y_3 y_4 - 3 x_2 x_4 y_3 y_4^2 y_5 + x_2 x_5 y_3 y_4^3 + x_3 x_4^3 y_2 y_5 - 3 x_3 x_4^2 x_5 y_2 y_4 - \\
& 3 x_3 x_4 y_2 y_4^2 y_5 + x_3 x_5 y_2 y_4^3 - x_4^3 x_5 y_2 y_3 - 3 x_4^2 y_2 y_3 y_4 y_5 + 3 x_4 x_5 y_2 y_3 y_4^2 + \\
& y_2 y_3 y_4^3 y_5) - i b_{0,0,1,0,1,0,3,0,-1,0}^r (x_2 x_3 x_4^3 y_5 - 3 x_2 x_3 x_4^2 x_5 y_4 - 3 x_2 x_3 x_4 y_4^2 y_5 + \\
& x_2 x_3 x_5 y_4^3 - x_2 x_4^3 x_5 y_3 - 3 x_2 x_4^2 y_3 y_4 y_5 + 3 x_2 x_4 x_5 y_3 y_4^2 + x_2 y_3 y_4^3 y_5 - x_3 x_4^3 x_5 y_2 - \\
& 3 x_3 x_4^2 y_2 y_4 y_5 + 3 x_3 x_4 x_5 y_2 y_4^2 + x_3 y_2 y_4^3 y_5 - x_4^3 y_2 y_3 y_5 + 3 x_4^2 x_5 y_2 y_3 y_4 + \\
& 3 x_4 y_2 y_3 y_4^2 y_5 - x_5 y_2 y_3 y_4^3) + b_{0,0,1,0,1,1,-1,0,1,0}^r (x_3^2 + y_3^2) (x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - \\
& x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + \\
& i b_{0,0,1,0,1,1,-1,0,1,0}^r (x_3^2 + y_3^2) (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,3,0,1,0,-1,0}^r (x_2 x_3^3 x_4 x_5 + x_2 x_3^3 y_4 y_5 + \\
& 3 x_2 x_3^2 x_4 y_3 y_5 - 3 x_2 x_3^2 x_5 y_3 y_4 - 3 x_2 x_3 x_4 x_5 y_3^2 - 3 x_2 x_3 y_3^2 y_4 y_5 - x_2 x_4 y_3^3 y_5 + \\
& x_2 x_5 y_3^3 y_4 + x_3^3 x_4 y_2 y_5 - x_3^3 x_5 y_2 y_4 - 3 x_3^2 x_4 x_5 y_2 y_3 - 3 x_3^2 y_2 y_3 y_4 y_5 - \\
& 3 x_3 x_4 y_2 y_3^2 y_5 + 3 x_3 x_5 y_2 y_3^2 y_4 + x_4 x_5 y_2 y_3^3 + y_2 y_3^3 y_4 y_5) - \\
& i b_{0,0,1,0,3,0,1,0,-1,0}^r (x_2 x_3^3 x_4 y_5 - x_2 x_3^3 x_5 y_4 - 3 x_2 x_3^2 x_4 x_5 y_3 - 3 x_2 x_3^2 y_3 y_4 y_5 - \\
& 3 x_2 x_3 x_4 y_3^2 y_5 + 3 x_2 x_3 x_5 y_3^2 y_4 + x_2 x_4 x_5 y_3^3 + x_2 y_3^3 y_4 y_5 - x_3^3 x_4 x_5 y_2 - x_3^3 y_2 y_4 y_5 - \\
& 3 x_3^2 x_4 y_2 y_3 y_5 + 3 x_3^2 x_5 y_2 y_3 y_4 + 3 x_3 x_4 x_5 y_2 y_3^2 + 3 x_3 y_2 y_3^2 y_4 y_5 + x_4 y_2 y_3^3 y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_5y_2y_3^3y_4) + b_{0,0,1,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + \\
& x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - ib_{0,0,1,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 + \\
& x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,1,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,0,1,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,0,1,1,1,0,-1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - \\
& y_2y_3y_4y_5) + ib_{0,0,1,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) - 2ib_{0,0,2,0,-2,0,0,0,-2,0}^r(x_2x_3x_5 - x_2y_3y_5 + \\
& x_3y_2y_5 + x_5y_2y_3)(x_2x_3y_5 + x_2x_5y_3 - x_3x_5y_2 + y_2y_3y_5) + b_{0,0,2,0,-2,0,0,0,-2,0}^r(x_2x_3x_5 - x_2x_3y_5 - \\
& x_2x_5y_3 - x_2y_3y_5 + x_3x_5y_2 + x_3y_2y_5 + x_5y_2y_3 - y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 + x_2x_5y_3 - \\
& x_2y_3y_5 - x_3x_5y_2 + x_3y_2y_5 + x_5y_2y_3 + y_2y_3y_5) + 2ib_{0,0,2,0,-2,0,2,0,0,0}^r(x_2x_3x_4 + x_2y_3y_4 - x_3y_2y_4 + \\
& x_4y_2y_3)(x_2x_3y_4 - x_2x_4y_3 + x_3x_4y_2 + y_2y_3y_4) + b_{0,0,2,0,-2,0,2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 + x_2x_4y_3 + \\
& x_2y_3y_4 - x_3x_4y_2 - x_3y_2y_4 + x_4y_2y_3 - y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 - x_2x_4y_3 + x_2y_3y_4 + \\
& x_3x_4y_2 - x_3y_2y_4 + x_4y_2y_3 + y_2y_3y_4) - 2ib_{0,0,2,0,0,0,-2,0,-2,0}^r(x_2x_4x_5 - x_2y_4y_5 + x_4y_2y_5 + \\
& x_5y_2y_4)(x_2x_4y_5 + x_2x_5y_4 - x_4x_5y_2 + y_2y_4y_5) + b_{0,0,2,0,0,0,-2,0,-2,0}^r(x_2x_4x_5 - x_2x_4y_5 - x_2x_5y_4 - \\
& x_2y_4y_5 + x_4x_5y_2 + x_4y_2y_5 + x_5y_2y_4 - y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 + x_2x_5y_4 - x_2y_4y_5 - \\
& x_4x_5y_2 + x_4y_2y_5 + x_5y_2y_4 + y_2y_4y_5) + 2ib_{0,0,2,0,0,0,0,0,0,2}^rx_2y_2(x_5^2 + y_5^2)^2 + b_{0,0,2,0,0,0,0,0,0,2}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_5^2 + y_5^2)^2 + 2ib_{0,0,2,0,0,0,0,1,0,1}^rx_2y_2(x_4^2 + y_4^2)(x_5^2 + y_5^2) + b_{0,0,2,0,0,0,0,1,0,1}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + 2ib_{0,0,2,0,0,0,0,2,0,0}^rx_2y_2(x_4^2 + y_4^2)^2 + b_{0,0,2,0,0,0,0,2,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_4^2 + y_4^2)^2 + 2ib_{0,0,2,0,0,0,2,0,2,0}^r(x_2x_4x_5 - x_2y_4y_5 - x_4y_2y_5 - x_5y_2y_4)(x_2x_4y_5 + \\
& x_2x_5y_4 + x_4x_5y_2 - y_2y_4y_5) + b_{0,0,2,0,0,0,2,0,2,0}^r(x_2x_4x_5 - x_2x_4y_5 - x_2x_5y_4 - x_2y_4y_5 - x_4x_5y_2 - \\
& x_4y_2y_5 - x_5y_2y_4 + y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 + x_2x_5y_4 - x_2y_4y_5 + x_4x_5y_2 - x_4y_2y_5 - \\
& x_5y_2y_4 - y_2y_4y_5) + 2ib_{0,0,2,0,0,1,0,0,0,1}^rx_2y_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,2,0,0,1,0,0,0,1}^r(x_2 - y_2)(x_2 + \\
& y_2)(x_3^2 + y_3^2)(x_5^2 + y_5^2) + 2ib_{0,0,2,0,0,1,0,1,0,0}^rx_2y_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,2,0,0,1,0,1,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + 2ib_{0,0,2,0,0,2,0,0,0,0}^rx_2y_2(x_3^2 + y_3^2)^2 + b_{0,0,2,0,0,2,0,0,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_3^2 + y_3^2)^2 - 2ib_{0,0,2,0,2,0,-2,0,0,0}^r(x_2x_3x_4 + x_2y_3y_4 + x_3y_2y_4 - x_4y_2y_3)(x_2x_3y_4 - \\
& x_2x_4y_3 - x_3x_4y_2 - y_2y_3y_4) + b_{0,0,2,0,2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 + x_2x_4y_3 + x_2y_3y_4 + x_3x_4y_2 + \\
& x_3y_2y_4 - x_4y_2y_3 + y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 - x_2x_4y_3 + x_2y_3y_4 - x_3x_4y_2 + x_3y_2y_4 - \\
& x_4y_2y_3 - y_2y_3y_4) + 2ib_{0,0,2,0,2,0,0,0,2,0}^r(x_2x_3x_5 - x_2y_3y_5 - x_3y_2y_5 - x_5y_2y_3)(x_2x_3y_5 + x_2x_5y_3 + \\
& x_3x_5y_2 - y_2y_3y_5) + b_{0,0,2,0,2,0,0,0,2,0}^r(x_2x_3x_5 - x_2x_3y_5 - x_2x_5y_3 - x_2y_3y_5 - x_3x_5y_2 - x_3y_2y_5 - \\
& x_5y_2y_3 + y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 + x_2x_5y_3 - x_2y_3y_5 + x_3x_5y_2 - x_3y_2y_5 - x_5y_2y_3 - \\
& y_2y_3y_5) + 2ib_{0,0,2,1,0,0,0,0,0,1}^rx_2y_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,2,1,0,0,0,0,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 + \\
& y_2^2)(x_5^2 + y_5^2) + 2ib_{0,0,2,1,0,0,0,1,0,0}^rx_2y_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{0,0,2,1,0,0,0,1,0,0}^r(x_2 - y_2)(x_2 + \\
& y_2)(x_2^2 + y_2^2)(x_4^2 + y_4^2) + 2ib_{0,0,2,1,0,1,0,0,0,0}^rx_2y_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{0,0,2,1,0,1,0,0,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_2^2 + y_2^2)(x_3^2 + y_3^2) + 2ib_{0,0,2,2,0,0,0,0,0,0}^rx_2y_2(x_2^2 + y_2^2)^2 + b_{0,0,2,2,0,0,0,0,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_2^2 + y_2^2)^2 + b_{0,0,3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4x_5 + x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 + \\
& x_2^3x_5y_3y_4 + 3x_2^2x_3x_4y_2y_5 - 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 + 3x_2^2y_2y_3y_4y_5 - \\
& 3x_2x_3x_4x_5y_2^2 - 3x_2x_3y_2^2y_4y_5 + 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 - x_3x_4y_2^3y_5 + \\
& x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 - y_2^3y_3y_4y_5) - ib_{0,0,3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4y_5 - x_2^3x_3x_5y_4 + \\
& x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 - 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 - \\
& 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 + 3x_2x_3x_5y_2^2y_4 - 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 + \\
& x_3x_4x_5y_2^3 + x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) + b_{0,0,3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4x_5 -
\end{aligned}$$

$$\begin{aligned}
& x_2^3 x_3 y_4 y_5 + x_2^3 x_4 y_3 y_5 + x_2^3 x_5 y_3 y_4 + 3x_2^2 x_3 x_4 y_2 y_5 + 3x_2^2 x_3 x_5 y_2 y_4 - \\
& 3x_2^2 x_4 x_5 y_2 y_3 + 3x_2^2 y_2 y_3 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_2^2 + 3x_2 x_3 y_2^2 y_4 y_5 - 3x_2 x_4 y_2^2 y_3 y_5 - \\
& 3x_2 x_5 y_2^2 y_3 y_4 - x_3 x_4 y_2^3 y_5 - x_3 x_5 y_2^3 y_4 + x_4 x_5 y_2^3 y_3 - y_2^3 y_3 y_4 y_5) - \\
& ib_{0,0,3,0,1,0,-1,0,-1,0}^r (x_2^3 x_3 x_4 y_5 + x_2^3 x_3 x_5 y_4 - x_2^3 x_4 x_5 y_3 + x_2^3 y_3 y_4 y_5 - 3x_2^2 x_3 x_4 x_5 y_2 + \\
& 3x_2^2 x_3 y_2 y_4 y_5 - 3x_2^2 x_4 y_2 y_3 y_5 - 3x_2^2 x_5 y_2 y_3 y_4 - 3x_2 x_3 x_4 y_2^2 y_5 - 3x_2 x_3 x_5 y_2^2 y_4 + \\
& 3x_2 x_4 x_5 y_2^2 y_3 - 3x_2 y_2^2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2^3 - x_3 y_2^3 y_4 y_5 + x_4 y_2^3 y_3 y_5 + x_5 y_2^3 y_3 y_4) + \\
& b_{0,0,3,0,1,0,1,0,1,0}^r (x_2^3 x_3 x_4 x_5 - x_2^3 x_3 y_4 y_5 - x_2^3 x_4 y_3 y_5 - x_2^3 x_5 y_3 y_4 - 3x_2^2 x_3 x_4 y_2 y_5 - \\
& 3x_2^2 x_3 x_5 y_2 y_4 - 3x_2^2 x_4 x_5 y_2 y_3 + 3x_2^2 y_2 y_3 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_2^2 + 3x_2 x_3 y_2^2 y_4 y_5 + \\
& 3x_2 x_4 y_2^2 y_3 y_5 + 3x_2 x_5 y_2^2 y_3 y_4 + x_3 x_4 y_2^3 y_5 + x_3 x_5 y_2^3 y_4 + x_4 x_5 y_2^3 y_3 - y_2^3 y_3 y_4 y_5) + \\
& ib_{0,0,3,0,1,0,1,0,1,0}^r (x_2^3 x_3 x_4 y_5 + x_2^3 x_3 x_5 y_4 + x_2^3 x_4 x_5 y_3 - x_2^3 y_3 y_4 y_5 + 3x_2^2 x_3 x_4 x_5 y_2 - \\
& 3x_2^2 x_3 y_2 y_4 y_5 - 3x_2^2 x_4 y_2 y_3 y_5 - 3x_2^2 x_5 y_2 y_3 y_4 - 3x_2 x_3 x_4 y_2^2 y_5 - 3x_2 x_3 x_5 y_2^2 y_4 - \\
& 3x_2 x_4 x_5 y_2^2 y_3 + 3x_2 y_2^2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2^3 + x_3 y_2^3 y_4 y_5 + x_4 y_2^3 y_3 y_5 + x_5 y_2^3 y_3 y_4) - \\
& 2ib_{0,0,4,0,0,0,0,0,-2,0}^r (x_2^2 x_5 + 2x_2 y_2 y_5 - x_5 y_2^2) (x_2^2 y_5 - 2x_2 x_5 y_2 - y_2^2 y_5) + b_{0,0,4,0,0,0,0,0,-2,0}^r (x_2^2 x_5 - \\
& x_2^2 y_5 + 2x_2 x_5 y_2 + 2x_2 y_2 y_5 - x_5 y_2^2 + y_2^2 y_5) (x_2^2 x_5 + x_2^2 y_5 - 2x_2 x_5 y_2 + 2x_2 y_2 y_5 - x_5 y_2^2 - \\
& y_2^2 y_5) + 2ib_{0,0,4,0,0,0,2,0,0,0}^r (x_2^2 x_4 - 2x_2 y_2 y_4 - x_4 y_2^2) (x_2^2 y_4 + 2x_2 x_4 y_2 - y_2^2 y_4) + \\
& b_{0,0,4,0,0,0,2,0,0,0}^r (x_2^2 x_4 - x_2^2 y_4 - 2x_2 x_4 y_2 - 2x_2 y_2 y_4 - x_4 y_2^2 + y_2^2 y_4) (x_2^2 x_4 + x_2^2 y_4 + \\
& 2x_2 x_4 y_2 - 2x_2 y_2 y_4 - x_4 y_2^2 - y_2^2 y_4) + 2ib_{0,0,4,0,2,0,0,0,0,0}^r (x_2^2 x_3 - 2x_2 y_2 y_3 - x_3 y_2^2) (x_2^2 y_3 + \\
& 2x_2 x_3 y_2 - y_2^2 y_3) + b_{0,0,4,0,2,0,0,0,0,0}^r (x_2^2 x_3 - x_2^2 y_3 - 2x_2 x_3 y_2 - 2x_2 y_2 y_3 - x_3 y_2^2 + \\
& y_2^2 y_3) (x_2^2 x_3 + x_2^2 y_3 + 2x_2 x_3 y_2 - 2x_2 y_2 y_3 - x_3 y_2^2 - y_2^2 y_3) + b_{0,1,-1,0,-1,0,-1,0,1,0}^r (x_1^2 + \\
& y_1^2) (x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - \\
& y_2 y_3 y_4 y_5) + ib_{0,1,-1,0,-1,0,-1,0,1,0}^r (x_1^2 + y_1^2) (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - \\
& x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,1,-1,0,1,0,1,0,-1,0}^r (x_1^2 + y_1^2) (x_2 x_3 x_4 x_5 + \\
& x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) - \\
& ib_{0,1,-1,0,1,0,1,0,-1,0}^r (x_1^2 + y_1^2) (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4) - 2ib_{0,1,-2,0,0,0,0,0,-2,0}^r (x_1^2 + y_1^2) (x_2 x_5 - y_2 y_5) (x_2 y_5 + x_5 y_2) + \\
& b_{0,1,-2,0,0,0,0,0,-2,0}^r (x_1^2 + y_1^2) (x_2 x_5 - x_2 y_5 - x_5 y_2 - y_2 y_5) (x_2 x_5 + x_2 y_5 + x_5 y_2 - y_2 y_5) + \\
& 2ib_{0,1,-2,0,0,0,2,0,0,0}^r (x_1^2 + y_1^2) (x_2 x_4 + y_2 y_4) (x_2 y_4 - x_4 y_2) + b_{0,1,-2,0,0,0,2,0,0,0}^r (x_1^2 + y_1^2) (x_2 x_4 - x_2 y_4 + \\
& x_4 y_2 + y_2 y_4) (x_2 x_4 + x_2 y_4 - x_4 y_2 + y_2 y_4) + 2ib_{0,1,-2,0,2,0,0,0,0,0}^r (x_1^2 + y_1^2) (x_2 x_3 + y_2 y_3) (x_2 y_3 - \\
& x_3 y_2) + b_{0,1,-2,0,2,0,0,0,0,0}^r (x_1^2 + y_1^2) (x_2 x_3 - x_2 y_3 + x_3 y_2 + y_2 y_3) (x_2 x_3 + x_2 y_3 - x_3 y_2 + y_2 y_3) - \\
& 4ib_{0,1,-4,0,0,0,0,0,0,0}^r x_2 y_2 (x_1^2 + y_1^2) (x_2 - y_2) (x_2 + y_2) + b_{0,1,-4,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2) (x_2^2 - 2x_2 y_2 - \\
& y_2^2) (x_2^2 + 2x_2 y_2 - y_2^2) - 2ib_{0,1,0,0,-2,0,0,0,1}^r x_3 y_3 (x_1^2 + y_1^2) (x_5^2 + y_5^2) + b_{0,1,0,0,-2,0,0,0,1}^r (x_1^2 + \\
& y_1^2) (x_3 - y_3) (x_3 + y_3) (x_5^2 + y_5^2) - 2ib_{0,1,0,0,-2,0,0,1,0,0}^r x_3 y_3 (x_1^2 + y_1^2) (x_4^2 + y_4^2) + \\
& b_{0,1,0,0,-2,0,0,1,0,0}^r (x_1^2 + y_1^2) (x_3 - y_3) (x_3 + y_3) (x_4^2 + y_4^2) - 2ib_{0,1,0,0,-2,1,0,0,0,0}^r x_3 y_3 (x_1^2 + y_1^2) (x_3^2 + \\
& y_3^2) + b_{0,1,0,0,-2,1,0,0,0,0}^r (x_1^2 + y_1^2) (x_3 - y_3) (x_3 + y_3) (x_3^2 + y_3^2) - 2ib_{0,1,0,0,0,0,-2,0,0,1}^r x_4 y_4 (x_1^2 + \\
& y_1^2) (x_5^2 + y_5^2) + b_{0,1,0,0,0,0,-2,0,0,1}^r (x_1^2 + y_1^2) (x_4 - y_4) (x_4 + y_4) (x_5^2 + y_5^2) - \\
& 2ib_{0,1,0,0,0,0,-2,1,0,0}^r x_4 y_4 (x_1^2 + y_1^2) (x_4^2 + y_4^2) + b_{0,1,0,0,0,0,-2,1,0,0}^r (x_1^2 + y_1^2) (x_4 - y_4) (x_4 + y_4) (x_4^2 + \\
& y_4^2) - 4ib_{0,1,0,0,0,0,0,0,-4,0}^r x_5 y_5 (x_1^2 + y_1^2) (x_5 - y_5) (x_5 + y_5) + b_{0,1,0,0,0,0,0,0,-4,0}^r (x_1^2 + y_1^2) (x_5^2 - 2x_5 y_5 - \\
& y_5^2) (x_5^2 + 2x_5 y_5 - y_5^2) + 2ib_{0,1,0,0,0,0,0,0,2,1}^r x_5 y_5 (x_1^2 + y_1^2) (x_5^2 + y_5^2) + b_{0,1,0,0,0,0,0,0,2,1}^r (x_1^2 + \\
& y_1^2) (x_5 - y_5) (x_5 + y_5) (x_5^2 + y_5^2) + 2ib_{0,1,0,0,0,0,0,1,2,0}^r x_5 y_5 (x_1^2 + y_1^2) (x_4^2 + y_4^2) + \\
& b_{0,1,0,0,0,0,0,1,2,0}^r (x_1^2 + y_1^2) (x_4^2 + y_4^2) (x_5 - y_5) (x_5 + y_5) - 2ib_{0,1,0,0,0,0,2,0,-2,0}^r (x_1^2 + y_1^2) (x_4 x_5 + \\
& y_4 y_5) (x_4 y_5 - x_5 y_4) + b_{0,1,0,0,0,0,2,0,-2,0}^r (x_1^2 + y_1^2) (x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5) (x_4 x_5 + x_4 y_5 - x_5 y_4 + \\
& y_4 y_5) + 4ib_{0,1,0,0,0,0,4,0,0,0}^r x_4 y_4 (x_1^2 + y_1^2) (x_4 - y_4) (x_4 + y_4) + b_{0,1,0,0,0,0,4,0,0,0}^r (x_1^2 + y_1^2) (x_4^2 - 2x_4 y_4 -
\end{aligned}$$

$$\begin{aligned}
& y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) - 2ib_{0,1,0,0,0,1,-2,0,0,0}^r x_4y_4(x_1^2 + y_1^2)(x_3^2 + y_3^2) + b_{0,1,0,0,0,1,-2,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) + 2ib_{0,1,0,0,0,1,0,0,2,0}^r x_5y_5(x_1^2 + y_1^2)(x_3^2 + y_3^2) + \\
& b_{0,1,0,0,0,1,0,0,2,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) - 2ib_{0,1,0,0,2,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) + b_{0,1,0,0,2,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) + 2ib_{0,1,0,0,2,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + b_{0,1,0,0,2,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) + 4ib_{0,1,0,0,4,0,0,0,0,0}^r x_3y_3(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3) + b_{0,1,0,0,4,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) - \\
& 2ib_{0,1,0,1,-2,0,0,0,0,0}^r x_3y_3(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,0,1,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3) - 2ib_{0,1,0,1,0,0,-2,0,0,0}^r x_4y_4(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,0,1,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4) + 2ib_{0,1,0,1,0,0,0,0,2,0}^r x_5y_5(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,0,1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) + b_{0,1,1,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - ib_{0,1,1,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,1,1,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,1,1,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,1,1,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,1,1,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + 2ib_{0,1,2,0,0,0,0,0,0,1}^r x_2y_2(x_1^2 + y_1^2)(x_5^2 + y_5^2) + b_{0,1,2,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) + 2ib_{0,1,2,0,0,0,0,1,0,0}^r x_2y_2(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{0,1,2,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2) + 2ib_{0,1,2,0,0,1,0,0,0,0}^r x_2y_2(x_1^2 + y_1^2)(x_3^2 + y_3^2) + b_{0,1,2,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2) + 2ib_{0,1,2,1,0,0,0,0,0,0}^r x_2y_2(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,2,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_2^2 + y_2^2) - 2ib_{0,2,0,0,-2,0,0,0,0,0}^r x_3y_3(x_1^2 + y_1^2)^2 + b_{0,2,0,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_3 - y_3)(x_3 + y_3) - 2ib_{0,2,0,0,0,-2,0,0,0,0}^r x_4y_4(x_1^2 + y_1^2)^2 + b_{0,2,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)^2(x_4 - y_4)(x_4 + y_4) + 2ib_{0,2,0,0,0,0,0,0,2,0}^r x_5y_5(x_1^2 + y_1^2)^2 + b_{0,2,0,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)^2(x_5 - y_5)(x_5 + y_5) + 2ib_{0,2,2,0,0,0,0,0,0,0}^r x_2y_2(x_1^2 + y_1^2)^2 + b_{0,2,2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_2 - y_2)(x_2 + y_2) + b_{1,0,-1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - ib_{1,0,-1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_3y_3 + x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{1,0,-1,0,-2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - ib_{1,0,-1,0,-2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_3y_3 + x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{1,0,-1,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - ib_{1,0,-1,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - ib_{1,0,-1,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_3y_3 + x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{1,0,-1,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - ib_{1,0,-1,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{1,0,-1,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - ib_{1,0,-1,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{1,0,-1,0,0,0,0,-4,0}^r(x_1x_2x_5^4 - 6x_1x_2x_5^2y_5^2 + x_1x_2y_5^4 - 4x_1x_5^3y_2y_5 + 4x_1x_5y_2y_5^3 + 4x_2x_5^3y_1y_5 - 4x_2x_5y_1y_5^3 + x_5^4y_1y_2 - 6x_5^2y_1y_2y_5^2 + y_1y_2y_5^4) - ib_{1,0,-1,0,0,0,0,-4,0}^r(4x_1x_2x_5^3y_5 - 4x_1x_2x_5y_5^3 + x_1x_5^4y_2 - 6x_1x_5^2y_2y_5^2 + x_1y_2y_5^4 - x_2x_5^4y_1 + 6x_2x_5^2y_1y_5^2 - x_2y_1y_5^4 + 4x_5^3y_1y_2y_5 -
\end{aligned}$$

$$\begin{aligned}
& 4x_5y_1y_2y_5^3) + b_{1,0,-1,0,0,0,0,2,1}^r(x_5^2 + y_5^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) + ib_{1,0,-1,0,0,0,0,2,1}^r(x_5^2 + y_5^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + \\
& x_2x_5^2y_1 - x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,0,-1,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + \\
& 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) + ib_{1,0,-1,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(2x_1x_2x_5y_5 - \\
& x_1x_5^2y_2 + x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,0,-1,0,0,0,2,0,-2,0}^r(x_1x_2x_4^2x_5^2 - \\
& x_1x_2x_4^2y_5^2 + 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + x_1x_2y_4^2y_5^2 - 2x_1x_4^2x_5y_2y_5 + \\
& 2x_1x_4x_5^2y_2y_4 - 2x_1x_4y_2y_4y_5^2 + 2x_1x_5y_2y_4^2y_5 + 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + \\
& 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 + x_4^2x_5^2y_1y_2 - x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 - \\
& x_5^2y_1y_2y_4^2 + y_1y_2y_4^2y_5^2) - ib_{1,0,-1,0,0,0,2,0,-2,0}^r(2x_1x_2x_4^2x_5y_5 - 2x_1x_2x_4x_5^2y_4 + \\
& 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 + x_1x_4^2x_5^2y_2 - x_1x_4^2y_2y_5^2 + 4x_1x_4x_5y_2y_4y_5 - \\
& x_1x_5^2y_2y_4^2 + x_1y_2y_4^2y_5^2 - x_2x_4^2x_5^2y_1 + x_2x_4^2y_1y_5^2 - 4x_2x_4x_5y_1y_4y_5 + \\
& x_2x_5^2y_1y_4^2 - x_2y_1y_4^2y_5^2 + 2x_4^2x_5y_1y_2y_5 - 2x_4x_5^2y_1y_2y_4 + 2x_4y_1y_2y_4y_5^2 - \\
& 2x_5y_1y_2y_4^2y_5) + b_{1,0,-1,0,0,0,4,0,0,0}^r(x_1x_2x_4^4 - 6x_1x_2x_4^2y_4^2 + x_1x_2y_4^4 + 4x_1x_4^3y_2y_4 - \\
& 4x_1x_4y_2y_4^3 - 4x_2x_4^3y_1y_4 + 4x_2x_4y_1y_4^3 + x_4^4y_1y_2 - 6x_4^2y_1y_2y_4^2 + y_1y_2y_4^4) + \\
& ib_{1,0,-1,0,0,0,4,0,0,0}^r(4x_1x_2x_4^3y_4 - 4x_1x_2x_4y_4^3 - x_1x_4^4y_2 + 6x_1x_4^2y_2y_4^2 - x_1y_2y_4^4 + \\
& x_2x_4^4y_1 - 6x_2x_4^2y_1y_4^2 + x_2y_1y_4^4 + 4x_4^3y_1y_2y_4 - 4x_4y_1y_2y_4^3) + b_{1,0,-1,0,0,1,-2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - \\
& ib_{1,0,-1,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) + b_{1,0,-1,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) + ib_{1,0,-1,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + \\
& x_2x_5^2y_1 - x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,0,-1,0,2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + \\
& 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 - 2x_1x_3^2x_5y_2y_5 + 2x_1x_3x_5^2y_2y_3 - \\
& 2x_1x_3y_2y_3y_5^2 + 2x_1x_5y_2y_3^2y_5 + 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 - \\
& 2x_2x_5y_1y_3^2y_5 + x_3^2x_5^2y_1y_2 - x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 - x_5^2y_1y_2y_3^2 + \\
& y_1y_2y_3^2y_5^2) - ib_{1,0,-1,0,2,0,0,0,-2,0}^r(2x_1x_2x_3^2x_5y_5 - 2x_1x_2x_3x_5^2y_3 + 2x_1x_2x_3y_3y_5^2 - \\
& 2x_1x_2x_5y_3^2y_5 + x_1x_3^2x_5^2y_2 - x_1x_3^2y_2y_5^2 + 4x_1x_3x_5y_2y_3y_5 - x_1x_5^2y_2y_3^2 + \\
& x_1y_2y_3^2y_5^2 - x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 - 4x_2x_3x_5y_1y_3y_5 + x_2x_5^2y_1y_3^2 - \\
& x_2y_1y_3^2y_5^2 + 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 - 2x_5y_1y_2y_3^2y_5) + \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + \\
& x_1x_2y_3^2y_4^2 + 2x_1x_3^2x_4y_2y_4 + 2x_1x_3x_4^2y_2y_3 - 2x_1x_3y_2y_3y_4^2 - 2x_1x_4y_2y_3^2y_4 - \\
& 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 + x_3^2x_4^2y_1y_2 - \\
& x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 - x_4^2y_1y_2y_3^2 + y_1y_2y_3^2y_4^2) + \\
& ib_{1,0,-1,0,2,0,2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 - \\
& x_1x_3^2x_4^2y_2 + x_1x_3^2y_2y_4^2 + 4x_1x_3x_4y_2y_3y_4 + x_1x_4^2y_2y_3^2 - x_1y_2y_3^2y_4^2 + \\
& x_2x_3^2x_4^2y_1 - x_2x_3^2y_1y_4^2 - 4x_2x_3x_4y_1y_3y_4 - x_2x_4^2y_1y_3^2 + x_2y_1y_3^2y_4^2 + \\
& 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - 2x_3y_1y_2y_3y_4^2 - 2x_4y_1y_2y_3^2y_4) + \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r(x_1x_2x_3^4 - 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 + 4x_1x_3^3y_2y_3 - 4x_1x_3y_2y_3^3 - \\
& 4x_2x_3^3y_1y_3 + 4x_2x_3y_1y_3^3 + x_3^4y_1y_2 - 6x_3^2y_1y_2y_3^2 + y_1y_2y_3^4) + \\
& ib_{1,0,-1,0,4,0,0,0,0,0}^r(4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 - x_1x_3^4y_2 + 6x_1x_3^2y_2y_3^2 - x_1y_2y_3^4 + \\
& x_2x_3^4y_1 - 6x_2x_3^2y_1y_3^2 + x_2y_1y_3^4 + 4x_3^3y_1y_2y_3 - 4x_3y_1y_2y_3^3) + b_{1,0,-1,1,-2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - \\
& ib_{1,0,-1,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_3y_3 + x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 +
\end{aligned}$$

$$\begin{aligned}
& 2x_3y_1y_2y_3) + b_{1,0,-1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + \\
& x_4^2y_1y_2 - y_1y_2y_4^2) - ib_{1,0,-1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - \\
& x_2x_4^2y_1 + x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{1,0,-1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + \\
& 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) + ib_{1,0,-1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 - \\
& x_1x_5^2y_2 + x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,0,-2,0,-1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4x_5 + \\
& x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 - \\
& 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 + \\
& x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + \\
& 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 - \\
& x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) + ib_{1,0,-2,0,-1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4y_5 - \\
& x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 - \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 + \\
& x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 - \\
& x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{1,0,-2,0,1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + \\
& x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + \\
& 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 + \\
& x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 + \\
& 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + \\
& x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) - ib_{1,0,-2,0,1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - \\
& x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + \\
& 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 + \\
& x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 + \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + \\
& x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{1,0,-3,0,0,0,0,0,-2,0}^r(x_1x_2^3x_5^2 - x_1x_2^3y_5^2 - \\
& 6x_1x_2^2x_5y_2y_5 - 3x_1x_2x_5^2y_2^2 + 3x_1x_2y_2^2y_5^2 + 2x_1x_5y_2^3y_5 + 2x_2^3x_5y_1y_5 + \\
& 3x_2^2x_5^2y_1y_2 - 3x_2^2y_1y_2y_5^2 - 6x_2x_5y_1y_2^2y_5 - x_5^2y_1y_2^3 + y_1y_2^3y_5^2) - \\
& ib_{1,0,-3,0,0,0,0,0,-2,0}^r(2x_1x_2^3x_5y_5 + 3x_1x_2^2x_5^2y_2 - 3x_1x_2^2y_2y_5^2 - 6x_1x_2x_5y_2^2y_5 - \\
& x_1x_5^2y_2^3 + x_1y_2^3y_5^2 - x_2^3x_5^2y_1 + x_2^3y_1y_5^2 + 6x_2^2x_5y_1y_2y_5 + 3x_2x_5^2y_1y_2^2 - \\
& 3x_2y_1y_2^2y_5^2 - 2x_5y_1y_2^3y_5) + b_{1,0,-3,0,0,0,2,0,0,0}^r(x_1x_2^3x_4^2 - x_1x_2^3y_4^2 + 6x_1x_2^2x_4y_2y_4 - \\
& 3x_1x_2x_4^2y_2^2 + 3x_1x_2y_2^2y_4^2 - 2x_1x_4y_2^3y_4 - 2x_2^3x_4y_1y_4 + 3x_2^2x_4^2y_1y_2 - \\
& 3x_2^2y_1y_2y_4^2 + 6x_2x_4y_1y_2^2y_4 - x_4^2y_1y_2^3 + y_1y_2^3y_4^2) + ib_{1,0,-3,0,0,0,2,0,0,0}^r(2x_1x_2^3x_4y_4 - \\
& 3x_1x_2^2x_4^2y_2 + 3x_1x_2^2y_2y_4^2 - 6x_1x_2x_4y_2^2y_4 + x_1x_4^2y_2^3 - x_1y_2^3y_4^2 + x_2^3x_4^2y_1 - \\
& x_2^3y_1y_4^2 + 6x_2^2x_4y_1y_2y_4 - 3x_2x_4^2y_1y_2^2 + 3x_2y_1y_2^2y_4^2 - 2x_4y_1y_2^3y_4) + \\
& b_{1,0,-3,0,2,0,0,0,0,0}^r(x_1x_2^3x_3^2 - x_1x_2^3y_3^2 + 6x_1x_2^2x_3y_2y_3 - 3x_1x_2x_3^2y_2^2 + 3x_1x_2y_2^2y_3^2 - \\
& 2x_1x_3y_2^3y_3 - 2x_2^3x_3y_1y_3 + 3x_2^2x_3^2y_1y_2 - 3x_2^2y_1y_2y_3^2 + 6x_2x_3y_1y_2^2y_3 - \\
& x_3^3y_1y_2^3 + y_1y_2^3y_3^2) + ib_{1,0,-3,0,2,0,0,0,0,0}^r(2x_1x_2^3x_3y_3 - 3x_1x_2^2x_3^2y_2 + 3x_1x_2^2y_2y_3^2 - \\
& 6x_1x_2x_3y_2^2y_3 + x_1x_3^2y_2^3 - x_1y_2^3y_3^2 + x_2^3x_3^2y_1 - x_2^3y_1y_3^2 + 6x_2^2x_3y_1y_2y_3 - \\
& 3x_2x_3^2y_1y_2^2 + 3x_2y_1y_2^2y_3^2 - 2x_3y_1y_2^3y_3) + b_{1,0,-5,0,0,0,0,0,0,0}^r(x_1x_2^5 - 10x_1x_2^3y_2^2 + \\
& 5x_1x_2y_2^4 + 5x_2^4y_1y_2 - 10x_2^2y_1y_2^3 + y_1y_2^5) - ib_{1,0,-5,0,0,0,0,0,0,0}^r(5x_1x_2^4y_2 - 10x_1x_2^2y_2^3 + \\
& x_1y_2^5 - x_2^5y_1 + 10x_2^3y_1y_2^2 - 5x_2y_1y_2^4) + b_{1,0,0,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 - \\
& x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) -
\end{aligned}$$



$$\begin{aligned}
& ib_{1,0,0,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{1,0,0,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,0,0,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,0,0,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{1,0,0,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,0,0,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-3,0,1,0,-1,0}^r(x_1x_3^3x_4x_5 + x_1x_3^3y_4y_5 - \\
& 3x_1x_3^2x_4y_3y_5 + 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 - 3x_1x_3y_3^2y_4y_5 + x_1x_4y_3^3y_5 - \\
& x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 + 3x_3^2x_4x_5y_1y_3 + 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 - y_1y_3^3y_4y_5) - \\
& ib_{1,0,0,0,-3,0,1,0,-1,0}^r(x_1x_3^3x_4y_5 - x_1x_3^3x_5y_4 + 3x_1x_3^2x_4x_5y_3 + 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 + 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 + \\
& 3x_3^2x_4y_1y_3y_5 - 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 + \\
& x_5y_1y_3^3y_4) + b_{1,0,0,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + ib_{1,0,0,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + ib_{1,0,0,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + \\
& x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,1,0,-3,0,-1,0}^r(x_1x_3x_4^3x_5 - 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 + x_1x_3y_4^3y_5 + x_1x_4^3y_3y_5 + \\
& 3x_1x_4^2x_5y_3y_4 - 3x_1x_4y_3y_4^2y_5 - x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 + 3x_3x_4^2x_5y_1y_4 - \\
& 3x_3x_4y_1y_4^2y_5 - x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 + 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 - \\
& y_1y_3y_4^3y_5) - ib_{1,0,0,0,1,0,-3,0,-1,0}^r(x_1x_3x_4^3y_5 + 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 - \\
& x_1x_3x_5y_4^3 - x_1x_4^3x_5y_3 + 3x_1x_4^2y_3y_4y_5 + 3x_1x_4x_5y_3y_4^2 - x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 + \\
& 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 - x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 - 3x_4^2x_5y_1y_3y_4 + \\
& 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3) + b_{1,0,0,0,1,0,1,0,-3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 + \\
& 3x_1x_3x_5^2y_4y_5 - x_1x_3y_4y_5^3 + 3x_1x_4x_5^2y_3y_5 - x_1x_4y_3y_5^3 - x_1x_5^3y_3y_4 + \\
& 3x_1x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_1y_5 - x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 - \\
& x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 - 3x_5^2y_1y_3y_4y_5 + y_1y_3y_4y_5^3) - \\
& ib_{1,0,0,0,1,0,1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - x_1x_3x_5^3y_4 + 3x_1x_3x_5y_4y_5^2 - x_1x_4x_5^3y_3 + \\
& 3x_1x_4x_5y_3y_5^2 - 3x_1x_5^2y_3y_4y_5 + x_1y_3y_4y_5^3 - x_3x_4x_5^3y_1 + 3x_3x_4x_5y_1y_5^2 - \\
& 3x_3x_5^2y_1y_4y_5 + x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 + x_5^3y_1y_3y_4 -
\end{aligned}$$

$$\begin{aligned}
& 3x_5y_1y_3y_4y_5^2) + b_{1,0,0,0,1,0,1,0,3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 - 3x_1x_3x_5^2y_4y_5 + \\
& x_1x_3y_4y_5^3 - 3x_1x_4x_5^2y_3y_5 + x_1x_4y_3y_5^3 - x_1x_5^3y_3y_4 + 3x_1x_5y_3y_4y_5^2 - \\
& 3x_3x_4x_5^2y_1y_5 + x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 - x_4x_5^3y_1y_3 + \\
& 3x_4x_5y_1y_3y_5^2 + 3x_5^2y_1y_3y_4y_5 - y_1y_3y_4y_5^3) + ib_{1,0,0,0,1,0,1,0,3,0}^r(3x_1x_3x_4x_5^2y_5 - \\
& x_1x_3x_4y_5^3 + x_1x_3x_5^3y_4 - 3x_1x_3x_5y_4y_5^2 + x_1x_4x_5^3y_3 - 3x_1x_4x_5y_3y_5^2 - \\
& 3x_1x_5^2y_3y_4y_5 + x_1y_3y_4y_5^3 + x_3x_4x_5^3y_1 - 3x_3x_4x_5y_1y_5^2 - 3x_3x_5^2y_1y_4y_5 + \\
& x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 - x_5^3y_1y_3y_4 + 3x_5y_1y_3y_4y_5^2) + \\
& b_{1,0,0,0,1,0,3,0,-1,0}^r(x_1x_3x_4^3x_5 + 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 - x_1x_3y_4^3y_5 + x_1x_4^3y_3y_5 - \\
& 3x_1x_4^2x_5y_3y_4 - 3x_1x_4y_3y_4^2y_5 + x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 - 3x_3x_4^2x_5y_1y_4 - \\
& 3x_3x_4y_1y_4^2y_5 + x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 - 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 + \\
& y_1y_3y_4^3y_5) - ib_{1,0,0,0,1,0,3,0,-1,0}^r(x_1x_3x_4^3y_5 - 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 + \\
& x_1x_3x_5y_4^3 - x_1x_4^3x_5y_3 - 3x_1x_4^2x_5y_3y_4y_5 + 3x_1x_4x_5y_3y_4^2 + x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 - \\
& 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 + x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 + 3x_4^2x_5y_1y_3y_4 + \\
& 3x_4y_1y_3y_4^2y_5 - x_5y_1y_3y_4^3) + b_{1,0,0,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,0,0,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,3,0,1,0,-1,0}^r(x_1x_3^3x_4x_5 + x_1x_3^3y_4y_5 + \\
& 3x_1x_3^2x_4y_3y_5 - 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 - 3x_1x_3y_3^2y_4y_5 - x_1x_4y_3^3y_5 + \\
& x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 - 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 + x_4x_5y_1y_3^3 + y_1y_3^3y_4y_5) - \\
& ib_{1,0,0,0,3,0,1,0,-1,0}^r(x_1x_3^3x_4y_5 - x_1x_3^3x_5y_4 - 3x_1x_3^2x_4x_5y_3 - 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 + 3x_1x_3x_5y_3^2y_4 + x_1x_4x_5y_3^3 + x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 - \\
& 3x_3^2x_4y_1y_3y_5 + 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 + x_4y_1y_3^3y_5 - \\
& x_5y_1y_3^3y_4) + b_{1,0,0,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - ib_{1,0,0,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 + \\
& x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + ib_{1,0,0,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - \\
& x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,1,1,0,-1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) + ib_{1,0,0,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + \\
& x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,1,0,-2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - \\
& x_1x_2x_3^2y_5^2 - 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 + \\
& 2x_1x_3x_5^2y_2y_3 - 2x_1x_3y_2y_3y_5^2 - 2x_1x_5y_2y_3^2y_5 + 2x_2x_3^2x_5y_1y_5 + 2x_2x_3x_5^2y_1y_3 - \\
& 2x_2x_3y_1y_3y_5^2 - 2x_2x_5y_1y_3^2y_5 - x_3^2x_5^2y_1y_2 + x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 + \\
& x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) - ib_{1,0,1,0,-2,0,0,0,-2,0}^r(2x_1x_2x_3^2x_5y_5 + 2x_1x_2x_3x_5^2y_3 - \\
& 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 - x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 + 4x_1x_3x_5y_2y_3y_5 + \\
& x_1x_5^2y_2y_3^2 - x_1y_2y_3^2y_5^2 - x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 + 4x_2x_3x_5y_1y_3y_5 + \\
& x_2x_5^2y_1y_3^2 - x_2y_1y_3^2y_5^2 - 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 + \\
& 2x_5y_1y_2y_3^2y_5) + b_{1,0,1,0,-2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 + 4x_1x_2x_3x_4y_3y_4 - \\
& x_1x_2x_4^2y_3^2 + x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 + 2x_1x_3x_4^2y_2y_3 - 2x_1x_3y_2y_3y_4^2 + \\
& 2x_1x_4y_2y_3^2y_4 - 2x_2x_3^2x_4y_1y_4 + 2x_2x_3x_4^2y_1y_3 - 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 -
\end{aligned}$$

$$\begin{aligned}
& x_3^2 x_4^2 y_1 y_2 + x_3^2 y_1 y_2 y_4^2 - 4x_3 x_4 y_1 y_2 y_3 y_4 + x_4^2 y_1 y_2 y_3^2 - y_1 y_2 y_3^2 y_4^2 + \\
& ib_{1,0,1,0,-2,0,2,0,0,0}^r (2x_1 x_2 x_3^2 x_4 y_4 - 2x_1 x_2 x_3 x_4^2 y_3 + 2x_1 x_2 x_3 y_3 y_4^2 - 2x_1 x_2 x_4 y_3^2 y_4 + \\
& x_1 x_3^2 x_4^2 y_2 - x_1 x_3^2 y_2 y_4^2 + 4x_1 x_3 x_4 y_2 y_3 y_4 - x_1 x_4^2 y_2 y_3^2 + x_1 y_2 y_3^2 y_4^2 + \\
& x_2 x_3^2 x_4^2 y_1 - x_2 x_3^2 y_1 y_4^2 + 4x_2 x_3 x_4 y_1 y_3 y_4 - x_2 x_4^2 y_1 y_3^2 + x_2 y_1 y_3^2 y_4^2 - \\
& 2x_3^2 x_4 y_1 y_2 y_4 + 2x_3 x_4^2 y_1 y_2 y_3 - 2x_3 y_1 y_2 y_3 y_4^2 + 2x_4 y_1 y_2 y_3^2 y_4) + \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r (x_1 x_2 x_4^2 x_5^2 - x_1 x_2 x_4^2 y_5^2 - 4x_1 x_2 x_4 x_5 y_4 y_5 - x_1 x_2 x_5^2 y_4^2 + \\
& x_1 x_2 y_4^2 y_5^2 + 2x_1 x_4^2 x_5 y_2 y_5 + 2x_1 x_4 x_5^2 y_2 y_4 - 2x_1 x_4 y_2 y_4 y_5^2 - 2x_1 x_5 y_2 y_4^2 y_5 + \\
& 2x_2 x_4^2 x_5 y_1 y_5 + 2x_2 x_4 x_5^2 y_1 y_4 - 2x_2 x_4 y_1 y_4 y_5^2 - 2x_2 x_5 y_1 y_4^2 y_5 - x_4^2 x_5^2 y_1 y_2 + \\
& x_4^2 y_1 y_2 y_5^2 + 4x_4 x_5 y_1 y_2 y_4 y_5 + x_5^2 y_1 y_2 y_4^2 - y_1 y_2 y_4^2 y_5^2) - \\
& ib_{1,0,1,0,0,0,-2,0,-2,0}^r (2x_1 x_2 x_4^2 x_5 y_5 + 2x_1 x_2 x_4 x_5^2 y_4 - 2x_1 x_2 x_4 y_4 y_5^2 - 2x_1 x_2 x_5 y_4^2 y_5 - \\
& x_1 x_4^2 x_5^2 y_2 + x_1 x_4^2 y_2 y_5^2 + 4x_1 x_4 x_5 y_2 y_4 y_5 + x_1 x_5^2 y_2 y_4^2 - x_1 y_2 y_4^2 y_5^2 - \\
& x_2 x_4^2 x_5^2 y_1 + x_2 x_4^2 y_1 y_5^2 + 4x_2 x_4 x_5 y_1 y_4 y_5 + x_2 x_5^2 y_1 y_4^2 - x_2 y_1 y_4^2 y_5^2 - \\
& 2x_4^2 x_5 y_1 y_2 y_5 - 2x_4 x_5^2 y_1 y_2 y_4 + 2x_4 y_1 y_2 y_4 y_5^2 + 2x_5 y_1 y_2 y_4^2 y_5) + b_{1,0,1,0,0,0,0,0,0,2}^r (x_5^2 + \\
& y_5^2)^2 (x_1 x_2 - y_1 y_2) + ib_{1,0,1,0,0,0,0,0,0,2}^r (x_5^2 + y_5^2)^2 (x_1 y_2 + x_2 y_1) + b_{1,0,1,0,0,0,0,0,1,0,1}^r (x_4^2 + y_4^2) (x_5^2 + \\
& y_5^2) (x_1 x_2 - y_1 y_2) + ib_{1,0,1,0,0,0,0,0,1,0,1}^r (x_4^2 + y_4^2) (x_5^2 + y_5^2) (x_1 y_2 + x_2 y_1) + b_{1,0,1,0,0,0,0,2,0,0}^r (x_4^2 + \\
& y_4^2)^2 (x_1 x_2 - y_1 y_2) + ib_{1,0,1,0,0,0,0,2,0,0}^r (x_4^2 + y_4^2)^2 (x_1 y_2 + x_2 y_1) + b_{1,0,1,0,0,0,0,2,0,2,0}^r (x_1 x_2 x_4^2 x_5^2 - \\
& x_1 x_2 x_4^2 y_5^2 - 4x_1 x_2 x_4 x_5 y_4 y_5 - x_1 x_2 x_5^2 y_4^2 + x_1 x_2 y_4^2 y_5^2 - 2x_1 x_4^2 x_5 y_2 y_5 - \\
& 2x_1 x_4 x_5^2 y_2 y_4 + 2x_1 x_4 y_2 y_4 y_5^2 + 2x_1 x_5 y_2 y_4^2 y_5 - 2x_2 x_4^2 x_5 y_1 y_5 - 2x_2 x_4 x_5^2 y_1 y_4 + \\
& 2x_2 x_4 y_1 y_4 y_5^2 + 2x_2 x_5 y_1 y_4^2 y_5 - x_4^2 x_5^2 y_1 y_2 + x_4^2 y_1 y_2 y_5^2 + 4x_4 x_5 y_1 y_2 y_4 y_5 + \\
& x_5^2 y_1 y_2 y_4^2 - y_1 y_2 y_4^2 y_5^2) + ib_{1,0,1,0,0,0,0,2,0,2,0}^r (2x_1 x_2 x_4^2 x_5 y_5 + 2x_1 x_2 x_4 x_5^2 y_4 - \\
& 2x_1 x_2 x_4 y_4 y_5^2 - 2x_1 x_2 x_5 y_4^2 y_5 + x_1 x_4^2 x_5^2 y_2 - x_1 x_4^2 y_2 y_5^2 - 4x_1 x_4 x_5 y_2 y_4 y_5 - \\
& x_1 x_5^2 y_2 y_4^2 + x_1 y_2 y_4^2 y_5^2 + x_2 x_4^2 x_5^2 y_1 - x_2 x_4^2 y_1 y_5^2 - 4x_2 x_4 x_5 y_1 y_4 y_5 - \\
& x_2 x_5^2 y_1 y_4^2 + x_2 y_1 y_4^2 y_5^2 - 2x_4^2 x_5 y_1 y_2 y_5 - 2x_4 x_5^2 y_1 y_2 y_4 + 2x_4 y_1 y_2 y_4 y_5^2 + \\
& 2x_5 y_1 y_2 y_4^2 y_5) + b_{1,0,1,0,0,1,0,0,0,1}^r (x_3^2 + y_3^2) (x_5^2 + y_5^2) (x_1 x_2 - y_1 y_2) + ib_{1,0,1,0,0,1,0,0,0,1}^r (x_3^2 + \\
& y_3^2) (x_5^2 + y_5^2) (x_1 y_2 + x_2 y_1) + b_{1,0,1,0,0,0,1,0,1,0,0}^r (x_3^2 + y_3^2) (x_4^2 + y_4^2) (x_1 x_2 - y_1 y_2) + \\
& ib_{1,0,1,0,0,1,0,1,0,0}^r (x_3^2 + y_3^2) (x_4^2 + y_4^2) (x_1 y_2 + x_2 y_1) + b_{1,0,1,0,0,2,0,0,0,0}^r (x_3^2 + y_3^2)^2 (x_1 x_2 - y_1 y_2) + \\
& ib_{1,0,1,0,0,2,0,0,0,0}^r (x_3^2 + y_3^2)^2 (x_1 y_2 + x_2 y_1) + b_{1,0,1,0,2,0,-2,0,0,0}^r (x_1 x_2 x_3^2 x_4^2 - x_1 x_2 x_3^2 y_4^2 + \\
& 4x_1 x_2 x_3 x_4 y_3 y_4 - x_1 x_2 x_4^2 y_3^2 + x_1 x_2 y_3^2 y_4^2 + 2x_1 x_3^2 x_4 y_2 y_4 - 2x_1 x_3 x_4^2 y_2 y_3 + \\
& 2x_1 x_3 y_2 y_3 y_4^2 - 2x_1 x_4 y_2 y_3^2 y_4 + 2x_2 x_3^2 x_4 y_1 y_4 - 2x_2 x_3 x_4^2 y_1 y_3 + 2x_2 x_3 y_1 y_3 y_4^2 - \\
& 2x_2 x_4 y_1 y_3^2 y_4 - x_3^2 x_4^2 y_1 y_2 + x_3^2 y_1 y_2 y_4^2 - 4x_3 x_4 y_1 y_2 y_3 y_4 + x_4^2 y_1 y_2 y_3^2 - \\
& y_1 y_2 y_3^2 y_4^2) - ib_{1,0,1,0,2,0,-2,0,0,0}^r (2x_1 x_2 x_3^2 x_4 y_4 - 2x_1 x_2 x_3 x_4^2 y_3 + 2x_1 x_2 x_3 y_3 y_4^2 - \\
& 2x_1 x_2 x_4 y_3^2 y_4 - x_1 x_3^2 x_4^2 y_2 + x_1 x_3^2 y_2 y_4^2 - 4x_1 x_3 x_4 y_2 y_3 y_4 + x_1 x_4^2 y_2 y_3^2 - \\
& x_1 y_2 y_3^2 y_4^2 - x_2 x_3^2 x_4^2 y_1 + x_2 x_3^2 y_1 y_4^2 - 4x_2 x_3 x_4 y_1 y_3 y_4 + x_2 x_4^2 y_1 y_3^2 - \\
& x_2 y_1 y_3^2 y_4^2 - 2x_3^2 x_4 y_1 y_2 y_4 + 2x_3 x_4^2 y_1 y_2 y_3 - 2x_3 y_1 y_2 y_3 y_4^2 + 2x_4 y_1 y_2 y_3^2 y_4) + \\
& b_{1,0,1,0,2,0,0,0,2,0}^r (x_1 x_2 x_3^2 x_5^2 - x_1 x_2 x_3^2 y_5^2 - 4x_1 x_2 x_3 x_5 y_3 y_5 - x_1 x_2 x_5^2 y_3^2 + \\
& x_1 x_2 y_3^2 y_5^2 - 2x_1 x_3^2 x_5 y_2 y_5 - 2x_1 x_3 x_5^2 y_2 y_3 + 2x_1 x_3 y_2 y_3 y_5^2 + 2x_1 x_5 y_2 y_3^2 y_5 - \\
& 2x_2 x_3^2 x_5 y_1 y_5 - 2x_2 x_3 x_5^2 y_1 y_3 + 2x_2 x_3 y_1 y_3 y_5^2 + 2x_2 x_5 y_1 y_3^2 y_5 - x_3^2 x_5^2 y_1 y_2 + \\
& x_3^2 y_1 y_2 y_5^2 + 4x_3 x_5 y_1 y_2 y_3 y_5 + x_5^2 y_1 y_2 y_3^2 - y_1 y_2 y_3^2 y_5^2) + \\
& ib_{1,0,1,0,2,0,0,0,2,0}^r (2x_1 x_2 x_3^2 x_5 y_5 + 2x_1 x_2 x_3 x_5^2 y_3 - 2x_1 x_2 x_3 y_3 y_5^2 - 2x_1 x_2 x_5 y_3^2 y_5 + \\
& x_1 x_3^2 x_5^2 y_2 - x_1 x_3^2 y_2 y_5^2 - 4x_1 x_3 x_5 y_2 y_3 y_5 - x_1 x_5^2 y_2 y_3^2 + x_1 y_2 y_3^2 y_5^2 + \\
& x_2 x_3^2 x_5^2 y_1 - x_2 x_3^2 y_1 y_5^2 - 4x_2 x_3 x_5 y_1 y_3 y_5 - x_2 x_5^2 y_1 y_3^2 + x_2 y_1 y_3^2 y_5^2 - \\
& 2x_3^2 x_5 y_1 y_2 y_5 - 2x_3 x_5^2 y_1 y_2 y_3 + 2x_3 y_1 y_2 y_3 y_5^2 + 2x_5 y_1 y_2 y_3^2 y_5) + b_{1,0,1,1,0,0,0,0,0,1}^r (x_2^2 +
\end{aligned}$$

$$\begin{aligned}
& y_2^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) + ib_{1,0,1,1,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2)(x_1y_2 + x_2y_1) + \\
& b_{1,0,1,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_1x_2 - y_1y_2) + ib_{1,0,1,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + \\
& y_4^2)(x_1y_2 + x_2y_1) + b_{1,0,1,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_1x_2 - y_1y_2) + ib_{1,0,1,1,0,1,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_3^2 + y_3^2)(x_1y_2 + x_2y_1) + b_{1,0,1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1x_2 - y_1y_2) + ib_{1,0,1,2,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)^2(x_1y_2 + x_2y_1) + b_{1,0,2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 + \\
& x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 - \\
& x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 + \\
& 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 - \\
& y_1y_2^2y_3y_4y_5) - ib_{1,0,2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 + \\
& x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 + \\
& x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 + \\
& x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 - \\
& 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - \\
& y_1y_2^2y_3y_4y_5) - ib_{1,0,2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 + \\
& x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 + \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 + \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 - \\
& x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 - \\
& x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + \\
& 2x_2x_4y_1y_2y_3y_5 + 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - \\
& y_1y_2^2y_3y_4y_5) + ib_{1,0,2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 - \\
& x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,3,0,0,0,0,0,-2,0}^r(x_1x_2^3x_5^2 - x_1x_2^3y_5^2 + 6x_1x_2^2x_5y_2y_5 - 3x_1x_2x_5^2y_2^2 + \\
& 3x_1x_2y_2^2y_5^2 - 2x_1x_5y_2^2y_5 + 2x_2^2x_5y_1y_5 - 3x_2^2x_5^2y_1y_2 + 3x_2^2y_1y_2y_5^2 - \\
& 6x_2x_5y_1y_2^2y_5 + x_5^2y_1y_2^3 - y_1y_2^3y_5^2) - ib_{1,0,3,0,0,0,0,0,-2,0}^r(2x_1x_2^3x_5y_5 - 3x_1x_2^2x_5^2y_2 + \\
& 3x_1x_2^2y_2y_5^2 - 6x_1x_2x_5y_2^2y_5 + x_1x_5^2y_2^3 - x_1y_2^3y_5^2 - x_2^2x_5^2y_1 + x_2^3y_1y_5^2 - \\
& 6x_2^2x_5y_1y_2y_5 + 3x_2x_5^2y_1y_2^2 - 3x_2y_1y_2^2y_5^2 + 2x_5y_1y_2^2y_5) + \\
& b_{1,0,3,0,0,0,2,0,0,0}^r(x_1x_2^3x_4^2 - x_1x_2^3y_4^2 - 6x_1x_2^2x_4y_2y_4 - 3x_1x_2x_4^2y_2^2 + 3x_1x_2y_2^2y_4^2 + \\
& 2x_1x_4y_2^3y_4 - 2x_2^3x_4y_1y_4 - 3x_2^2x_4^2y_1y_2 + 3x_2^2y_1y_2y_4^2 + 6x_2x_4y_1y_2^2y_4 + \\
& x_4^2y_1y_2^3 - y_1y_2^3y_4^2) + ib_{1,0,3,0,0,0,2,0,0,0}^r(2x_1x_2^3x_4y_4 + 3x_1x_2^2x_4^2y_2 - 3x_1x_2^2y_2y_4^2 -
\end{aligned}$$

$$\begin{aligned}
& 6x_1x_2x_4y_2^2y_4 - x_1x_4^2y_2^3 + x_1y_2^3y_4^2 + x_2^3x_4^2y_1 - x_2^3y_1y_4^2 - 6x_2^2x_4y_1y_2y_4 - \\
& 3x_2x_4^2y_1y_2^2 + 3x_2y_1y_2^2y_4^2 + 2x_4y_1y_2^3y_4) + b_{1,0,3,0,2,0,0,0,0}^r(x_1x_2^3x_3^2 - x_1x_2^3y_3^2 - \\
& 6x_1x_2^2x_3y_2y_3 - 3x_1x_2x_3^2y_2^2 + 3x_1x_2y_2^2y_3^2 + 2x_1x_3y_2^3y_3 - 2x_2^3x_3y_1y_3 - \\
& 3x_2^2x_3^2y_1y_2 + 3x_2^2y_1y_2y_3^2 + 6x_2x_3y_1y_2^2y_3 + x_3^2y_1y_2^3 - y_1y_2^3y_3^2) + \\
& ib_{1,0,3,0,2,0,0,0,0}^r(2x_1x_2^2x_3y_3 + 3x_1x_2^2x_3^2y_2 - 3x_1x_2^2y_2y_3^2 - 6x_1x_2x_3y_2^2y_3 - \\
& x_1x_3^2y_2^3 + x_1y_2^3y_3^2 + x_2^3x_3^2y_1 - x_2^3y_1y_3^2 - 6x_2^2x_3y_1y_2y_3 - 3x_2x_3^2y_1y_2^2 + \\
& 3x_2y_1y_2^2y_3^2 + 2x_3y_1y_2^3y_3) + b_{1,1,-1,0,-2,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - \\
& 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_2^3y_1y_2 - y_1y_2y_3^2) - ib_{1,1,-1,0,-2,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_3y_3 + \\
& x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{1,1,-1,0,0,0,-2,0,0}^r(x_1^2 + \\
& y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - \\
& ib_{1,1,-1,0,0,0,-2,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) + b_{1,1,-1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) + ib_{1,1,-1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + \\
& x_2x_5^2y_1 - x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,1,0,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{1,1,0,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,1,0,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,1,0,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,1,0,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,1,0,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,1,1,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) + \\
& ib_{1,1,1,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1y_2 + x_2y_1) + b_{1,1,1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + \\
& y_4^2)(x_1x_2 - y_1y_2) + ib_{1,1,1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1y_2 + x_2y_1) + b_{1,1,1,0,0,1,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_3^2 + y_3^2)(x_1x_2 - y_1y_2) + ib_{1,1,1,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_1y_2 + x_2y_1) + \\
& b_{1,1,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_1x_2 - y_1y_2) + ib_{1,1,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + \\
& y_2^2)(x_1y_2 + x_2y_1) + b_{1,2,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_1x_2 - y_1y_2) + ib_{1,2,1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)^2(x_1y_2 + x_2y_1) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 - \\
& x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 + \\
& 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + \\
& 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) - ib_{2,0,-1,0,-1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{2,0,-1,0,-1,0,1,0,1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + \\
& 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 +
\end{aligned}$$

$$\begin{aligned}
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + ib_{2,0,-1,0,-1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{2,0,-1,0,1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + ib_{2,0,-1,0,1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) - 2ib_{2,0,-2,0,-2,0,0,0,0,0}^r(x_1x_2x_3 - x_1y_2y_3 + x_2y_1y_3 + \\
& x_3y_1y_2)(x_1x_2y_3 + x_1x_3y_2 - x_2x_3y_1 + y_1y_2y_3) + b_{2,0,-2,0,-2,0,0,0,0,0}^r(x_1x_2x_3 - x_1x_2y_3 - x_1x_3y_2 - \\
& x_1y_2y_3 + x_2x_3y_1 + x_2y_1y_3 + x_3y_1y_2 - y_1y_2y_3)(x_1x_2x_3 + x_1x_2y_3 + x_1x_3y_2 - x_1y_2y_3 - \\
& x_2x_3y_1 + x_2y_1y_3 + x_3y_1y_2 + y_1y_2y_3) - 2ib_{2,0,-2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 - x_1y_2y_4 + x_2y_1y_4 + \\
& x_4y_1y_2)(x_1x_2y_4 + x_1x_4y_2 - x_2x_4y_1 + y_1y_2y_4) + b_{2,0,-2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 - x_1x_2y_4 - x_1x_4y_2 - \\
& x_1y_2y_4 + x_2x_4y_1 + x_2y_1y_4 + x_4y_1y_2 - y_1y_2y_4)(x_1x_2x_4 + x_1x_2y_4 + x_1x_4y_2 - x_1y_2y_4 - \\
& x_2x_4y_1 + x_2y_1y_4 + x_4y_1y_2 + y_1y_2y_4) + 2ib_{2,0,-2,0,0,0,0,0,2,0}^r(x_1x_2x_5 + x_1y_2y_5 - x_2y_1y_5 + \\
& x_5y_1y_2)(x_1x_2y_5 - x_1x_5y_2 + x_2x_5y_1 + y_1y_2y_5) + b_{2,0,-2,0,0,0,0,0,2,0}^r(x_1x_2x_5 - x_1x_2y_5 + x_1x_5y_2 + \\
& x_1y_2y_5 - x_2x_5y_1 - x_2y_1y_5 + x_5y_1y_2 - y_1y_2y_5)(x_1x_2x_5 + x_1x_2y_5 - x_1x_5y_2 + x_1y_2y_5 + \\
& x_2x_5y_1 - x_2y_1y_5 + x_5y_1y_2 + y_1y_2y_5) - 2ib_{2,0,0,0,-2,0,0,0,-2,0}^r(x_1x_3x_5 - x_1y_3y_5 + x_3y_1y_5 + \\
& x_5y_1y_3)(x_1x_3y_5 + x_1x_5y_3 - x_3x_5y_1 + y_1y_3y_5) + b_{2,0,0,0,-2,0,0,0,-2,0}^r(x_1x_3x_5 - x_1x_3y_5 - x_1x_5y_3 - \\
& x_1y_3y_5 + x_3x_5y_1 + x_3y_1y_5 + x_5y_1y_3 - y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 + x_1x_5y_3 - x_1y_3y_5 - \\
& x_3x_5y_1 + x_3y_1y_5 + x_5y_1y_3 + y_1y_3y_5) + 2ib_{2,0,0,0,-2,0,2,0,0,0}^r(x_1x_3x_4 + x_1y_3y_4 - x_3y_1y_4 + \\
& x_4y_1y_3)(x_1x_3y_4 - x_1x_4y_3 + x_3x_4y_1 + y_1y_3y_4) + b_{2,0,0,0,-2,0,2,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 + x_1x_4y_3 + \\
& x_1y_3y_4 - x_3x_4y_1 - x_3y_1y_4 + x_4y_1y_3 - y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 - x_1x_4y_3 + x_1y_3y_4 + \\
& x_3x_4y_1 - x_3y_1y_4 + x_4y_1y_3 + y_1y_3y_4) - 2ib_{2,0,0,0,0,0,-2,0,-2,0}^r(x_1x_4x_5 - x_1y_4y_5 + x_4y_1y_5 + \\
& x_5y_1y_4)(x_1x_4y_5 + x_1x_5y_4 - x_4x_5y_1 + y_1y_4y_5) + b_{2,0,0,0,0,0,-2,0,-2,0}^r(x_1x_4x_5 - x_1x_4y_5 - x_1x_5y_4 - \\
& x_1y_4y_5 + x_4x_5y_1 + x_4y_1y_5 + x_5y_1y_4 - y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 + x_1x_5y_4 - x_1y_4y_5 - \\
& x_4x_5y_1 + x_4y_1y_5 + x_5y_1y_4 + y_1y_4y_5) + 2ib_{2,0,0,0,0,0,0,0,2,0}^r(x_1y_1(x_5^2 + y_5^2)^2 + b_{2,0,0,0,0,0,0,0,2}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_5^2 + y_5^2)^2 + 2ib_{2,0,0,0,0,0,0,0,1,0,1}^r(x_1y_1(x_4^2 + y_4^2)(x_5^2 + y_5^2) + b_{2,0,0,0,0,0,0,0,1,0,1}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + 2ib_{2,0,0,0,0,0,0,2,0,0}^r(x_1y_1(x_4^2 + y_4^2)^2 + b_{2,0,0,0,0,0,0,2,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_4^2 + y_4^2)^2 + 2ib_{2,0,0,0,0,0,2,0,2,0}^r(x_1x_4x_5 - x_1y_4y_5 - x_4y_1y_5 - x_5y_1y_4)(x_1x_4y_5 + \\
& x_1x_5y_4 + x_4x_5y_1 - y_1y_4y_5) + b_{2,0,0,0,0,0,2,0,2,0}^r(x_1x_4x_5 - x_1x_4y_5 - x_1x_5y_4 - x_1y_4y_5 - x_4x_5y_1 - \\
& x_4y_1y_5 - x_5y_1y_4 + y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 + x_1x_5y_4 - x_1y_4y_5 + x_4x_5y_1 - x_4y_1y_5 - \\
& x_5y_1y_4 - y_1y_4y_5) + 2ib_{2,0,0,0,0,1,0,0,0,1}^r(x_1y_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{2,0,0,0,0,1,0,0,0,1}^r(x_1 - y_1)(x_1 + \\
& y_1)(x_3^2 + y_3^2)(x_5^2 + y_5^2) + 2ib_{2,0,0,0,0,1,0,1,0,0}^r(x_1y_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{2,0,0,0,0,1,0,1,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + 2ib_{2,0,0,0,0,2,0,0,0,0}^r(x_1y_1(x_3^2 + y_3^2)^2 + b_{2,0,0,0,0,2,0,0,0,0}^r(x_1 -
\end{aligned}$$

$$\begin{aligned}
& y_1)(x_1 + y_1)(x_3^2 + y_3^2)^2 - 2ib_{2,0,0,0,2,0,-2,0,0,0}^r(x_1x_3x_4 + x_1y_3y_4 + x_3y_1y_4 - x_4y_1y_3)(x_1x_3y_4 - \\
& x_1x_4y_3 - x_3x_4y_1 - y_1y_3y_4) + b_{2,0,0,0,2,0,-2,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 + x_1x_4y_3 + x_1y_3y_4 + x_3x_4y_1 + \\
& x_3y_1y_4 - x_4y_1y_3 + y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 - x_1x_4y_3 + x_1y_3y_4 - x_3x_4y_1 + x_3y_1y_4 - \\
& x_4y_1y_3 - y_1y_3y_4) + 2ib_{2,0,0,0,2,0,0,0,2,0}^r(x_1x_3x_5 - x_1y_3y_5 - x_3y_1y_5 - x_5y_1y_3)(x_1x_3y_5 + x_1x_5y_3 + \\
& x_3x_5y_1 - y_1y_3y_5) + b_{2,0,0,0,2,0,0,0,2,0}^r(x_1x_3x_5 - x_1x_3y_5 - x_1x_5y_3 - x_1y_3y_5 - x_3x_5y_1 - x_3y_1y_5 - \\
& x_5y_1y_3 + y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 + x_1x_5y_3 - x_1y_3y_5 + x_3x_5y_1 - x_3y_1y_5 - x_5y_1y_3 - \\
& y_1y_3y_5) + 2ib_{2,0,0,1,0,0,0,0,0,1}^r x_1y_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{2,0,0,1,0,0,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + \\
& y_2^2)(x_5^2 + y_5^2) + 2ib_{2,0,0,1,0,0,0,1,0,0}^r x_1y_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{2,0,0,1,0,0,0,1,0,0}^r(x_1 - y_1)(x_1 + \\
& y_1)(x_2^2 + y_2^2)(x_4^2 + y_4^2) + 2ib_{2,0,0,1,0,1,0,0,0,0}^r x_1y_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{2,0,0,1,0,1,0,0,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_2^2 + y_2^2)(x_3^2 + y_3^2) + 2ib_{2,0,0,2,0,0,0,0,0,0}^r x_1y_1(x_2^2 + y_2^2)^2 + b_{2,0,0,2,0,0,0,0,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_2^2 + y_2^2)^2 + b_{2,0,1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 + \\
& x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 + \\
& 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) - ib_{2,0,1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{2,0,1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) - ib_{2,0,1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{2,0,1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 - x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + ib_{2,0,1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) - 2ib_{2,0,2,0,0,0,0,0,-2,0}^r(x_1x_2x_5 + x_1y_2y_5 + x_2y_1y_5 - \\
& x_5y_1y_2)(x_1x_2y_5 - x_1x_5y_2 - x_2x_5y_1 - y_1y_2y_5) + b_{2,0,2,0,0,0,0,0,-2,0}^r(x_1x_2x_5 - x_1x_2y_5 + x_1x_5y_2 + \\
& x_1y_2y_5 + x_2x_5y_1 + x_2y_1y_5 - x_5y_1y_2 + y_1y_2y_5)(x_1x_2x_5 + x_1x_2y_5 - x_1x_5y_2 + x_1y_2y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_2x_5y_1 + x_2y_1y_5 - x_5y_1y_2 - y_1y_2y_5) + 2ib_{2,0,2,0,0,0,2,0,0,0}^r(x_1x_2x_4 - x_1y_2y_4 - x_2y_1y_4 - \\
& x_4y_1y_2)(x_1x_2y_4 + x_1x_4y_2 + x_2x_4y_1 - y_1y_2y_4) + b_{2,0,2,0,0,0,2,0,0,0}^r(x_1x_2x_4 - x_1x_2y_4 - x_1x_4y_2 - \\
& x_1y_2y_4 - x_2x_4y_1 - x_2y_1y_4 - x_4y_1y_2 + y_1y_2y_4)(x_1x_2x_4 + x_1x_2y_4 + x_1x_4y_2 - x_1y_2y_4 + \\
& x_2x_4y_1 - x_2y_1y_4 - x_4y_1y_2 - y_1y_2y_4) + 2ib_{2,0,2,0,2,0,0,0,0,0}^r(x_1x_2x_3 - x_1y_2y_3 - x_2y_1y_3 - \\
& x_3y_1y_2)(x_1x_2y_3 + x_1x_3y_2 + x_2x_3y_1 - y_1y_2y_3) + b_{2,0,2,0,2,0,0,0,0,0}^r(x_1x_2x_3 - x_1x_2y_3 - x_1x_3y_2 - \\
& x_1y_2y_3 - x_2x_3y_1 - x_2y_1y_3 - x_3y_1y_2 + y_1y_2y_3)(x_1x_2x_3 + x_1x_2y_3 + x_1x_3y_2 - x_1y_2y_3 + \\
& x_2x_3y_1 - x_2y_1y_3 - x_3y_1y_2 - y_1y_2y_3) + 2ib_{2,1,0,0,0,0,0,0,0,1}^r x_1y_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) + \\
& b_{2,1,0,0,0,0,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_5^2 + y_5^2) + 2ib_{2,1,0,0,0,0,0,1,0,0}^r x_1y_1(x_1^2 + y_1^2)(x_4^2 + \\
& y_4^2) + b_{2,1,0,0,0,0,0,1,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_4^2 + y_4^2) + 2ib_{2,1,0,0,0,1,0,0,0,0}^r x_1y_1(x_1^2 + \\
& y_1^2)(x_3^2 + y_3^2) + b_{2,1,0,0,0,1,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_3^2 + y_3^2) + \\
& 2ib_{2,1,0,1,0,0,0,0,0,0}^r x_1y_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{2,1,0,1,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_2^2 + \\
& y_2^2) + 2ib_{2,2,0,0,0,0,0,0,0,0}^r x_1y_1(x_1^2 + y_1^2)^2 + b_{2,2,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)^2 + \\
& b_{3,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) - ib_{3,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + b_{3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1^3x_2 + 3x_1^2y_1y_2 - \\
& 3x_1x_2y_1^2 - y_1^3y_2) - ib_{3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + \\
& b_{3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) - ib_{3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + b_{3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^3x_2 + 3x_1^2y_1y_2 - \\
& 3x_1x_2y_1^2 - y_1^3y_2) - ib_{3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + \\
& b_{3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4x_5 + x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 + x_1^3x_5y_3y_4 + 3x_1^2x_3x_4y_1y_5 - \\
& 3x_1^2x_3x_5y_1y_4 + 3x_1^2x_4x_5y_1y_3 + 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 - 3x_1x_3y_1^2y_4y_5 + \\
& 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 - x_3x_4y_1^3y_5 + x_3x_5y_1^3y_4 - x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) - \\
& ib_{3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4y_5 - x_1^3x_3x_5y_4 + x_1^3x_4x_5y_3 + x_1^3y_3y_4y_5 - 3x_1^2x_3x_4x_5y_1 - \\
& 3x_1^2x_3y_1y_4y_5 + 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 + 3x_1x_3x_5y_1^2y_4 - \\
& 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 + x_3y_1^3y_4y_5 - x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + \\
& b_{3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 + x_1^3x_4y_3y_5 + x_1^3x_5y_3y_4 + 3x_1^2x_3x_4y_1y_5 + \\
& 3x_1^2x_3x_5y_1y_4 - 3x_1^2x_4x_5y_1y_3 + 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 - \\
& 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 - x_3x_4y_1^3y_5 - x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) - \\
& ib_{3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 - x_1^3x_4x_5y_3 + x_1^3y_3y_4y_5 - 3x_1^2x_3x_4x_5y_1 + \\
& 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 + \\
& 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 - x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + \\
& b_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 - x_1^3x_5y_3y_4 - 3x_1^2x_3x_4y_1y_5 - \\
& 3x_1^2x_3x_5y_1y_4 - 3x_1^2x_4x_5y_1y_3 + 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 + \\
& 3x_1x_4y_1^2y_3y_5 + 3x_1x_5y_1^2y_3y_4 + x_3x_4y_1^3y_5 + x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) + \\
& ib_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 + x_1^3x_4x_5y_3 - x_1^3y_3y_4y_5 + 3x_1^2x_3x_4x_5y_1 - \\
& 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 + \\
& 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 - x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + \\
& b_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 - x_1^3x_5y_3y_4 - 3x_1^2x_3x_4y_1y_5 - \\
& 3x_1^2x_3x_5y_1y_4 - 3x_1^2x_4x_5y_1y_3 + 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 + \\
& 3x_1x_4y_1^2y_3y_5 + 3x_1x_5y_1^2y_3y_4 + x_3x_4y_1^3y_5 + x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) + \\
& ib_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 + x_1^3x_4x_5y_3 - x_1^3y_3y_4y_5 + 3x_1^2x_3x_4x_5y_1 - \\
& 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 - \\
& 3x_1x_4x_5y_1^2y_3 + 3x_1y_1^2y_3y_4y_5 - x_3x_4x_5y_1^3 + x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + \\
& b_{3,0,1,0,0,0,0,0,-2,0}^r(x_1^3x_2x_5^2 - x_1^3x_2y_5^2 + 2x_1^3x_5y_2y_5 + 6x_1^2x_2x_5y_1y_5 - 3x_1^2x_5^2y_1y_2 + \\
& 3x_1^2y_1y_2y_5^2 - 3x_1x_2x_5^2y_1^2 + 3x_1x_2y_1^2y_5^2 - 6x_1x_5y_1^2y_2y_5 - 2x_2x_5y_1^3y_5 + \\
& x_5^2y_1^3y_2 - y_1^3y_2y_5^2) - ib_{3,0,1,0,0,0,0,0,-2,0}^r(2x_1^3x_2x_5y_5 - x_1^3x_5^2y_2 + x_1^3y_2y_5^2 - \\
& 3x_1^2x_2x_5^2y_1 + 3x_1^2x_2y_1y_5^2 - 6x_1^2x_5y_1y_2y_5 - 6x_1x_2x_5y_1^2y_5 + 3x_1x_5^2y_1^2y_2 - \\
& 3x_1y_1^2y_2y_5^2 + x_2x_5^2y_1^3 - x_2y_1^3y_5^2 + 2x_5y_1^3y_2y_5) + b_{3,0,1,0,0,0,2,0,0,0}^r(x_1^3x_2x_4^2 - \\
& x_1^3x_2y_4^2 - 2x_1^3x_4y_2y_4 - 6x_1^2x_2x_4y_1y_4 - 3x_1^2x_4^2y_1y_2 + 3x_1^2y_1y_2y_4^2 -
\end{aligned}$$



$$\begin{aligned}
& 3x_1x_2x_4^2y_1^2 + 3x_1x_2y_1^2y_4^2 + 6x_1x_4y_1^2y_2y_4 + 2x_2x_4y_1^3y_4 + x_4^2y_1^3y_2 - y_1^3y_2y_4^2 + \\
& ib_{3,0,1,0,0,0,2,0,0,0}^r(2x_1^3x_2x_4y_4 + x_1^3x_4^2y_2 - x_1^3y_2y_4^2 + 3x_1^2x_2x_4^2y_1 - 3x_1^2x_2y_1y_4^2 - \\
& 6x_1^2x_4y_1y_2y_4 - 6x_1x_2x_4y_1^2y_4 - 3x_1x_4^2y_1^2y_2 + 3x_1y_1^2y_2y_4^2 - x_2x_4^2y_1^3 + \\
& x_2y_1^3y_4^2 + 2x_4y_1^3y_2y_4) + b_{3,0,1,0,2,0,0,0,0,0}^r(x_1^3x_2x_3^2 - x_1^3x_2y_3^2 - 2x_1^3x_3y_2y_3 - \\
& 6x_1^2x_2x_3y_1y_3 - 3x_1^2x_3^2y_1y_2 + 3x_1^2y_1y_2y_3^2 - 3x_1x_2x_3^2y_1^2 + 3x_1x_2y_1^2y_3^2 + \\
& 6x_1x_3y_1^2y_2y_3 + 2x_2x_3y_1^3y_3 + x_3^2y_1^3y_2 - y_1^3y_2y_3^2) + ib_{3,0,1,0,2,0,0,0,0,0}^r(2x_1^3x_2x_3y_3 + \\
& x_1^3x_3^2y_2 - x_1^3y_2y_3^2 + 3x_1^2x_2x_3^2y_1 - 3x_1^2x_2y_1y_3^2 - 6x_1^2x_3y_1y_2y_3 - \\
& 6x_1x_2x_3y_1^2y_3 - 3x_1x_3^2y_1^2y_2 + 3x_1y_1^2y_2y_3^2 - x_2x_3^2y_1^3 + x_2y_1^3y_3^2 + 2x_3y_1^3y_2y_3) + \\
& b_{3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) - ib_{3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) - 2ib_{4,0,-2,0,0,0,0,0,0,0}^r(x_1^2x_2 + 2x_1y_1y_2 - \\
& x_2y_1^2)(x_1^2y_2 - 2x_1x_2y_1 - y_1^2y_2) + b_{4,0,-2,0,0,0,0,0,0,0}^r(x_1^2x_2 - x_1^2y_2 + 2x_1x_2y_1 + 2x_1y_1y_2 - \\
& x_2y_1^2 + y_1^2y_2)(x_1^2x_2 + x_1^2y_2 - 2x_1x_2y_1 + 2x_1y_1y_2 - x_2y_1^2 - y_1^2y_2) - \\
& 2ib_{4,0,0,0,0,0,0,0,-2,0}^r(x_1^2x_5 + 2x_1y_1y_5 - x_5y_1^2)(x_1^2y_5 - 2x_1x_5y_1 - y_1^2y_5) + b_{4,0,0,0,0,0,0,0,-2,0}^r(x_1^2x_5 - \\
& x_1^2y_5 + 2x_1x_5y_1 + 2x_1y_1y_5 - x_5y_1^2 + y_1^2y_5)(x_1^2x_5 + x_1^2y_5 - 2x_1x_5y_1 + 2x_1y_1y_5 - x_5y_1^2 - \\
& y_1^2y_5) + 2ib_{4,0,0,0,0,0,2,0,0,0}^r(x_1^2x_4 - 2x_1y_1y_4 - x_4y_1^2)(x_1^2y_4 + 2x_1x_4y_1 - y_1^2y_4) + \\
& b_{4,0,0,0,0,0,2,0,0,0}^r(x_1^2x_4 - x_1^2y_4 - 2x_1x_4y_1 - 2x_1y_1y_4 - x_4y_1^2 + y_1^2y_4)(x_1^2x_4 + x_1^2y_4 + \\
& 2x_1x_4y_1 - 2x_1y_1y_4 - x_4y_1^2 - y_1^2y_4) + 2ib_{4,0,0,0,2,0,0,0,0,0}^r(x_1^2x_3 - 2x_1y_1y_3 - x_3y_1^2)(x_1^2y_3 + \\
& 2x_1x_3y_1 - y_1^2y_3) + b_{4,0,0,0,2,0,0,0,0,0}^r(x_1^2x_3 - x_1^2y_3 - 2x_1x_3y_1 - 2x_1y_1y_3 - x_3y_1^2 + \\
& y_1^2y_3)(x_1^2x_3 + x_1^2y_3 + 2x_1x_3y_1 - 2x_1y_1y_3 - x_3y_1^2 - y_1^2y_3)
\end{aligned}$$

$$\begin{aligned}
H_{-+}^{(6)} = & b_{-1,0,-1,0,-2,0,-2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + \\
& x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 - 2x_1x_3x_4^2y_2y_3 + 2x_1x_3y_2y_3y_4^2 + 2x_1x_4y_2y_3^2y_4 - \\
& 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 - x_3^2x_4^2y_1y_2 + \\
& x_3^2y_1y_2y_4^2 + 4x_3x_4y_1y_2y_3y_4 + x_4^2y_1y_2y_3^2 - y_1y_2y_3^2y_4^2) + \\
& ib_{-1,0,-1,0,-2,0,-2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 + \\
& x_1x_3^2x_4^2y_2 - x_1x_3^2y_2y_4^2 - 4x_1x_3x_4y_2y_3y_4 - x_1x_4^2y_2y_3^2 + x_1y_2y_3^2y_4^2 + \\
& x_2x_3^2x_4^2y_1 - x_2x_3^2y_1y_4^2 - 4x_2x_3x_4y_1y_3y_4 - x_2x_4^2y_1y_3^2 + x_2y_1y_3^2y_4^2 - \\
& 2x_3^2x_4y_1y_2y_4 - 2x_3x_4^2y_1y_2y_3 + 2x_3y_1y_2y_3y_4^2 + 2x_4y_1y_2y_3^2y_4) + \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + \\
& x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 + 2x_1x_3y_2y_3y_5^2 - 2x_1x_5y_2y_3^2y_5 + \\
& 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 - 2x_2x_5y_1y_3^2y_5 - x_3^2x_5^2y_1y_2 + \\
& x_3^2y_1y_2y_5^2 - 4x_3x_5y_1y_2y_3y_5 + x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) - \\
& ib_{-1,0,-1,0,-2,0,0,0,2,0}^r(2x_1x_2x_3^2x_5y_5 - 2x_1x_2x_3x_5^2y_3 + 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 - \\
& x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 - 4x_1x_3x_5y_2y_3y_5 + x_1x_5^2y_2y_3^2 - x_1y_2y_3^2y_5^2 - \\
& x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 - 4x_2x_3x_5y_1y_3y_5 + x_2x_5^2y_1y_3^2 - x_2y_1y_3^2y_5^2 - \\
& 2x_3^2x_5y_1y_2y_5 + 2x_3x_5^2y_1y_2y_3 - 2x_3y_1y_2y_3y_5^2 + 2x_5y_1y_2y_3^2y_5) + \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r(x_1x_2x_3^4 - 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 - 4x_1x_3^3y_2y_3 + 4x_1x_3y_2y_3^3 - \\
& 4x_2x_3^3y_1y_3 + 4x_2x_3y_1y_3^3 - x_3^4y_1y_2 + 6x_3^2y_1y_2y_3^2 - y_1y_2y_3^4) + \\
& ib_{-1,0,-1,0,-4,0,0,0,0,0}^r(4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 + x_1x_3^4y_2 - 6x_1x_3^2y_2y_3^2 + x_1y_2y_3^4 + \\
& x_2x_3^4y_1 - 6x_2x_3^2y_1y_3^2 + x_2y_1y_3^4 - 4x_3^3y_1y_2y_3 + 4x_3y_1y_2y_3^3) + \\
& b_{-1,0,-1,0,0,0,0,-2,0,2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 + 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + \\
& x_1x_2y_4^2y_5^2 + 2x_1x_4^2x_5y_2y_5 - 2x_1x_4x_5^2y_2y_4 + 2x_1x_4y_2y_4y_5^2 - 2x_1x_5y_2y_4^2y_5 +
\end{aligned}$$

$$\begin{aligned}
& 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 - x_4^2x_5^2y_1y_2 + \\
& x_4^2y_1y_2y_5^2 - 4x_4x_5y_1y_2y_4y_5 + x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) - \\
& ib_{-1,0,-1,0,0,0,-2,0,2,0}^r(2x_1x_2x_4^2x_5y_5 - 2x_1x_2x_4x_5^2y_4 + 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 - \\
& x_1x_4^2x_5^2y_2 + x_1x_4^2y_2y_5^2 - 4x_1x_4x_5y_2y_4y_5 + x_1x_5^2y_2y_4^2 - x_1y_2y_4^2y_5^2 - \\
& x_2x_4^2x_5^2y_1 + x_2x_4^2y_1y_5^2 - 4x_2x_4x_5y_1y_4y_5 + x_2x_5^2y_1y_4^2 - x_2y_1y_4^2y_5^2 - \\
& 2x_4^2x_5y_1y_2y_5 + 2x_4x_5^2y_1y_2y_4 - 2x_4y_1y_2y_4y_5^2 + 2x_5y_1y_2y_4^2y_5) + \\
& b_{-1,0,-1,0,0,0,-4,0,0,0}^r(x_1x_2x_4^4 - 6x_1x_2x_4^2y_4^2 + x_1x_2y_4^4 - 4x_1x_4^3y_2y_4 + 4x_1x_4y_2y_4^3 - \\
& 4x_2x_4^3y_1y_4 + 4x_2x_4y_1y_4^3 - x_4^4y_1y_2 + 6x_4^2y_1y_2y_4^2 - y_1y_2y_4^4) + \\
& ib_{-1,0,-1,0,0,0,-4,0,0,0}^r(4x_1x_2x_4^3y_4 - 4x_1x_2x_4y_4^3 + x_1x_4^4y_2 - 6x_1x_4^2y_2y_4^2 + x_1y_2y_4^4 + \\
& x_2x_4^4y_1 - 6x_2x_4^2y_1y_4^2 + x_2y_1y_4^4 - 4x_4^3y_1y_2y_4 + 4x_4y_1y_2y_4^3) + b_{-1,0,-1,0,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) + \\
& ib_{-1,0,-1,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - \\
& 2x_5y_1y_2y_5) + b_{-1,0,-1,0,0,0,0,0,4,0}^r(x_1x_2x_5^4 - 6x_1x_2x_5^2y_5^2 + x_1x_2y_5^4 + 4x_1x_5^3y_2y_5 - \\
& 4x_1x_5y_2y_5^3 + 4x_2x_5^3y_1y_5 - 4x_2x_5y_1y_5^3 - x_5^4y_1y_2 + 6x_5^2y_1y_2y_5^2 - y_1y_2y_5^4) - \\
& ib_{-1,0,-1,0,0,0,0,0,4,0}^r(4x_1x_2x_5^3y_5 - 4x_1x_2x_5y_5^3 - x_1x_5^4y_2 + 6x_1x_5^2y_2y_5^2 - x_1y_2y_5^4 - \\
& x_2x_5^4y_1 + 6x_2x_5^2y_1y_5^2 - x_2y_1y_5^4 - 4x_5^3y_1y_2y_5 + 4x_5y_1y_2y_5^3) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) + \\
& ib_{-1,0,-1,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - \\
& 2x_5y_1y_2y_5) + b_{-1,0,-1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - \\
& x_4^2y_1y_2 + y_1y_2y_4^2) - ib_{-1,0,-1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - \\
& x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,0,-1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + \\
& 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) - ib_{-1,0,-1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_4y_4 - \\
& x_1x_4^2y_2 + x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) + \\
& ib_{-1,0,-1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - \\
& 2x_5y_1y_2y_5) + b_{-1,0,-1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - \\
& x_4^2y_1y_2 + y_1y_2y_4^2) - ib_{-1,0,-1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - \\
& x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,0,-1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) - ib_{-1,0,-1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_3y_3 - \\
& x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,0,-1,0,2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) - \\
& ib_{-1,0,-1,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - \\
& 2x_3y_1y_2y_3) + b_{-1,0,-1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - \\
& x_3^2y_1y_2 + y_1y_2y_3^2) - ib_{-1,0,-1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - \\
& x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,0,-1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - \\
& 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) + ib_{-1,0,-1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 + \\
& x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) + b_{-1,0,-1,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) - \\
& ib_{-1,0,-1,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - \\
& 2x_4y_1y_2y_4) + b_{-1,0,-1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - \\
& x_3^2y_1y_2 + y_1y_2y_3^2) - ib_{-1,0,-1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - \\
& x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,0,-2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 - \\
& 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 - \\
& x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 - \\
& 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 + \\
& x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) + ib_{-1,0,-2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 + \\
& x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 + \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 + \\
& x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 + \\
& 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + \\
& x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 + \\
& x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 - \\
& 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 - \\
& x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + \\
& 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 - \\
& x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) + ib_{-1,0,-2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 - \\
& x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 + \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 + \\
& x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - \\
& 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 - \\
& x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 - \\
& x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 - \\
& 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 + \\
& x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + \\
& 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 + 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 - \\
& x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) - ib_{-1,0,-2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 + \\
& x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 + \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 - \\
& x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - \\
& 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 - \\
& x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + \\
& y_1y_2^3) + ib_{-1,0,-3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + \\
& b_{-1,0,-3,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) + ib_{-1,0,-3,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + b_{-1,0,-3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2^3 - \\
& 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) + ib_{-1,0,-3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - \\
& 3x_2y_1y_2^2) + b_{-1,0,-3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) + \\
& ib_{-1,0,-3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + b_{-1,0,0,0,-1,0,-1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) - ib_{-1,0,0,0,-1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - \\
& x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + \\
& x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{-1,0,0,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,0,-1,0,-3,0,-1,0}^r(x_1x_3x_4^3x_5 - 3x_1x_3x_4^2y_4y_5 -
\end{aligned}$$

$$\begin{aligned}
& 3x_1x_3x_4x_5y_4^2 + x_1x_3y_4^3y_5 - x_1x_4^3y_3y_5 - 3x_1x_4^2x_5y_3y_4 + 3x_1x_4y_3y_4^2y_5 + \\
& x_1x_5y_3y_4^3 - x_3x_4^3y_1y_5 - 3x_3x_4^2x_5y_1y_4 + 3x_3x_4y_1y_4^2y_5 + x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 + \\
& 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 - y_1y_3y_4^3y_5) + ib_{-1,0,0,0,-1,0,-3,0,-1,0}^r(x_1x_3x_4^3y_5 + \\
& 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 - x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 - 3x_1x_4^2y_3y_4y_5 - \\
& 3x_1x_4x_5y_3y_4^2 + x_1y_3y_4^3y_5 + x_3x_4^3x_5y_1 - 3x_3x_4^2y_1y_4y_5 - 3x_3x_4x_5y_1y_4^2 + \\
& x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 - 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3) + \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 + 3x_1x_3x_5^2y_4y_5 - x_1x_3y_4y_5^3 - \\
& 3x_1x_4x_5^2y_3y_5 + x_1x_4y_3y_5^3 + x_1x_5^3y_3y_4 - 3x_1x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_1y_5 + \\
& x_3x_4y_1y_5^3 + x_3x_5^3y_1y_4 - 3x_3x_5y_1y_4y_5^2 - x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 - \\
& 3x_5^2y_1y_3y_4y_5 + y_1y_3y_4y_5^3) + ib_{-1,0,0,0,-1,0,1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - \\
& x_1x_3x_5^3y_4 + 3x_1x_3x_5y_4y_5^2 + x_1x_4x_5^3y_3 - 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - \\
& x_1y_3y_4y_5^3 + x_3x_4x_5^3y_1 - 3x_3x_4x_5y_1y_5^2 + 3x_3x_5^2y_1y_4y_5 - x_3y_1y_4y_5^3 - \\
& 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 + x_5^3y_1y_3y_4 - 3x_5y_1y_3y_4y_5^2) + b_{-1,0,0,0,-1,0,1,0,3,0}^r(x_1x_3x_4x_5^3 - \\
& 3x_1x_3x_4x_5y_5^2 - 3x_1x_3x_5^2y_4y_5 + x_1x_3y_4y_5^3 + 3x_1x_4x_5^2y_3y_5 - x_1x_4y_3y_5^3 + \\
& x_1x_5^3y_3y_4 - 3x_1x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_1y_5 - x_3x_4y_1y_5^3 + x_3x_5^3y_1y_4 - \\
& 3x_3x_5y_1y_4y_5^2 - x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 + 3x_5^2y_1y_3y_4y_5 - y_1y_3y_4y_5^3) - \\
& ib_{-1,0,0,0,-1,0,1,0,3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 + x_1x_3x_5^3y_4 - 3x_1x_3x_5y_4y_5^2 - \\
& x_1x_4x_5^3y_3 + 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 - x_3x_4x_5^3y_1 + \\
& 3x_3x_4x_5y_1y_5^2 + 3x_3x_5^2y_1y_4y_5 - x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 - \\
& x_5^3y_1y_3y_4 + 3x_5y_1y_3y_4y_5^2) + b_{-1,0,0,0,-1,0,3,0,-1,0}^r(x_1x_3x_4^3x_5 + 3x_1x_3x_4^2y_4y_5 - \\
& 3x_1x_3x_4x_5y_4^2 - x_1x_3y_4^3y_5 - x_1x_4^3y_3y_5 + 3x_1x_4^2x_5y_3y_4 + 3x_1x_4y_3y_4^2y_5 - \\
& x_1x_5y_3y_4^3 - x_3x_4^3y_1y_5 + 3x_3x_4^2x_5y_1y_4 + 3x_3x_4y_1y_4^2y_5 - x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 - \\
& 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 + y_1y_3y_4^3y_5) + ib_{-1,0,0,0,-1,0,3,0,-1,0}^r(x_1x_3x_4^3y_5 - \\
& 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 + x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 + 3x_1x_4^2y_3y_4y_5 - \\
& 3x_1x_4x_5y_3y_4^2 - x_1y_3y_4^3y_5 + x_3x_4^3x_5y_1 + 3x_3x_4^2y_1y_4y_5 - 3x_3x_4x_5y_1y_4^2 - \\
& x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 + 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 - x_5y_1y_3y_4^3) + \\
& b_{-1,0,0,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - \\
& x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - ib_{-1,0,0,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - \\
& x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{-1,0,0,0,-3,0,-1,0,-1,0}^r(x_1x_3^3x_4x_5 - x_1x_3^3y_4y_5 - 3x_1x_3^2x_4y_3y_5 - 3x_1x_3^2x_5y_3y_4 - \\
& 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 + x_1x_4y_3^3y_5 + x_1x_5y_3^3y_4 - x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 - \\
& 3x_3^2x_4x_5y_1y_3 + 3x_3^2y_1y_3y_4y_5 + 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 + x_4x_5y_1y_3^3 - \\
& y_1y_3^3y_4y_5) + ib_{-1,0,0,0,-3,0,-1,0,-1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 + 3x_1x_3^2x_4x_5y_3 - \\
& 3x_1x_3^2y_3y_4y_5 - 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 + x_1y_3^3y_4y_5 + \\
& x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 - 3x_3^2x_4y_1y_3y_5 - 3x_3^2x_5y_1y_3y_4 - 3x_3x_4x_5y_1y_3^2 + \\
& 3x_3y_1y_3^2y_4y_5 + x_4y_1y_3^3y_5 + x_5y_1y_3^3y_4) + b_{-1,0,0,0,-3,0,1,0,1,0}^r(x_1x_3^3x_4x_5 - x_1x_3^3y_4y_5 + \\
& 3x_1x_3^2x_4y_3y_5 + 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 - x_1x_4y_3^3y_5 - \\
& x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 + x_3^3x_5y_1y_4 - 3x_3^2x_4x_5y_1y_3 + 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 - 3x_3x_5y_1y_3^2y_4 + x_4x_5y_1y_3^3 - y_1y_3^3y_4y_5) - \\
& ib_{-1,0,0,0,-3,0,1,0,1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 - 3x_1x_3^2x_4x_5y_3 + 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 + x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 + x_3^3y_1y_4y_5 - \\
& 3x_3^2x_4y_1y_3y_5 - 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 - 3x_3y_1y_3^2y_4y_5 + x_4y_1y_3^3y_5 +
\end{aligned}$$

$$\begin{aligned}
& x_5 y_1 y_3^3 y_4) + b_{-1,0,0,0,1,0,-1,0,-3,0}^r (x_1 x_3 x_4 x_5^3 - 3x_1 x_3 x_4 x_5 y_5^2 - 3x_1 x_3 x_5^2 y_4 y_5 + x_1 x_3 y_4 y_5^3 + \\
& 3x_1 x_4 x_5^2 y_3 y_5 - x_1 x_4 y_3 y_5^3 + x_1 x_5^3 y_3 y_4 - 3x_1 x_5 y_3 y_4 y_5^2 - 3x_3 x_4 x_5^2 y_1 y_5 + \\
& x_3 x_4 y_1 y_5^3 - x_3 x_5^3 y_1 y_4 + 3x_3 x_5 y_1 y_4 y_5^2 + x_4 x_5^3 y_1 y_3 - 3x_4 x_5 y_1 y_3 y_5^2 - \\
& 3x_5^2 y_1 y_3 y_4 y_5 + y_1 y_3 y_4 y_5^3) + i b_{-1,0,0,0,1,0,-1,0,-3,0}^r (3x_1 x_3 x_4 x_5^2 y_5 - x_1 x_3 x_4 y_5^3 + \\
& x_1 x_3 x_5^3 y_4 - 3x_1 x_3 x_5 y_4 y_5^2 - x_1 x_4 x_5^3 y_3 + 3x_1 x_4 x_5 y_3 y_5^2 + 3x_1 x_5^2 y_3 y_4 y_5 - \\
& x_1 y_3 y_4 y_5^3 + x_3 x_4 x_5^3 y_1 - 3x_3 x_4 x_5 y_1 y_5^2 - 3x_3 x_5^2 y_1 y_4 y_5 + x_3 y_1 y_4 y_5^3 + \\
& 3x_4 x_5^2 y_1 y_3 y_5 - x_4 y_1 y_3 y_5^3 + x_5^3 y_1 y_3 y_4 - 3x_5 y_1 y_3 y_4 y_5^2) + b_{-1,0,0,0,1,0,-1,0,3,0}^r (x_1 x_3 x_4 x_5^3 - \\
& 3x_1 x_3 x_4 x_5 y_5^2 + 3x_1 x_3 x_5^2 y_4 y_5 - x_1 x_3 y_4 y_5^3 - 3x_1 x_4 x_5^2 y_3 y_5 + x_1 x_4 y_3 y_5^3 + \\
& x_1 x_5^3 y_3 y_4 - 3x_1 x_5 y_3 y_4 y_5^2 + 3x_3 x_4 x_5^2 y_1 y_5 - x_3 x_4 y_1 y_5^3 - x_3 x_5^3 y_1 y_4 + \\
& 3x_3 x_5 y_1 y_4 y_5^2 + x_4 x_5^3 y_1 y_3 - 3x_4 x_5 y_1 y_3 y_5^2 + 3x_5^2 y_1 y_3 y_4 y_5 - y_1 y_3 y_4 y_5^3) - \\
& i b_{-1,0,0,0,1,0,-1,0,3,0}^r (3x_1 x_3 x_4 x_5^2 y_5 - x_1 x_3 x_4 y_5^3 - x_1 x_3 x_5^3 y_4 + 3x_1 x_3 x_5 y_4 y_5^2 + \\
& x_1 x_4 x_5^3 y_3 - 3x_1 x_4 x_5 y_3 y_5^2 + 3x_1 x_5^2 y_3 y_4 y_5 - x_1 y_3 y_4 y_5^3 - x_3 x_4 x_5^3 y_1 + \\
& 3x_3 x_4 x_5 y_1 y_5^2 - 3x_3 x_5^2 y_1 y_4 y_5 + x_3 y_1 y_4 y_5^3 + 3x_4 x_5^2 y_1 y_3 y_5 - x_4 y_1 y_3 y_5^3 - \\
& x_5^3 y_1 y_3 y_4 + 3x_5 y_1 y_3 y_4 y_5^2) + b_{-1,0,0,0,1,0,-3,0,1,0}^r (x_1 x_3 x_4^3 x_5 + 3x_1 x_3 x_4^2 y_4 y_5 - \\
& 3x_1 x_3 x_4 x_5 y_4^2 - x_1 x_3 y_4^3 y_5 - x_1 x_4^3 y_3 y_5 + 3x_1 x_4^2 x_5 y_3 y_4 + 3x_1 x_4 y_3 y_4^2 y_5 - \\
& x_1 x_5 y_3 y_4^3 + x_3 x_4^3 y_1 y_5 - 3x_3 x_4^2 x_5 y_1 y_4 - 3x_3 x_4 y_1 y_4^2 y_5 + x_3 x_5 y_1 y_4^3 + x_4^3 x_5 y_1 y_3 + \\
& 3x_4^2 y_1 y_3 y_4 y_5 - 3x_4 x_5 y_1 y_3 y_4^2 - y_1 y_3 y_4^3 y_5) - i b_{-1,0,0,0,1,0,-3,0,1,0}^r (x_1 x_3 x_4^3 y_5 - \\
& 3x_1 x_3 x_4^2 x_5 y_4 - 3x_1 x_3 x_4 y_4^2 y_5 + x_1 x_3 x_5 y_4^3 + x_1 x_4^3 x_5 y_3 + 3x_1 x_4^2 y_3 y_4 y_5 - \\
& 3x_1 x_4 x_5 y_3 y_4^2 - x_1 y_3 y_4^3 y_5 - x_3 x_4^3 x_5 y_1 - 3x_3 x_4^2 y_1 y_4 y_5 + 3x_3 x_4 x_5 y_1 y_4^2 + \\
& x_3 y_1 y_4^3 y_5 + x_4^3 y_1 y_3 y_5 - 3x_4^2 x_5 y_1 y_3 y_4 - 3x_4 y_1 y_3 y_4^2 y_5 + x_5 y_1 y_3 y_4^3) + \\
& b_{-1,0,0,0,1,0,1,0,-1,1}^r (x_5^2 + y_5^2)(x_1 x_3 x_4 x_5 + x_1 x_3 y_4 y_5 + x_1 x_4 y_3 y_5 - x_1 x_5 y_3 y_4 - x_3 x_4 y_1 y_5 + \\
& x_3 x_5 y_1 y_4 + x_4 x_5 y_1 y_3 + y_1 y_3 y_4 y_5) + i b_{-1,0,0,0,1,0,1,0,-1,1}^r (x_5^2 + y_5^2)(x_1 x_3 x_4 y_5 - x_1 x_3 x_5 y_4 - \\
& x_1 x_4 x_5 y_3 - x_1 y_3 y_4 y_5 + x_3 x_4 x_5 y_1 + x_3 y_1 y_4 y_5 + x_4 y_1 y_3 y_5 - x_5 y_1 y_3 y_4) + \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r (x_4^2 + y_4^2)(x_1 x_3 x_4 x_5 + x_1 x_3 y_4 y_5 + x_1 x_4 y_3 y_5 - x_1 x_5 y_3 y_4 - x_3 x_4 y_1 y_5 + \\
& x_3 x_5 y_1 y_4 + x_4 x_5 y_1 y_3 + y_1 y_3 y_4 y_5) + i b_{-1,0,0,0,1,0,1,1,-1,0}^r (x_4^2 + y_4^2)(x_1 x_3 x_4 y_5 - x_1 x_3 x_5 y_4 - \\
& x_1 x_4 x_5 y_3 - x_1 y_3 y_4 y_5 + x_3 x_4 x_5 y_1 + x_3 y_1 y_4 y_5 + x_4 y_1 y_3 y_5 - x_5 y_1 y_3 y_4) + \\
& b_{-1,0,0,0,1,0,3,0,1,0}^r (x_1 x_3 x_4^3 x_5 - 3x_1 x_3 x_4^2 y_4 y_5 - 3x_1 x_3 x_4 x_5 y_4^2 + x_1 x_3 y_4^3 y_5 - x_1 x_4^3 y_3 y_5 - \\
& 3x_1 x_4^2 x_5 y_3 y_4 + 3x_1 x_4 y_3 y_4^2 y_5 + x_1 x_5 y_3 y_4^3 + x_3 x_4^3 y_1 y_5 + 3x_3 x_4^2 x_5 y_1 y_4 - \\
& 3x_3 x_4 y_1 y_4^2 y_5 - x_3 x_5 y_1 y_4^3 + x_4^3 x_5 y_1 y_3 - 3x_4^2 y_1 y_3 y_4 y_5 - 3x_4 x_5 y_1 y_3 y_4^2 + \\
& y_1 y_3 y_4^3 y_5) - i b_{-1,0,0,0,1,0,3,0,1,0}^r (x_1 x_3 x_4^3 y_5 + 3x_1 x_3 x_4^2 x_5 y_4 - 3x_1 x_3 x_4 y_4^2 y_5 - \\
& x_1 x_3 x_5 y_4^3 + x_1 x_4^3 x_5 y_3 - 3x_1 x_4^2 y_3 y_4 y_5 - 3x_1 x_4 x_5 y_3 y_4^2 + x_1 y_3 y_4^3 y_5 - x_3 x_4^3 x_5 y_1 + \\
& 3x_3 x_4^2 y_1 y_4 y_5 + 3x_3 x_4 x_5 y_1 y_4^2 - x_3 y_1 y_4^3 y_5 + x_4^3 y_1 y_3 y_5 + 3x_4^2 x_5 y_1 y_3 y_4 - \\
& 3x_4 y_1 y_3 y_4^2 y_5 - x_5 y_1 y_3 y_4^3) + b_{-1,0,0,0,1,1,1,0,-1,0}^r (x_3^2 + y_3^2)(x_1 x_3 x_4 x_5 + x_1 x_3 y_4 y_5 + \\
& x_1 x_4 y_3 y_5 - x_1 x_5 y_3 y_4 - x_3 x_4 y_1 y_5 + x_3 x_5 y_1 y_4 + x_4 x_5 y_1 y_3 + y_1 y_3 y_4 y_5) + \\
& i b_{-1,0,0,0,1,1,1,0,-1,0}^r (x_3^2 + y_3^2)(x_1 x_3 x_4 y_5 - x_1 x_3 x_5 y_4 - x_1 x_4 x_5 y_3 - x_1 y_3 y_4 y_5 + x_3 x_4 x_5 y_1 + \\
& x_3 y_1 y_4 y_5 + x_4 y_1 y_3 y_5 - x_5 y_1 y_3 y_4) + b_{-1,0,0,0,3,0,-1,0,-1,0}^r (x_1 x_3^3 x_4 x_5 - x_1 x_3^3 y_4 y_5 + \\
& 3x_1 x_3^2 x_4 y_3 y_5 + 3x_1 x_3^2 x_5 y_3 y_4 - 3x_1 x_3 x_4 x_5 y_3^2 + 3x_1 x_3 y_3^2 y_4 y_5 - x_1 x_4 y_3^3 y_5 - \\
& x_1 x_5 y_3^3 y_4 - x_3^3 x_4 y_1 y_5 - x_3^3 x_5 y_1 y_4 + 3x_3^2 x_4 x_5 y_1 y_3 - 3x_3^2 y_1 y_3 y_4 y_5 + \\
& 3x_3 x_4 y_1 y_3^2 y_5 + 3x_3 x_5 y_1 y_3^2 y_4 - x_4 x_5 y_1 y_3^3 + y_1 y_3^3 y_4 y_5) + \\
& i b_{-1,0,0,0,3,0,-1,0,-1,0}^r (x_1 x_3^3 x_4 y_5 + x_1 x_3^3 x_5 y_4 - 3x_1 x_3^2 x_4 x_5 y_3 + 3x_1 x_3^2 y_3 y_4 y_5 - \\
& 3x_1 x_3 x_4 y_3^2 y_5 - 3x_1 x_3 x_5 y_3^2 y_4 + x_1 x_4 x_5 y_3^3 - x_1 y_3^3 y_4 y_5 + x_3^3 x_4 x_5 y_1 - x_3^3 y_1 y_4 y_5 + \\
& 3x_3^2 x_4 y_1 y_3 y_5 + 3x_3^2 x_5 y_1 y_3 y_4 - 3x_3 x_4 x_5 y_1 y_3^2 + 3x_3 y_1 y_3^2 y_4 y_5 - x_4 y_1 y_3^3 y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_5 y_1 y_3^3 y_4) + b_{-1,0,0,0,3,0,1,0,1,0}^r (x_1 x_3^3 x_4 x_5 - x_1 x_3^3 y_4 y_5 - 3x_1 x_3^2 x_4 y_3 y_5 - 3x_1 x_3^2 x_5 y_3 y_4 - \\
& 3x_1 x_3 x_4 x_5 y_3^2 + 3x_1 x_3 y_3^2 y_4 y_5 + x_1 x_4 y_3^3 y_5 + x_1 x_5 y_3^3 y_4 + x_3^3 x_4 y_1 y_5 + x_3^3 x_5 y_1 y_4 + \\
& 3x_3^2 x_4 x_5 y_1 y_3 - 3x_3^2 y_1 y_3 y_4 y_5 - 3x_3 x_4 y_1 y_3^2 y_5 - 3x_3 x_5 y_1 y_3^2 y_4 - x_4 x_5 y_1 y_3^3 + \\
& y_1 y_3^3 y_4 y_5) - i b_{-1,0,0,0,3,0,1,0,1,0}^r (x_1 x_3^3 x_4 y_5 + x_1 x_3^3 x_5 y_4 + 3x_1 x_3^2 x_4 x_5 y_3 - \\
& 3x_1 x_3^2 y_3 y_4 y_5 - 3x_1 x_3 x_4 y_3^2 y_5 - 3x_1 x_3 x_5 y_3^2 y_4 - x_1 x_4 x_5 y_3^3 + x_1 y_3^3 y_4 y_5 - \\
& x_3^3 x_4 x_5 y_1 + x_3^3 y_1 y_4 y_5 + 3x_3^2 x_4 y_1 y_3 y_5 + 3x_3^2 x_5 y_1 y_3 y_4 + 3x_3 x_4 x_5 y_1 y_3^2 - \\
& 3x_3 y_1 y_3^2 y_4 y_5 - x_4 y_1 y_3^3 y_5 - x_5 y_1 y_3^3 y_4) + b_{-1,0,0,1,-1,0,-1,0,1,0}^r (x_2^2 + y_2^2)(x_1 x_3 x_4 x_5 + \\
& x_1 x_3 y_4 y_5 + x_1 x_4 y_3 y_5 - x_1 x_5 y_3 y_4 + x_3 x_4 y_1 y_5 - x_3 x_5 y_1 y_4 - x_4 x_5 y_1 y_3 - y_1 y_3 y_4 y_5) - \\
& i b_{-1,0,0,1,-1,0,-1,0,1,0}^r (x_2^2 + y_2^2)(x_1 x_3 x_4 y_5 - x_1 x_3 x_5 y_4 - x_1 x_4 x_5 y_3 - x_1 y_3 y_4 y_5 - x_3 x_4 x_5 y_1 - \\
& x_3 y_1 y_4 y_5 - x_4 y_1 y_3 y_5 + x_5 y_1 y_3 y_4) + b_{-1,0,0,1,1,0,1,0,-1,0}^r (x_2^2 + y_2^2)(x_1 x_3 x_4 x_5 + x_1 x_3 y_4 y_5 + \\
& x_1 x_4 y_3 y_5 - x_1 x_5 y_3 y_4 - x_3 x_4 y_1 y_5 + x_3 x_5 y_1 y_4 + x_4 x_5 y_1 y_3 + y_1 y_3 y_4 y_5) + \\
& i b_{-1,0,0,1,1,0,1,0,-1,0}^r (x_2^2 + y_2^2)(x_1 x_3 x_4 y_5 - x_1 x_3 x_5 y_4 - x_1 x_4 x_5 y_3 - x_1 y_3 y_4 y_5 + x_3 x_4 x_5 y_1 + \\
& x_3 y_1 y_4 y_5 + x_4 y_1 y_3 y_5 - x_5 y_1 y_3 y_4) + b_{-1,0,1,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_2 x_3^2 - x_1 x_2 y_3^2 + \\
& 2x_1 x_3 y_2 y_3 - 2x_2 x_3 y_1 y_3 + x_3^2 y_1 y_2 - y_1 y_2 y_3^2) + i b_{-1,0,1,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2)(2x_1 x_2 x_3 y_3 - \\
& x_1 x_3^2 y_2 + x_1 y_2 y_3^2 + x_2 x_3^2 y_1 - x_2 y_1 y_3^2 + 2x_3 y_1 y_2 y_3) + b_{-1,0,1,0,-2,0,0,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_1 x_2 x_3^2 - x_1 x_2 y_3^2 + 2x_1 x_3 y_2 y_3 - 2x_2 x_3 y_1 y_3 + x_3^2 y_1 y_2 - y_1 y_2 y_3^2) + \\
& i b_{-1,0,1,0,-2,0,0,1,0,0}^r (x_4^2 + y_4^2)(2x_1 x_2 x_3 y_3 - x_1 x_3^2 y_2 + x_1 y_2 y_3^2 + x_2 x_3^2 y_1 - x_2 y_1 y_3^2 + \\
& 2x_3 y_1 y_2 y_3) + b_{-1,0,1,0,-2,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_2 x_3^2 - x_1 x_2 y_3^2 + 2x_1 x_3 y_2 y_3 - 2x_2 x_3 y_1 y_3 + \\
& x_3^2 y_1 y_2 - y_1 y_2 y_3^2) + i b_{-1,0,1,0,-2,1,0,0,0,0}^r (x_3^2 + y_3^2)(2x_1 x_2 x_3 y_3 - x_1 x_3^2 y_2 + x_1 y_2 y_3^2 + \\
& x_2 x_3^2 y_1 - x_2 y_1 y_3^2 + 2x_3 y_1 y_2 y_3) + b_{-1,0,1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_2 x_4^2 - x_1 x_2 y_4^2 + \\
& 2x_1 x_4 y_2 y_4 - 2x_2 x_4 y_1 y_4 + x_4^2 y_1 y_2 - y_1 y_2 y_4^2) + i b_{-1,0,1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2)(2x_1 x_2 x_4 y_4 - \\
& x_1 x_4^2 y_2 + x_1 y_2 y_4^2 + x_2 x_4^2 y_1 - x_2 y_1 y_4^2 + 2x_4 y_1 y_2 y_4) + b_{-1,0,1,0,0,0,-2,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_1 x_2 x_4^2 - x_1 x_2 y_4^2 + 2x_1 x_4 y_2 y_4 - 2x_2 x_4 y_1 y_4 + x_4^2 y_1 y_2 - y_1 y_2 y_4^2) + \\
& i b_{-1,0,1,0,0,0,-2,1,0,0}^r (x_4^2 + y_4^2)(2x_1 x_2 x_4 y_4 - x_1 x_4^2 y_2 + x_1 y_2 y_4^2 + x_2 x_4^2 y_1 - x_2 y_1 y_4^2 + \\
& 2x_4 y_1 y_2 y_4) + b_{-1,0,1,0,0,0,0,0,-4,0}^r (x_1 x_2 x_5^4 - 6x_1 x_2 x_5^2 y_5^2 + x_1 x_2 y_5^4 + 4x_1 x_5^3 y_2 y_5 - \\
& 4x_1 x_5 y_2 y_5^3 - 4x_2 x_5^3 y_1 y_5 + 4x_2 x_5 y_1 y_5^3 + x_5^4 y_1 y_2 - 6x_5^2 y_1 y_2 y_5^2 + y_1 y_2 y_5^4) + \\
& i b_{-1,0,1,0,0,0,0,0,-4,0}^r (4x_1 x_2 x_5^3 y_5 - 4x_1 x_2 x_5 y_5^3 - x_1 x_5^4 y_2 + 6x_1 x_5^2 y_2 y_5^2 - x_1 y_2 y_5^4 + \\
& x_2 x_5^4 y_1 - 6x_2 x_5^2 y_1 y_5^2 + x_2 y_1 y_5^4 + 4x_5^3 y_1 y_2 y_5 - 4x_5 y_1 y_2 y_5^3) + b_{-1,0,1,0,0,0,0,0,2,1}^r (x_5^2 + \\
& y_5^2)(x_1 x_2 x_5^2 - x_1 x_2 y_5^2 - 2x_1 x_5 y_2 y_5 + 2x_2 x_5 y_1 y_5 + x_5^2 y_1 y_2 - y_1 y_2 y_5^2) - \\
& i b_{-1,0,1,0,0,0,0,0,2,1}^r (x_5^2 + y_5^2)(2x_1 x_2 x_5 y_5 + x_1 x_5^2 y_2 - x_1 y_2 y_5^2 - x_2 x_5^2 y_1 + x_2 y_1 y_5^2 + \\
& 2x_5 y_1 y_2 y_5) + b_{-1,0,1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2)(x_1 x_2 x_5^2 - x_1 x_2 y_5^2 - 2x_1 x_5 y_2 y_5 + 2x_2 x_5 y_1 y_5 + \\
& x_5^2 y_1 y_2 - y_1 y_2 y_5^2) - i b_{-1,0,1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2)(2x_1 x_2 x_5 y_5 + x_1 x_5^2 y_2 - x_1 y_2 y_5^2 - \\
& x_2 x_5^2 y_1 + x_2 y_1 y_5^2 + 2x_5 y_1 y_2 y_5) + b_{-1,0,1,0,0,0,2,0,-2,0}^r (x_1 x_2 x_4^2 x_5^2 - x_1 x_2 x_4^2 y_5^2 + \\
& 4x_1 x_2 x_4 x_5 y_4 y_5 - x_1 x_2 x_5^2 y_4^2 + x_1 x_2 y_4^2 y_5^2 + 2x_1 x_4^2 x_5 y_2 y_5 - 2x_1 x_4 x_5^2 y_2 y_4 + \\
& 2x_1 x_4 y_2 y_4 y_5^2 - 2x_1 x_5 y_2 y_4^2 y_5 - 2x_2 x_4^2 x_5 y_1 y_5 + 2x_2 x_4 x_5^2 y_1 y_4 - 2x_2 x_4 y_1 y_4 y_5^2 + \\
& 2x_2 x_5 y_1 y_4^2 y_5 + x_4^2 x_5^2 y_1 y_2 - x_4^2 y_1 y_2 y_5^2 + 4x_4 x_5 y_1 y_2 y_4 y_5 - x_5^2 y_1 y_2 y_4^2 + \\
& y_1 y_2 y_4^2 y_5^2) + i b_{-1,0,1,0,0,0,2,0,-2,0}^r (2x_1 x_2 x_4^2 x_5 y_5 - 2x_1 x_2 x_4 x_5^2 y_4 + 2x_1 x_2 x_4 y_4 y_5^2 - \\
& 2x_1 x_2 x_5 y_4^2 y_5 - x_1 x_4^2 x_5^2 y_2 + x_1 x_4^2 y_2 y_5^2 - 4x_1 x_4 x_5 y_2 y_4 y_5 + x_1 x_5^2 y_2 y_4^2 - \\
& x_1 y_2 y_4^2 y_5^2 + x_2 x_4^2 x_5^2 y_1 - x_2 x_4^2 y_1 y_5^2 + 4x_2 x_4 x_5 y_1 y_4 y_5 - x_2 x_5^2 y_1 y_4^2 + \\
& x_2 y_1 y_4^2 y_5^2 + 2x_4^2 x_5 y_1 y_2 y_5 - 2x_4 x_5^2 y_1 y_2 y_4 + 2x_4 y_1 y_2 y_4 y_5^2 - 2x_5 y_1 y_2 y_4^2 y_5) + \\
& b_{-1,0,1,0,0,0,4,0,0,0}^r (x_1 x_2 x_4^4 - 6x_1 x_2 x_4^2 y_4^2 + x_1 x_2 y_4^4 - 4x_1 x_4^3 y_2 y_4 + 4x_1 x_4 y_2 y_4^3 + \\
& 4x_2 x_4^3 y_1 y_4 - 4x_2 x_4 y_1 y_4^3 + x_4^4 y_1 y_2 - 6x_4^2 y_1 y_2 y_4^2 + y_1 y_2 y_4^4) -
\end{aligned}$$

$$\begin{aligned}
& ib_{-1,0,1,0,0,0,4,0,0,0}^r(4x_1x_2x_4^3y_4 - 4x_1x_2x_4y_4^3 + x_1x_4^4y_2 - 6x_1x_4^2y_2y_4^2 + x_1y_2y_4^4 - \\
& x_2x_4^4y_1 + 6x_2x_4^2y_1y_4^2 - x_2y_1y_4^4 + 4x_4^3y_1y_2y_4 - 4x_4y_1y_2y_4^3) + b_{-1,0,1,0,0,1,-2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) + \\
& ib_{-1,0,1,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) + b_{-1,0,1,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) - ib_{-1,0,1,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 - \\
& x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,0,1,0,2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + \\
& 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 + \\
& 2x_1x_3y_2y_3y_5^2 - 2x_1x_5y_2y_3^2y_5 - 2x_2x_3^2x_5y_1y_5 + 2x_2x_3x_5^2y_1y_3 - 2x_2x_3y_1y_3y_5^2 + \\
& 2x_2x_5y_1y_3^2y_5 + x_3^2x_5^2y_1y_2 - x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 - x_5^2y_1y_2y_3^2 + \\
& y_1y_2y_3^2y_5^2) + ib_{-1,0,1,0,2,0,0,0,-2,0}^r(2x_1x_2x_3^2x_5y_5 - 2x_1x_2x_3x_5^2y_3 + 2x_1x_2x_3y_3y_5^2 - \\
& 2x_1x_2x_5y_3^2y_5 - x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 - 4x_1x_3x_5y_2y_3y_5 + x_1x_5^2y_2y_3^2 - \\
& x_1y_2y_3^2y_5^2 + x_2x_3^2x_5^2y_1 - x_2x_3^2y_1y_5^2 + 4x_2x_3x_5y_1y_3y_5 - x_2x_5^2y_1y_3^2 + \\
& x_2y_1y_3^2y_5^2 + 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 - 2x_5y_1y_2y_3^2y_5) + \\
& b_{-1,0,1,0,2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + \\
& x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 - 2x_1x_3x_4^2y_2y_3 + 2x_1x_3y_2y_3y_4^2 + 2x_1x_4y_2y_3^2y_4 + \\
& 2x_2x_3^2x_4y_1y_4 + 2x_2x_3x_4^2y_1y_3 - 2x_2x_3y_1y_3y_4^2 - 2x_2x_4y_1y_3^2y_4 + x_3^2x_4^2y_1y_2 - \\
& x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 - x_4^2y_1y_2y_3^2 + y_1y_2y_3^2y_4^2) - \\
& ib_{-1,0,1,0,2,0,2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 + \\
& x_1x_3^2x_4^2y_2 - x_1x_3^2y_2y_4^2 - 4x_1x_3x_4y_2y_3y_4 - x_1x_4^2y_2y_3^2 + x_1y_2y_3^2y_4^2 - \\
& x_2x_3^2x_4^2y_1 + x_2x_3^2y_1y_4^2 + 4x_2x_3x_4y_1y_3y_4 + x_2x_4^2y_1y_3^2 - x_2y_1y_3^2y_4^2 + \\
& 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - 2x_3y_1y_2y_3y_4^2 - 2x_4y_1y_2y_3^2y_4) + \\
& b_{-1,0,1,0,4,0,0,0,0,0}^r(x_1x_2x_3^4 - 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 - 4x_1x_3^3y_2y_3 + 4x_1x_3y_2y_3^3 + \\
& 4x_2x_3^3y_1y_3 - 4x_2x_3y_1y_3^3 + x_3^4y_1y_2 - 6x_3^2y_1y_2y_3^2 + y_1y_2y_3^4) - \\
& ib_{-1,0,1,0,4,0,0,0,0,0}^r(4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 + x_1x_3^4y_2 - 6x_1x_3^2y_2y_3^2 + x_1y_2y_3^4 - \\
& x_2x_3^4y_1 + 6x_2x_3^2y_1y_3^2 - x_2y_1y_3^4 + 4x_3^3y_1y_2y_3 - 4x_3y_1y_2y_3^3) + b_{-1,0,1,1,-2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) + \\
& ib_{-1,0,1,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + \\
& 2x_3y_1y_2y_3) + b_{-1,0,1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + \\
& x_4^2y_1y_2 - y_1y_2y_4^2) + ib_{-1,0,1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 + \\
& x_2x_4^2y_1 - x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{-1,0,1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - \\
& 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) - ib_{-1,0,1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 + \\
& x_1x_5^2y_2 - x_1y_2y_5^2 - x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,0,2,0,-1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - \\
& x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + \\
& 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 + \\
& x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + \\
& 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + \\
& x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) + ib_{-1,0,2,0,-1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + \\
& x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + \\
& x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + \\
& 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 +
\end{aligned}$$

$$\begin{aligned}
& x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{-1,0,2,0,-1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - \\
& x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + \\
& 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - \\
& x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + \\
& 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 + 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - \\
& x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) - ib_{-1,0,2,0,-1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + \\
& x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - \\
& x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + \\
& 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - \\
& x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{-1,0,2,0,1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4x_5 + \\
& x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - \\
& 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - \\
& x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + \\
& 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 + 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + \\
& x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) - ib_{-1,0,2,0,1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4y_5 - \\
& x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - \\
& x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + \\
& x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{-1,0,3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2^3 - \\
& 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) - ib_{-1,0,3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + \\
& 3x_2y_1y_2^2) + b_{-1,0,3,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) - \\
& ib_{-1,0,3,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + b_{-1,0,3,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) - ib_{-1,0,3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(3x_1x_2^2y_2 - \\
& x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + b_{-1,0,3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - \\
& y_1y_2^3) - ib_{-1,0,3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + \\
& b_{-1,1,-1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + \\
& y_1y_2y_5^2) + ib_{-1,1,-1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 - 2x_5y_1y_2y_5) + b_{-1,1,-1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + \\
& 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) - ib_{-1,1,-1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + \\
& x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,1,-1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - \\
& x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) - ib_{-1,1,-1,0,2,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + \\
& b_{-1,1,-3,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) + ib_{-1,1,-3,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + b_{-1,1,0,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + \\
& x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{-1,1,0,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,1,0,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) + \\
& ib_{-1,1,0,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + b_{-1,1,1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - x_1x_2y_3^2 +
\end{aligned}$$



$$\begin{aligned}
& 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2 + ib_{-1,1,1,0,-2,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_3y_3 - \\
& x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{-1,1,1,0,0,0,-2,0,0}^r(x_1^2 + \\
& y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) + \\
& ib_{-1,1,1,0,0,0,-2,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) + b_{-1,1,1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) - ib_{-1,1,1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 - \\
& x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,1,3,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2^3 - 3x_1x_2y_2^2 + \\
& 3x_2^2y_1y_2 - y_1y_2^3) - ib_{-1,1,3,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + \\
& b_{-2,0,-1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 - \\
& x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 - x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 + \\
& 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 - 2x_1x_3x_4x_5y_1y_2 - \\
& 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - x_2x_3y_1^2y_4y_5 + \\
& x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + x_4x_5y_1^2y_2y_3 + \\
& y_1^2y_2y_3y_4y_5) + ib_{-2,0,-1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + x_1^2x_2x_4x_5y_3 + \\
& x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 + x_1^2x_5y_2y_3y_4 + \\
& 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 - x_5y_1^2y_2y_3y_4) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 - \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 + y_1^2y_2y_3y_4y_5) + ib_{-2,0,-1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 + \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 - x_5y_1^2y_2y_3y_4) + b_{-2,0,-1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 - x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 - \\
& x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 + y_1^2y_2y_3y_4y_5) - ib_{-2,0,-1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 + \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 - x_5y_1^2y_2y_3y_4) + 2ib_{-2,0,-2,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + \\
& b_{-2,0,-2,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - y_1y_2) + \\
& 2ib_{-2,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + b_{-2,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2 - x_1y_2 - \\
& x_2y_1 - y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - y_1y_2) + 2ib_{-2,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2 - y_1y_2)(x_1y_2 + \\
& x_2y_1) + b_{-2,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - y_1y_2) +
\end{aligned}$$

$$\begin{aligned}
& 2ib_{-2,0,-2,1,0,0,0,0,0}^r(x_2^2+y_2^2)(x_1x_2-y_1y_2)(x_1y_2+x_2y_1)+b_{-2,0,-2,1,0,0,0,0,0}^r(x_2^2+y_2^2)(x_1x_2-x_1y_2- \\
& x_2y_1-y_1y_2)(x_1x_2+x_1y_2+x_2y_1-y_1y_2)+2ib_{-2,0,0,0,-2,0,-2,0,0,0}^r(x_1x_3x_4-x_1y_3y_4-x_3y_1y_4- \\
& x_4y_1y_3)(x_1x_3y_4+x_1x_4y_3+x_3x_4y_1-y_1y_3y_4)+b_{-2,0,0,0,-2,0,-2,0,0,0}^r(x_1x_3x_4-x_1x_3y_4-x_1x_4y_3- \\
& x_1y_3y_4-x_3x_4y_1-x_3y_1y_4-x_4y_1y_3+y_1y_3y_4)(x_1x_3x_4+x_1x_3y_4+x_1x_4y_3-x_1y_3y_4+ \\
& x_3x_4y_1-x_3y_1y_4-x_4y_1y_3-y_1y_3y_4)-2ib_{-2,0,0,0,-2,0,0,0,2,0}^r(x_1x_3x_5+x_1y_3y_5+x_3y_1y_5- \\
& x_5y_1y_3)(x_1x_3y_5-x_1x_5y_3-x_3x_5y_1-y_1y_3y_5)+b_{-2,0,0,0,-2,0,0,0,2,0}^r(x_1x_3x_5-x_1x_3y_5+x_1x_5y_3+ \\
& x_1y_3y_5+x_3x_5y_1+x_3y_1y_5-x_5y_1y_3+y_1y_3y_5)(x_1x_3x_5+x_1x_3y_5-x_1x_5y_3+x_1y_3y_5- \\
& x_3x_5y_1+x_3y_1y_5-x_5y_1y_3-y_1y_3y_5)+2ib_{-2,0,0,0,-4,0,0,0,0,0}^r(x_1x_3^2-x_1y_3^2-2x_3y_1y_3)(2x_1x_3y_3+ \\
& x_3^2y_1-y_1y_3^2)+b_{-2,0,0,0,-4,0,0,0,0,0}^r(x_1x_3^2-2x_1x_3y_3-x_1y_3^2-x_3^2y_1-2x_3y_1y_3+ \\
& y_1y_3^2)(x_1x_3^2+2x_1x_3y_3-x_1y_3^2+x_3^2y_1-2x_3y_1y_3-y_1y_3^2)-2ib_{-2,0,0,0,0,0,-2,0,2,0}^r(x_1x_4x_5+ \\
& x_1y_4y_5+x_4y_1y_5-x_5y_1y_4)(x_1x_4y_5-x_1x_5y_4-x_4x_5y_1-y_1y_4y_5)+b_{-2,0,0,0,0,0,-2,0,2,0}^r(x_1x_4x_5- \\
& x_1x_4y_5+x_1x_5y_4+x_1y_4y_5+x_4x_5y_1+x_4y_1y_5-x_5y_1y_4+y_1y_4y_5)(x_1x_4x_5+x_1x_4y_5- \\
& x_1x_5y_4+x_1y_4y_5-x_4x_5y_1+x_4y_1y_5-x_5y_1y_4-y_1y_4y_5)+2ib_{-2,0,0,0,0,0,-4,0,0,0}^r(x_1x_4^2-x_1y_4^2- \\
& 2x_4y_1y_4)(2x_1x_4y_4+x_4^2y_1-y_1y_4^2)+b_{-2,0,0,0,0,0,-4,0,0,0}^r(x_1x_4^2-2x_1x_4y_4-x_1y_4^2-x_4^2y_1- \\
& 2x_4y_1y_4+y_1y_4^2)(x_1x_4^2+2x_1x_4y_4-x_1y_4^2+x_4^2y_1-2x_4y_1y_4-y_1y_4^2)+ \\
& 2ib_{-2,0,0,0,0,0,0,0,-2,1}^r(x_5^2+y_5^2)(x_1x_5-y_1y_5)(x_1y_5+x_5y_1)+b_{-2,0,0,0,0,0,0,0,-2,1}^r(x_5^2+y_5^2)(x_1x_5-x_1y_5- \\
& x_5y_1-y_1y_5)(x_1x_5+x_1y_5+x_5y_1-y_1y_5)-2ib_{-2,0,0,0,0,0,0,0,4,0}^r(x_1x_5^2-x_1y_5^2+2x_5y_1y_5)(2x_1x_5y_5- \\
& x_5^2y_1+y_1y_5^2)+b_{-2,0,0,0,0,0,0,0,4,0}^r(x_1x_5^2-2x_1x_5y_5-x_1y_5^2+x_5^2y_1+2x_5y_1y_5- \\
& y_1y_5^2)(x_1x_5^2+2x_1x_5y_5-x_1y_5^2-x_5^2y_1+2x_5y_1y_5+y_1y_5^2)+2ib_{-2,0,0,0,0,0,0,1,-2,0}^r(x_4^2+ \\
& y_4^2)(x_1x_5-y_1y_5)(x_1y_5+x_5y_1)+b_{-2,0,0,0,0,0,0,1,-2,0}^r(x_4^2+y_4^2)(x_1x_5-x_1y_5-x_5y_1-y_1y_5)(x_1x_5+ \\
& x_1y_5+x_5y_1-y_1y_5)-2ib_{-2,0,0,0,0,0,2,0,0,1}^r(x_5^2+y_5^2)(x_1x_4+y_1y_4)(x_1y_4-x_4y_1)+ \\
& b_{-2,0,0,0,0,0,2,0,0,1}^r(x_5^2+y_5^2)(x_1x_4-x_1y_4+x_4y_1+y_1y_4)(x_1x_4+x_1y_4-x_4y_1+y_1y_4)- \\
& 2ib_{-2,0,0,0,0,0,2,1,0,0}^r(x_4^2+y_4^2)(x_1x_4+y_1y_4)(x_1y_4-x_4y_1)+b_{-2,0,0,0,0,0,2,1,0,0}^r(x_4^2+y_4^2)(x_1x_4-x_1y_4+ \\
& x_4y_1+y_1y_4)(x_1x_4+x_1y_4-x_4y_1+y_1y_4)+2ib_{-2,0,0,0,0,1,0,0,-2,0}^r(x_3^2+y_3^2)(x_1x_5-y_1y_5)(x_1y_5+ \\
& x_5y_1)+b_{-2,0,0,0,0,1,0,0,-2,0}^r(x_3^2+y_3^2)(x_1x_5-x_1y_5-x_5y_1-y_1y_5)(x_1x_5+x_1y_5+x_5y_1-y_1y_5)- \\
& 2ib_{-2,0,0,0,0,1,2,0,0,0}^r(x_3^2+y_3^2)(x_1x_4+y_1y_4)(x_1y_4-x_4y_1)+b_{-2,0,0,0,0,1,2,0,0,0}^r(x_3^2+y_3^2)(x_1x_4-x_1y_4+ \\
& x_4y_1+y_1y_4)(x_1x_4+x_1y_4-x_4y_1+y_1y_4)-2ib_{-2,0,0,0,2,0,0,0,0,1}^r(x_5^2+y_5^2)(x_1x_3+y_1y_3)(x_1y_3- \\
& x_3y_1)+b_{-2,0,0,0,2,0,0,0,0,1}^r(x_5^2+y_5^2)(x_1x_3-x_1y_3+x_3y_1+y_1y_3)(x_1x_3+x_1y_3-x_3y_1+y_1y_3)- \\
& 2ib_{-2,0,0,0,2,0,0,1,0,0}^r(x_4^2+y_4^2)(x_1x_3+y_1y_3)(x_1y_3-x_3y_1)+b_{-2,0,0,0,2,0,0,1,0,0}^r(x_4^2+y_4^2)(x_1x_3-x_1y_3+ \\
& x_3y_1+y_1y_3)(x_1x_3+x_1y_3-x_3y_1+y_1y_3)-2ib_{-2,0,0,0,2,1,0,0,0,0}^r(x_3^2+y_3^2)(x_1x_3+y_1y_3)(x_1y_3- \\
& x_3y_1)+b_{-2,0,0,0,2,1,0,0,0,0}^r(x_3^2+y_3^2)(x_1x_3-x_1y_3+x_3y_1+y_1y_3)(x_1x_3+x_1y_3-x_3y_1+y_1y_3)+ \\
& 2ib_{-2,0,0,1,0,0,0,0,-2,0}^r(x_2^2+y_2^2)(x_1x_5-y_1y_5)(x_1y_5+x_5y_1)+b_{-2,0,0,1,0,0,0,0,-2,0}^r(x_2^2+y_2^2)(x_1x_5-x_1y_5- \\
& x_5y_1-y_1y_5)(x_1x_5+x_1y_5+x_5y_1-y_1y_5)-2ib_{-2,0,0,1,0,0,2,0,0,0}^r(x_2^2+y_2^2)(x_1x_4+y_1y_4)(x_1y_4- \\
& x_4y_1)+b_{-2,0,0,1,0,0,2,0,0,0}^r(x_2^2+y_2^2)(x_1x_4-x_1y_4+x_4y_1+y_1y_4)(x_1x_4+x_1y_4-x_4y_1+y_1y_4)- \\
& 2ib_{-2,0,0,1,2,0,0,0,0,0}^r(x_2^2+y_2^2)(x_1x_3+y_1y_3)(x_1y_3-x_3y_1)+b_{-2,0,0,1,2,0,0,0,0,0}^r(x_2^2+y_2^2)(x_1x_3-x_1y_3+ \\
& x_3y_1+y_1y_3)(x_1x_3+x_1y_3-x_3y_1+y_1y_3)+b_{-2,0,1,0,-1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4x_5+x_1^2x_2x_3y_4y_5+ \\
& x_1^2x_2x_4y_3y_5-x_1^2x_2x_5y_3y_4-x_1^2x_3x_4y_2y_5+x_1^2x_3x_5y_2y_4+x_1^2x_4x_5y_2y_3+ \\
& x_1^2y_2y_3y_4y_5+2x_1x_2x_3x_4y_1y_5-2x_1x_2x_3x_5y_1y_4-2x_1x_2x_4x_5y_1y_3-2x_1x_2y_1y_3y_4y_5+ \\
& 2x_1x_3x_4x_5y_1y_2+2x_1x_3y_1y_2y_4y_5+2x_1x_4y_1y_2y_3y_5-2x_1x_5y_1y_2y_3y_4-x_2x_3x_4x_5y_1^2- \\
& x_2x_3y_1^2y_4y_5-x_2x_4y_1^2y_3y_5+x_2x_5y_1^2y_3y_4+x_3x_4y_1^2y_2y_5-x_3x_5y_1^2y_2y_4- \\
& x_4x_5y_1^2y_2y_3-y_1^2y_2y_3y_4y_5)-ib_{-2,0,1,0,-1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4y_5-x_1^2x_2x_3x_5y_4- \\
& x_1^2x_2x_4x_5y_3-x_1^2x_2y_3y_4y_5+x_1^2x_3x_4x_5y_2+x_1^2x_3y_2y_4y_5+x_1^2x_4y_2y_3y_5-
\end{aligned}$$

$$\begin{aligned}
& x_1^2 x_5 y_2 y_3 y_4 - 2x_1 x_2 x_3 x_4 x_5 y_1 - 2x_1 x_2 x_3 y_1 y_4 y_5 - 2x_1 x_2 x_4 y_1 y_3 y_5 + 2x_1 x_2 x_5 y_1 y_3 y_4 + \\
& 2x_1 x_3 x_4 y_1 y_2 y_5 - 2x_1 x_3 x_5 y_1 y_2 y_4 - 2x_1 x_4 x_5 y_1 y_2 y_3 - 2x_1 y_1 y_2 y_3 y_4 y_5 - x_2 x_3 x_4 y_1^2 y_5 + \\
& x_2 x_3 x_5 y_1^2 y_4 + x_2 x_4 x_5 y_1^2 y_3 + x_2 y_1^2 y_3 y_4 y_5 - x_3 x_4 x_5 y_1^2 y_2 - x_3 y_1^2 y_2 y_4 y_5 - \\
& x_4 y_1^2 y_2 y_3 y_5 + x_5 y_1^2 y_2 y_3 y_4) + b_{-2,0,1,0,1,0,1,0,-1,0}^r (x_1^2 x_2 x_3 x_4 x_5 + x_1^2 x_2 x_3 y_4 y_5 + \\
& x_1^2 x_2 x_4 y_3 y_5 - x_1^2 x_2 x_5 y_3 y_4 + x_1^2 x_3 x_4 y_2 y_5 - x_1^2 x_3 x_5 y_2 y_4 - x_1^2 x_4 x_5 y_2 y_3 - \\
& x_1^2 y_2 y_3 y_4 y_5 - 2x_1 x_2 x_3 x_4 y_1 y_5 + 2x_1 x_2 x_3 x_5 y_1 y_4 + 2x_1 x_2 x_4 x_5 y_1 y_3 + 2x_1 x_2 y_1 y_3 y_4 y_5 + \\
& 2x_1 x_3 x_4 x_5 y_1 y_2 + 2x_1 x_3 y_1 y_2 y_4 y_5 + 2x_1 x_4 y_1 y_2 y_3 y_5 - 2x_1 x_5 y_1 y_2 y_3 y_4 - x_2 x_3 x_4 x_5 y_1^2 - \\
& x_2 x_3 y_1^2 y_4 y_5 - x_2 x_4 y_1^2 y_3 y_5 + x_2 x_5 y_1^2 y_3 y_4 - x_3 x_4 y_1^2 y_2 y_5 + x_3 x_5 y_1^2 y_2 y_4 + \\
& x_4 x_5 y_1^2 y_2 y_3 + y_1^2 y_2 y_3 y_4 y_5) + ib_{-2,0,1,0,1,0,1,0,-1,0}^r (x_1^2 x_2 x_3 x_4 y_5 - x_1^2 x_2 x_3 x_5 y_4 - \\
& x_1^2 x_2 x_4 x_5 y_3 - x_1^2 x_2 y_3 y_4 y_5 - x_1^2 x_3 x_4 x_5 y_2 - x_1^2 x_3 y_2 y_4 y_5 - x_1^2 x_4 y_2 y_3 y_5 + \\
& x_1^2 x_5 y_2 y_3 y_4 + 2x_1 x_2 x_3 x_4 x_5 y_1 + 2x_1 x_2 x_3 y_1 y_4 y_5 + 2x_1 x_2 x_4 y_1 y_3 y_5 - 2x_1 x_2 x_5 y_1 y_3 y_4 + \\
& 2x_1 x_3 x_4 y_1 y_2 y_5 - 2x_1 x_3 x_5 y_1 y_2 y_4 - 2x_1 x_4 x_5 y_1 y_2 y_3 - 2x_1 y_1 y_2 y_3 y_4 y_5 - x_2 x_3 x_4 y_1^2 y_5 + \\
& x_2 x_3 x_5 y_1^2 y_4 + x_2 x_4 x_5 y_1^2 y_3 + x_2 y_1^2 y_3 y_4 y_5 + x_3 x_4 x_5 y_1^2 y_2 + x_3 y_1^2 y_2 y_4 y_5 + \\
& x_4 y_1^2 y_2 y_3 y_5 - x_5 y_1^2 y_2 y_3 y_4) + 2ib_{-2,0,2,0,-2,0,0,0,0,0}^r (x_1 x_2 x_3 + x_1 y_2 y_3 - x_2 y_1 y_3 + \\
& x_3 y_1 y_2)(x_1 x_2 y_3 - x_1 x_3 y_2 + x_2 x_3 y_1 + y_1 y_2 y_3) + b_{-2,0,2,0,-2,0,0,0,0,0}^r (x_1 x_2 x_3 - x_1 x_2 y_3 + x_1 x_3 y_2 + \\
& x_1 y_2 y_3 - x_2 x_3 y_1 - x_2 y_1 y_3 + x_3 y_1 y_2 - y_1 y_2 y_3)(x_1 x_2 x_3 + x_1 x_2 y_3 - x_1 x_3 y_2 + x_1 y_2 y_3 + \\
& x_2 x_3 y_1 - x_2 y_1 y_3 + x_3 y_1 y_2 + y_1 y_2 y_3) + 2ib_{-2,0,2,0,0,0,-2,0,0,0}^r (x_1 x_2 x_4 + x_1 y_2 y_4 - x_2 y_1 y_4 + \\
& x_4 y_1 y_2)(x_1 x_2 y_4 - x_1 x_4 y_2 + x_2 x_4 y_1 + y_1 y_2 y_4) + b_{-2,0,2,0,0,0,-2,0,0,0}^r (x_1 x_2 x_4 - x_1 x_2 y_4 + x_1 x_4 y_2 + \\
& x_1 y_2 y_4 - x_2 x_4 y_1 - x_2 y_1 y_4 + x_4 y_1 y_2 - y_1 y_2 y_4)(x_1 x_2 x_4 + x_1 x_2 y_4 - x_1 x_4 y_2 + x_1 y_2 y_4 + \\
& x_2 x_4 y_1 - x_2 y_1 y_4 + x_4 y_1 y_2 + y_1 y_2 y_4) - 2ib_{-2,0,2,0,0,0,0,0,2,0}^r (x_1 x_2 x_5 - x_1 y_2 y_5 + x_2 y_1 y_5 + \\
& x_5 y_1 y_2)(x_1 x_2 y_5 + x_1 x_5 y_2 - x_2 x_5 y_1 + y_1 y_2 y_5) + b_{-2,0,2,0,0,0,0,0,2,0}^r (x_1 x_2 x_5 - x_1 x_2 y_5 - x_1 x_5 y_2 - \\
& x_1 y_2 y_5 + x_2 x_5 y_1 + x_2 y_1 y_5 + x_5 y_1 y_2 - y_1 y_2 y_5)(x_1 x_2 x_5 + x_1 x_2 y_5 + x_1 x_5 y_2 - x_1 y_2 y_5 - \\
& x_2 x_5 y_1 + x_2 y_1 y_5 + x_5 y_1 y_2 + y_1 y_2 y_5) - 2ib_{-2,0,4,0,0,0,0,0,0,0}^r (x_1 x_2^2 - x_1 y_2^2 + 2x_2 y_1 y_2)(2x_1 x_2 y_2 - \\
& x_2^2 y_1 + y_1 y_2^2) + b_{-2,0,4,0,0,0,0,0,0,0}^r (x_1 x_2^2 - 2x_1 x_2 y_2 - x_1 y_2^2 + x_2^2 y_1 + 2x_2 y_1 y_2 - \\
& y_1 y_2^2)(x_1 x_2^2 + 2x_1 x_2 y_2 - x_1 y_2^2 - x_2^2 y_1 + 2x_2 y_1 y_2 + y_1 y_2^2) + 2ib_{-2,1,-2,0,0,0,0,0,0,0}^r (x_1^2 + \\
& y_1^2)(x_1 x_2 - y_1 y_2)(x_1 y_2 + x_2 y_1) + b_{-2,1,-2,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_2 - x_1 y_2 - x_2 y_1 - y_1 y_2)(x_1 x_2 + \\
& x_1 y_2 + x_2 y_1 - y_1 y_2) + 2ib_{-2,1,0,0,0,0,0,0,-2,0}^r (x_1^2 + y_1^2)(x_1 x_5 - y_1 y_5)(x_1 y_5 + x_5 y_1) + \\
& b_{-2,1,0,0,0,0,0,0,-2,0}^r (x_1^2 + y_1^2)(x_1 x_5 - x_1 y_5 - x_5 y_1 - y_1 y_5)(x_1 x_5 + x_1 y_5 + x_5 y_1 - y_1 y_5) - \\
& 2ib_{-2,1,0,0,0,0,2,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_4 + y_1 y_4)(x_1 y_4 - x_4 y_1) + b_{-2,1,0,0,0,0,2,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_4 - x_1 y_4 + \\
& x_4 y_1 + y_1 y_4)(x_1 x_4 + x_1 y_4 - x_4 y_1 + y_1 y_4) - 2ib_{-2,1,0,0,2,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_3 + y_1 y_3)(x_1 y_3 - \\
& x_3 y_1) + b_{-2,1,0,0,2,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_3 - x_1 y_3 + x_3 y_1 + y_1 y_3)(x_1 x_3 + x_1 y_3 - x_3 y_1 + y_1 y_3) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1^3 x_2 - 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + y_1^3 y_2) + ib_{-3,0,-1,0,0,0,0,0,0,1}^r (x_5^2 + \\
& y_5^2)(x_1^3 y_2 + 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - x_2 y_1^3) + b_{-3,0,-1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1^3 x_2 - \\
& 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + y_1^3 y_2) + ib_{-3,0,-1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1^3 y_2 + 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - \\
& x_2 y_1^3) + b_{-3,0,-1,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1^3 x_2 - 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + y_1^3 y_2) + \\
& ib_{-3,0,-1,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1^3 y_2 + 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - x_2 y_1^3) + b_{-3,0,-1,1,0,0,0,0,0,0}^r (x_2^2 + \\
& y_2^2)(x_1^3 x_2 - 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + y_1^3 y_2) + ib_{-3,0,-1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1^3 y_2 + \\
& 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - x_2 y_1^3) + b_{-3,0,0,0,-1,0,1,0,-1,0}^r (x_1^3 x_3 x_4 x_5 + x_1^3 x_3 y_4 y_5 - x_1^3 x_4 y_3 y_5 + \\
& x_1^3 x_5 y_3 y_4 - 3x_1^2 x_3 x_4 y_1 y_5 + 3x_1^2 x_3 x_5 y_1 y_4 - 3x_1^2 x_4 x_5 y_1 y_3 - 3x_1^2 y_1 y_3 y_4 y_5 - \\
& 3x_1 x_3 x_4 x_5 y_1^2 - 3x_1 x_3 y_1^2 y_4 y_5 + 3x_1 x_4 y_1^2 y_3 y_5 - 3x_1 x_5 y_1^2 y_3 y_4 + x_3 x_4 y_1^3 y_5 - \\
& x_3 x_5 y_1^3 y_4 + x_4 x_5 y_1^3 y_3 + y_1^3 y_3 y_4 y_5) + ib_{-3,0,0,0,-1,0,1,0,-1,0}^r (x_1^3 x_3 x_4 y_5 - x_1^3 x_3 x_5 y_4 + \\
& x_1^3 x_4 x_5 y_3 + x_1^3 y_3 y_4 y_5 + 3x_1^2 x_3 x_4 x_5 y_1 + 3x_1^2 x_3 y_1 y_4 y_5 - 3x_1^2 x_4 y_1 y_3 y_5 +
\end{aligned}$$

$$\begin{aligned}
& 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 + 3x_1x_3x_5y_1^2y_4 - 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 - \\
& x_3x_4x_5y_1^3 - x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 - x_5y_1^3y_3y_4 + b_{-3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4x_5 - \\
& x_1^3x_3y_4y_5 + x_1^3x_4y_3y_5 + x_1^3x_5y_3y_4 - 3x_1^2x_3x_4y_1y_5 - 3x_1^2x_3x_5y_1y_4 + \\
& 3x_1^2x_4x_5y_1y_3 - 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 - 3x_1x_4y_1^2y_3y_5 - \\
& 3x_1x_5y_1^2y_3y_4 + x_3x_4y_1^3y_5 + x_3x_5y_1^3y_4 - x_4x_5y_1^3y_3 + y_1^3y_3y_4y_5) + \\
& ib_{-3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 - x_1^3x_4x_5y_3 + x_1^3y_3y_4y_5 + 3x_1^2x_3x_4x_5y_1 - \\
& 3x_1^2x_3y_1y_4y_5 + 3x_1^2x_4y_1y_3y_5 + 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 + \\
& 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 - x_3x_4x_5y_1^3 + x_3y_1^3y_4y_5 - x_4y_1^3y_3y_5 - x_5y_1^3y_3y_4) + \\
& b_{-3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 - x_1^3x_5y_3y_4 + 3x_1^2x_3x_4y_1y_5 + \\
& 3x_1^2x_3x_5y_1y_4 + 3x_1^2x_4x_5y_1y_3 - 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 + \\
& 3x_1x_4y_1^2y_3y_5 + 3x_1x_5y_1^2y_3y_4 - x_3x_4y_1^3y_5 - x_3x_5y_1^3y_4 - x_4x_5y_1^3y_3 + y_1^3y_3y_4y_5) - \\
& ib_{-3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 + x_1^3x_4x_5y_3 - x_1^3y_3y_4y_5 - 3x_1^2x_3x_4x_5y_1 + \\
& 3x_1^2x_3y_1y_4y_5 + 3x_1^2x_4y_1y_3y_5 + 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 - \\
& 3x_1x_4x_5y_1^2y_3 + 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 - x_3y_1^3y_4y_5 - x_4y_1^3y_3y_5 - x_5y_1^3y_3y_4) + \\
& b_{-3,0,1,0,0,0,0,0,-2,0}^r(x_1^3x_2x_5^2 - x_1^3x_2y_5^2 + 2x_1^3x_5y_2y_5 - 6x_1^2x_2x_5y_1y_5 + 3x_1^2x_5^2y_1y_2 - \\
& 3x_1^2y_1y_2y_5^2 - 3x_1x_2x_5^2y_1^2 + 3x_1x_2y_1^2y_5^2 - 6x_1x_5y_1^2y_2y_5 + 2x_2x_5y_1^3y_5 - \\
& x_5^2y_1^3y_2 + y_1^3y_2y_5^2) + ib_{-3,0,1,0,0,0,0,0,-2,0}^r(2x_1^3x_2x_5y_5 - x_1^3x_5^2y_2 + x_1^3y_2y_5^2 + \\
& 3x_1^2x_2x_5^2y_1 - 3x_1^2x_2y_1y_5^2 + 6x_1^2x_5y_1y_2y_5 - 6x_1x_2x_5y_1^2y_5 + 3x_1x_5^2y_1^2y_2 - \\
& 3x_1y_1^2y_2y_5^2 - x_2x_5^2y_1^3 + x_2y_1^3y_5^2 - 2x_5y_1^3y_2y_5) + b_{-3,0,1,0,0,0,2,0,0,0}^r(x_1^3x_2x_4^2 - \\
& x_1^3x_2y_4^2 - 2x_1^3x_4y_2y_4 + 6x_1^2x_2x_4y_1y_4 + 3x_1^2x_4^2y_1y_2 - 3x_1^2y_1y_2y_4^2 - \\
& 3x_1x_2x_4^2y_1^2 + 3x_1x_2y_1^2y_4^2 + 6x_1x_4y_1^2y_2y_4 - 2x_2x_4y_1^3y_4 - x_4^2y_1^3y_2 + y_1^3y_2y_4^2) - \\
& ib_{-3,0,1,0,0,0,2,0,0,0}^r(2x_1^3x_2x_4y_4 + x_1^3x_4^2y_2 - x_1^3y_2y_4^2 - 3x_1^2x_2x_4^2y_1 + 3x_1^2x_2y_1y_4^2 + \\
& 6x_1^2x_4y_1y_2y_4 - 6x_1x_2x_4y_1^2y_4 - 3x_1x_4^2y_1^2y_2 + 3x_1y_1^2y_2y_4^2 + x_2x_4^2y_1^3 - \\
& x_2y_1^3y_4^2 - 2x_4y_1^3y_2y_4) + b_{-3,0,1,0,2,0,0,0,0,0}^r(x_1^3x_2x_3^2 - x_1^3x_2y_3^2 - 2x_1^3x_3y_2y_3 + \\
& 6x_1^2x_2x_3y_1y_3 + 3x_1^2x_3^2y_1y_2 - 3x_1^2y_1y_2y_3^2 - 3x_1x_2x_3^2y_1^2 + 3x_1x_2y_1^2y_3^2 + \\
& 6x_1x_3y_1^2y_2y_3 - 2x_2x_3y_1^3y_3 - x_3^2y_1^3y_2 + y_1^3y_2y_3^2) - ib_{-3,0,1,0,2,0,0,0,0,0}^r(2x_1^3x_2x_3y_3 + \\
& x_1^3x_3^2y_2 - x_1^3y_2y_3^2 - 3x_1^2x_2x_3^2y_1 + 3x_1^2x_2y_1y_3^2 + 6x_1^2x_3y_1y_2y_3 - \\
& 6x_1x_2x_3y_1^2y_3 - 3x_1x_3^2y_1^2y_2 + 3x_1y_1^2y_2y_3^2 + x_2x_3^2y_1^3 - x_2y_1^3y_3^2 - 2x_3y_1^3y_2y_3) + \\
& b_{-3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) + ib_{-3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1^3y_2 + 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - x_2y_1^3) + 4ib_{-4,0,0,0,0,0,0,0,0,1}^r(x_1y_1(x_1 - y_1)(x_1 + y_1)(x_5^2 + \\
& y_5^2) + b_{-4,0,0,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + \\
& 4ib_{-4,0,0,0,0,0,0,1,0,0}^r(x_1y_1(x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2) + b_{-4,0,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1^2 - 2x_1y_1 - \\
& y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + 4ib_{-4,0,0,0,0,0,1,0,0,0}^r(x_1y_1(x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2) + b_{-4,0,0,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + 4ib_{-4,0,0,1,0,0,0,0,0,0}^r(x_1y_1(x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2) + \\
& b_{-4,0,0,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + 4ib_{-4,1,0,0,0,0,0,0,0,0}^r(x_1y_1(x_1 - \\
& y_1)(x_1 + y_1)(x_1^2 + y_1^2) + b_{-4,1,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + \\
& b_{-5,0,1,0,0,0,0,0,0,0}^r(x_1^5x_2 + 5x_1^4y_1y_2 - 10x_1^3x_2y_1^2 - 10x_1^2y_1^3y_2 + 5x_1x_2y_1^4 + y_1^5y_2) - \\
& ib_{-5,0,1,0,0,0,0,0,0,0}^r(x_1^5y_2 - 5x_1^4x_2y_1 - 10x_1^3y_1^2y_2 + 10x_1^2x_2y_1^3 + 5x_1y_1^4y_2 - x_2y_1^5) + \\
& b_{0,0,-1,0,-1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - ib_{0,0,-1,0,-1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - ib_{0,0,-1,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r(x_2x_3x_4^3x_5 - 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 + x_2x_3y_4^3y_5 - x_2x_4^3y_3y_5 - \\
& 3x_2x_4^2x_5y_3y_4 + 3x_2x_4y_3y_4^2y_5 + x_2x_5y_3y_4^3 - x_3x_4^3y_2y_5 - 3x_3x_4^2x_5y_2y_4 + \\
& 3x_3x_4y_2y_4^2y_5 + x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 + 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 - \\
& y_2y_3y_4^3y_5) + ib_{0,0,-1,0,-1,0,-3,0,-1,0}^r(x_2x_3x_4^3y_5 + 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 - \\
& x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 - 3x_2x_4^2y_3y_4y_5 - 3x_2x_4x_5y_3y_4^2 + x_2y_3y_4^3y_5 + x_3x_4^3x_5y_2 - \\
& 3x_3x_4^2y_2y_4y_5 - 3x_3x_4x_5y_2y_4^2 + x_3y_2y_4^3y_5 - x_4^3y_2y_3y_5 - 3x_4^2x_5y_2y_3y_4 + \\
& 3x_4y_2y_3y_4^2y_5 + x_5y_2y_3y_4^3) + b_{0,0,-1,0,-1,0,1,0,-3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 + \\
& 3x_2x_3x_4^2y_4y_5 - x_2x_3y_4y_5^3 - 3x_2x_4x_5^2y_3y_5 + x_2x_4y_3y_5^3 + x_2x_5^3y_3y_4 - \\
& 3x_2x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_2y_5 + x_3x_4y_2y_5^3 + x_3x_5^3y_2y_4 - 3x_3x_5y_2y_4y_5^2 - \\
& x_4x_5^3y_2y_3 + 3x_4x_5y_2y_3y_5^2 - 3x_5^2y_2y_3y_4y_5 + y_2y_3y_4y_5^3) + \\
& ib_{0,0,-1,0,-1,0,1,0,-3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 - x_2x_3x_5^3y_4 + 3x_2x_3x_5y_4y_5^2 + \\
& x_2x_4x_5^3y_3 - 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 + x_3x_4x_5^3y_2 - \\
& 3x_3x_4x_5y_2y_5^2 + 3x_3x_5^2y_2y_4y_5 - x_3y_2y_4y_5^3 - 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 + \\
& x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,-1,0,1,0,3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 - \\
& 3x_2x_3x_4^2y_4y_5 + x_2x_3y_4y_5^3 + 3x_2x_4x_5^2y_3y_5 - x_2x_4y_3y_5^3 + x_2x_5^3y_3y_4 - \\
& 3x_2x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_2y_5 - x_3x_4y_2y_5^3 + x_3x_5^3y_2y_4 - 3x_3x_5y_2y_4y_5^2 - \\
& x_4x_5^3y_2y_3 + 3x_4x_5y_2y_3y_5^2 + 3x_5^2y_2y_3y_4y_5 - y_2y_3y_4y_5^3) - \\
& ib_{0,0,-1,0,-1,0,1,0,3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 + x_2x_3x_5^3y_4 - 3x_2x_3x_5y_4y_5^2 - \\
& x_2x_4x_5^3y_3 + 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 - x_3x_4x_5^3y_2 + \\
& 3x_3x_4x_5y_2y_5^2 + 3x_3x_5^2y_2y_4y_5 - x_3y_2y_4y_5^3 - 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 - \\
& x_5^3y_2y_3y_4 + 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,-1,0,3,0,-1,0}^r(x_2x_3x_4^3x_5 + 3x_2x_3x_4^2y_4y_5 - \\
& 3x_2x_3x_4x_5y_4^2 - x_2x_3y_4^3y_5 - x_2x_4^3x_5y_3y_4 + 3x_2x_4y_3y_4^2y_5 - \\
& x_2x_5y_3y_4^3 - x_3x_4^3y_2y_5 + 3x_3x_4^2x_5y_2y_4 + 3x_3x_4y_2y_4^2y_5 - x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 - \\
& 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 + y_2y_3y_4^3y_5) + ib_{0,0,-1,0,-1,0,3,0,-1,0}^r(x_2x_3x_4^3y_5 - \\
& 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 + x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 + 3x_2x_4^2y_3y_4y_5 - \\
& 3x_2x_4x_5y_3y_4^2 - x_2y_3y_4^3y_5 + x_3x_4^3x_5y_2 + 3x_3x_4^2y_2y_4y_5 - 3x_3x_4x_5y_2y_4^2 - \\
& x_3y_2y_4^3y_5 - x_4^3y_2y_3y_5 + 3x_4^2x_5y_2y_3y_4 + 3x_4y_2y_3y_4^2y_5 - x_5y_2y_3y_4^3) + \\
& b_{0,0,-1,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - ib_{0,0,-1,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r(x_2x_3^3x_4x_5 - x_2x_3^3y_4y_5 - 3x_2x_3^2x_4y_3y_5 - 3x_2x_3^2x_5y_3y_4 - \\
& 3x_2x_3x_4x_5y_3^2 + 3x_2x_3y_3^2y_4y_5 + x_2x_4y_3^3y_5 + x_2x_5y_3^3y_4 - x_3^3x_4y_2y_5 - x_3^3x_5y_2y_4 - \\
& 3x_3^2x_4x_5y_2y_3 + 3x_3^2y_2y_3y_4y_5 + 3x_3x_4y_2y_3^2y_5 + 3x_3x_5y_2y_3^2y_4 + x_4x_5y_2y_3^3 - \\
& y_2y_3^3y_4y_5) + ib_{0,0,-1,0,-3,0,-1,0,-1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 + 3x_2x_3^2x_4x_5y_3 - \\
& 3x_2x_3^2y_3y_4y_5 - 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 - x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 + \\
& x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 - 3x_3^2x_4y_2y_3y_5 - 3x_3^2x_5y_2y_3y_4 - 3x_3x_4x_5y_2y_3^2 + \\
& 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 + x_5y_2y_3^3y_4) + b_{0,0,-1,0,-3,0,1,0,1,0}^r(x_2x_3^3x_4x_5 - x_2x_3^3y_4y_5 + \\
& 3x_2x_3^2x_4y_3y_5 + 3x_2x_3^2x_5y_3y_4 - 3x_2x_3x_4x_5y_3^2 + 3x_2x_3y_3^2y_4y_5 - x_2x_4y_3^3y_5 - \\
& x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 + x_3^3x_5y_2y_4 - 3x_3^2x_4x_5y_2y_3 + 3x_3^2y_2y_3y_4y_5 - \\
& 3x_3x_4y_2y_3^2y_5 - 3x_3x_5y_2y_3^2y_4 + x_4x_5y_2y_3^3 - y_2y_3^3y_4y_5) -
\end{aligned}$$

$$\begin{aligned}
& ib_{0,0,-1,0,-3,0,1,0,1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 - 3x_2x_3^2x_4x_5y_3 + 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 - x_2y_3^3y_4y_5 - x_3^3x_4x_5y_2 + x_3^3y_2y_4y_5 - \\
& 3x_3^2x_4y_2y_3y_5 - 3x_3^2x_5y_2y_3y_4 + 3x_3x_4x_5y_2y_3^2 - 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 + \\
& x_5y_2y_3^3y_4) + b_{0,0,-1,0,1,0,-1,0,-3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 - 3x_2x_3x_5^2y_4y_5 + x_2x_3y_4y_5^3 + \\
& 3x_2x_4x_5^2y_3y_5 - x_2x_4y_3y_5^3 + x_2x_5^3y_3y_4 - 3x_2x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_2y_5 + \\
& x_3x_4y_2y_5^3 - x_3x_5^3y_2y_4 + 3x_3x_5y_2y_4y_5^2 + x_4x_5^3y_2y_3 - 3x_4x_5y_2y_3y_5^2 - \\
& 3x_5^2y_2y_3y_4y_5 + y_2y_3y_4y_5^3) + ib_{0,0,-1,0,1,0,-1,0,-3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 + \\
& x_2x_3x_5^3y_4 - 3x_2x_3x_5y_4y_5^2 - x_2x_4x_5^3y_3 + 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - \\
& x_2y_3y_4y_5^3 + x_3x_4x_5^3y_2 - 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 + \\
& 3x_4x_5^2y_2y_3y_5 - x_4y_2y_3y_5^3 + x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,1,0,-1,0,3,0}^r(x_2x_3x_4x_5^3 - \\
& 3x_2x_3x_4x_5y_5^2 + 3x_2x_3x_5^2y_4y_5 - x_2x_3y_4y_5^3 - 3x_2x_4x_5^2y_3y_5 + x_2x_4y_3y_5^3 + \\
& x_2x_5^3y_3y_4 - 3x_2x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_2y_5 - x_3x_4y_2y_5^3 - x_3x_5^3y_2y_4 + \\
& 3x_3x_5y_2y_4y_5^2 + x_4x_5^3y_2y_3 - 3x_4x_5y_2y_3y_5^2 + 3x_5^2y_2y_3y_4y_5 - y_2y_3y_4y_5^3) - \\
& ib_{0,0,-1,0,1,0,-1,0,3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 - x_2x_3x_5^3y_4 + 3x_2x_3x_5y_4y_5^2 + \\
& x_2x_4x_5^3y_3 - 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 - x_3x_4x_5^3y_2 + \\
& 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 + 3x_4x_5^2y_2y_3y_5 - x_4y_2y_3y_5^3 - \\
& x_5^3y_2y_3y_4 + 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,1,0,-3,0,1,0}^r(x_2x_3x_4^3x_5 + 3x_2x_3x_4^2y_4y_5 - \\
& 3x_2x_3x_4x_5y_4^2 - x_2x_3y_4^3y_5 - x_2x_4^3y_3y_5 + 3x_2x_4^2x_5y_3y_4 + 3x_2x_4y_3y_4^2y_5 - \\
& x_2x_5y_3y_4^3 + x_3x_4^3y_2y_5 - 3x_3x_4^2x_5y_2y_4 - 3x_3x_4y_2y_4^2y_5 + x_3x_5y_2y_4^3 + x_4^3x_5y_2y_3 + \\
& 3x_4^2y_2y_3y_4y_5 - 3x_4x_5y_2y_3y_4^2 - y_2y_3y_4^3y_5) - ib_{0,0,-1,0,1,0,-3,0,1,0}^r(x_2x_3x_4^3y_5 - \\
& 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 + x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 + 3x_2x_4^2y_3y_4y_5 - \\
& 3x_2x_4x_5y_3y_4^2 - x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 - 3x_3x_4^2y_2y_4y_5 + 3x_3x_4x_5y_2y_4^2 + \\
& x_3y_2y_4^3y_5 + x_4^3y_2y_3y_5 - 3x_4^2x_5y_2y_3y_4 - 3x_4y_2y_3y_4^2y_5 + x_5y_2y_3y_4^3) + \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + ib_{0,0,-1,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + ib_{0,0,-1,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r(x_2x_3x_4^3x_5 - 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 + x_2x_3y_4^3y_5 - x_2x_4^3y_3y_5 - \\
& 3x_2x_4^2x_5y_3y_4 + 3x_2x_4y_3y_4^2y_5 + x_2x_5y_3y_4^3 + x_3x_4^3y_2y_5 + 3x_3x_4^2x_5y_2y_4 - \\
& 3x_3x_4y_2y_4^2y_5 - x_3x_5y_2y_4^3 + x_4^3x_5y_2y_3 - 3x_4^2y_2y_3y_4y_5 - 3x_4x_5y_2y_3y_4^2 + \\
& y_2y_3y_4^3y_5) - ib_{0,0,-1,0,1,0,3,0,1,0}^r(x_2x_3x_4^3y_5 + 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 - \\
& x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 - 3x_2x_4^2y_3y_4y_5 - 3x_2x_4x_5y_3y_4^2 + x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 + \\
& 3x_3x_4^2y_2y_4y_5 + 3x_3x_4x_5y_2y_4^2 - x_3y_2y_4^3y_5 + x_4^3y_2y_3y_5 + 3x_4^2x_5y_2y_3y_4 - \\
& 3x_4y_2y_3y_4^2y_5 - x_5y_2y_3y_4^3) + b_{0,0,-1,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + \\
& ib_{0,0,-1,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + b_{0,0,-1,0,3,0,-1,0,-1,0}^r(x_2x_3^3x_4x_5 - x_2x_3^3y_4y_5 + \\
& 3x_2x_3^2x_4y_3y_5 + 3x_2x_3^2x_5y_3y_4 - 3x_2x_3x_4x_5y_3^2 + 3x_2x_3y_3^2y_4y_5 - x_2x_4y_3^3y_5 - \\
& x_2x_5y_3^3y_4 - x_3^3x_4y_2y_5 - 3x_3^3x_5y_2y_4 + 3x_3^2x_4x_5y_2y_3 - 3x_3^2y_2y_3y_4y_5 + \\
& 3x_3x_4y_2y_3^2y_5 + 3x_3x_5y_2y_3^2y_4 - x_4x_5y_2y_3^2 + y_2y_3^3y_4y_5) +
\end{aligned}$$

$$\begin{aligned}
& ib_{0,0,-1,0,3,0,-1,0,-1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 - 3x_2x_3^2x_4x_5y_3 + 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 - x_2y_3^3y_4y_5 + x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 + \\
& 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 - 3x_3x_4x_5y_2y_3^2 + 3x_3y_2y_3^2y_4y_5 - x_4y_2y_3^3y_5 - \\
& x_5y_2y_3^3y_4) + b_{0,0,-1,0,3,0,1,0,1,0}^r(x_2x_3^3x_4x_5 - x_2x_3^3y_4y_5 - 3x_2x_3^2x_4y_3y_5 - 3x_2x_3^2x_5y_3y_4 - \\
& 3x_2x_3x_4x_5y_3^2 + 3x_2x_3y_3^2y_4y_5 + x_2x_4y_3^3y_5 + x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 + x_3^3x_5y_2y_4 + \\
& 3x_3^2x_4x_5y_2y_3 - 3x_3^2y_2y_3y_4y_5 - 3x_3x_4y_2y_3^2y_5 - 3x_3x_5y_2y_3^2y_4 - x_4x_5y_2y_3^3 + \\
& y_2y_3^3y_4y_5) - ib_{0,0,-1,0,3,0,1,0,1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 + 3x_2x_3^2x_4x_5y_3 - \\
& 3x_2x_3^2y_3y_4y_5 - 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 - x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 - \\
& x_3^3x_4x_5y_2 + x_3^3y_2y_4y_5 + 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 + 3x_3x_4x_5y_2y_3^2 - \\
& 3x_3y_2y_3^2y_4y_5 - x_4y_2y_3^3y_5 - x_5y_2y_3^3y_4) + b_{0,0,-1,1,-1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - \\
& ib_{0,0,-1,1,-1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - \\
& x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,0,-1,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + \\
& ib_{0,0,-1,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + 2ib_{0,0,-2,0,-2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2y_3y_4 - x_3y_2y_4 - \\
& x_4y_2y_3)(x_2x_3y_4 + x_2x_4y_3 + x_3x_4y_2 - y_2y_3y_4) + b_{0,0,-2,0,-2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 - x_2x_4y_3 - \\
& x_2y_3y_4 - x_3x_4y_2 - x_3y_2y_4 - x_4y_2y_3 + y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 + x_2x_4y_3 - x_2y_3y_4 + \\
& x_3x_4y_2 - x_3y_2y_4 - x_4y_2y_3 - y_2y_3y_4) - 2ib_{0,0,-2,0,-2,0,0,0,2,0}^r(x_2x_3x_5 + x_2y_3y_5 + x_3y_2y_5 - \\
& x_5y_2y_3)(x_2x_3y_5 - x_2x_5y_3 - x_3x_5y_2 - y_2y_3y_5) + b_{0,0,-2,0,-2,0,0,0,2,0}^r(x_2x_3x_5 - x_2x_3y_5 + x_2x_5y_3 + \\
& x_2y_3y_5 + x_3x_5y_2 + x_3y_2y_5 - x_5y_2y_3 + y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 - x_2x_5y_3 + x_2y_3y_5 - \\
& x_3x_5y_2 + x_3y_2y_5 - x_5y_2y_3 - y_2y_3y_5) + 2ib_{0,0,-2,0,-4,0,0,0,0,0}^r(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3)(2x_2x_3y_3 + \\
& x_3^2y_2 - y_2y_3^2) + b_{0,0,-2,0,-4,0,0,0,0,0}^r(x_2x_3^2 - 2x_2x_3y_3 - x_2y_3^2 - x_3^2y_2 - 2x_3y_2y_3 + \\
& y_2y_3^2)(x_2x_3^2 + 2x_2x_3y_3 - x_2y_3^2 + x_3^2y_2 - 2x_3y_2y_3 - y_2y_3^2) - 2ib_{0,0,-2,0,0,0,-2,0,2,0}^r(x_2x_4x_5 + \\
& x_2y_4y_5 + x_4y_2y_5 - x_5y_2y_4)(x_2x_4y_5 - x_2x_5y_4 - x_4x_5y_2 - y_2y_4y_5) + b_{0,0,-2,0,0,0,-2,0,2,0}^r(x_2x_4x_5 - \\
& x_2x_4y_5 + x_2x_5y_4 + x_2y_4y_5 + x_4x_5y_2 + x_4y_2y_5 - x_5y_2y_4 + y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 - \\
& x_2x_5y_4 + x_2y_4y_5 - x_4x_5y_2 + x_4y_2y_5 - x_5y_2y_4 - y_2y_4y_5) + 2ib_{0,0,-2,0,0,0,-4,0,0,0}^r(x_2x_4^2 - x_2y_4^2 - \\
& 2x_4y_2y_4)(2x_2x_4y_4 + x_4^2y_2 - y_2y_4^2) + b_{0,0,-2,0,0,0,-4,0,0,0}^r(x_2x_4^2 - 2x_2x_4y_4 - x_2y_4^2 - x_4^2y_2 - \\
& 2x_4y_2y_4 + y_2y_4^2)(x_2x_4^2 + 2x_2x_4y_4 - x_2y_4^2 + x_4^2y_2 - 2x_4y_2y_4 - y_2y_4^2) + \\
& 2ib_{0,0,-2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) + b_{0,0,-2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2x_5 - x_2y_5 - \\
& x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) - 2ib_{0,0,-2,0,0,0,0,0,4,0}^r(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5)(2x_2x_5y_5 - \\
& x_5^2y_2 + y_2y_5^2) + b_{0,0,-2,0,0,0,0,0,4,0}^r(x_2x_5^2 - 2x_2x_5y_5 - x_2y_5^2 + x_5^2y_2 + 2x_5y_2y_5 - \\
& y_2y_5^2)(x_2x_5^2 + 2x_2x_5y_5 - x_2y_5^2 - x_5^2y_2 + 2x_5y_2y_5 + y_2y_5^2) + 2ib_{0,0,-2,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) + b_{0,0,-2,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + \\
& x_2y_5 + x_5y_2 - y_2y_5) - 2ib_{0,0,-2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + \\
& b_{0,0,-2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) - \\
& 2ib_{0,0,-2,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + b_{0,0,-2,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2x_4 - x_2y_4 + \\
& x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + 2ib_{0,0,-2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2x_5 - y_2y_5)(x_2y_5 + \\
& x_5y_2) + b_{0,0,-2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) - \\
& 2ib_{0,0,-2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + b_{0,0,-2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2x_4 - x_2y_4 + \\
& x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) - 2ib_{0,0,-2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2x_3 + y_2y_3)(x_2y_3 - \\
& x_3y_2) + b_{0,0,-2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) -
\end{aligned}$$

$$\begin{aligned}
& 2ib_{0,0,-2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + b_{0,0,-2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2x_3 - x_2y_3 + \\
& x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) - 2ib_{0,0,-2,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2x_3 + y_2y_3)(x_2y_3 - \\
& x_3y_2) + b_{0,0,-2,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + \\
& 2ib_{0,0,-2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) + b_{0,0,-2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2x_5 - x_2y_5 - \\
& x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) - 2ib_{0,0,-2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2x_4 + y_2y_4)(x_2y_4 - \\
& x_4y_2) + b_{0,0,-2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) - \\
& 2ib_{0,0,-2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + b_{0,0,-2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2x_3 - x_2y_3 + \\
& x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + b_{0,0,-3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4x_5 + x_2^3x_3y_4y_5 - \\
& x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 + 3x_2^2x_3x_5y_2y_4 - 3x_2^2x_4x_5y_2y_3 - \\
& 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 - 3x_2x_3y_2^2y_4y_5 + 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 + \\
& x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 + x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) + ib_{0,0,-3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4y_5 - \\
& x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 + 3x_2^2x_3y_2y_4y_5 - \\
& 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 + 3x_2x_3x_5y_2^2y_4 - 3x_2x_4x_5y_2^2y_3 - \\
& 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) + \\
& b_{0,0,-3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 + x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 - \\
& 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 - \\
& 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 + x_3x_4y_2^3y_5 + x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) + \\
& ib_{0,0,-3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 - x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 - \\
& 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 + \\
& 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 + x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) + \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 - x_2^3x_5y_3y_4 + 3x_2^2x_3x_4y_2y_5 + \\
& 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 + \\
& 3x_2x_4y_2^2y_3y_5 + 3x_2x_5y_2^2y_3y_4 - x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) - \\
& ib_{0,0,-3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 - x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 + \\
& 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 - \\
& 3x_2x_4x_5y_2^2y_3 + 3x_2y_2^2y_3y_4y_5 + x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) + \\
& 4ib_{0,0,-4,0,0,0,0,0,1}^r(x_2y_2(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) + b_{0,0,-4,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2^2 - 2x_2y_2 - \\
& y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) + 4ib_{0,0,-4,0,0,0,1,0,0}^r(x_2y_2(x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2) + b_{0,0,-4,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) + 4ib_{0,0,-4,0,0,1,0,0,0}^r(x_2y_2(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2) + \\
& b_{0,0,-4,0,0,1,0,0,0}^r(x_3^2 + y_3^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) + 4ib_{0,0,-4,1,0,0,0,0,0}^r(x_2y_2(x_2 - \\
& y_2)(x_2 + y_2)(x_2^2 + y_2^2) + b_{0,0,-4,1,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) + \\
& 2ib_{0,0,0,0,-2,0,-2,0,-2,0}^r(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4)(x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 - y_3y_4y_5) + \\
& b_{0,0,0,0,-2,0,-2,0,-2,0}^r(x_3x_4x_5 - x_3x_4y_5 - x_3x_5y_4 - x_3y_4y_5 - x_4x_5y_3 - x_4y_3y_5 - x_5y_3y_4 + \\
& y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 + x_3x_5y_4 - x_3y_4y_5 + x_4x_5y_3 - x_4y_3y_5 - x_5y_3y_4 - y_3y_4y_5) + \\
& 2ib_{0,0,0,0,-2,0,0,0,0,2}^r(x_3y_3(x_5^2 + y_5^2)^2 + b_{0,0,0,0,-2,0,0,0,0,2}^r(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2)^2 + \\
& 2ib_{0,0,0,0,-2,0,0,1,0,1}^r(x_3y_3(x_4^2 + y_4^2)(x_5^2 + y_5^2) + b_{0,0,0,0,-2,0,0,1,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) + 2ib_{0,0,0,0,-2,0,0,2,0,0}^r(x_3y_3(x_4^2 + y_4^2)^2 + b_{0,0,0,0,-2,0,0,2,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2)^2 - \\
& 2ib_{0,0,0,0,-2,0,2,0,2,0}^r(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4)(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5) + \\
& b_{0,0,0,0,-2,0,2,0,2,0}^r(x_3x_4x_5 - x_3x_4y_5 - x_3x_5y_4 - x_3y_4y_5 + x_4x_5y_3 + x_4y_3y_5 + x_5y_3y_4 - \\
& y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 + x_3x_5y_4 - x_3y_4y_5 - x_4x_5y_3 + x_4y_3y_5 + x_5y_3y_4 + y_3y_4y_5) + \\
& 2ib_{0,0,0,0,-2,1,0,0,0,1}^r(x_3y_3(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,0,0,-2,1,0,0,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2)(x_5^2 + \\
& y_5^2) + 2ib_{0,0,0,0,-2,1,0,1,0,0}^r(x_3y_3(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,0,0,-2,1,0,1,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + \\
\end{aligned}$$



$$\begin{aligned}
& y_3^2)(x_4^2 + y_4^2) + 2ib_{0,0,0,0,-2,2,0,0,0,0}^r x_3 y_3 (x_3^2 + y_3^2)^2 + b_{0,0,0,0,-2,2,0,0,0,0}^r (x_3 - y_3)(x_3 + y_3)(x_3^2 + \\
& y_3^2)^2 + 2ib_{0,0,0,0,-4,0,0,0,-2,0}^r (x_3^2 x_5 - 2x_3 y_3 y_5 - x_5 y_3^2)(x_3^2 y_5 + 2x_3 x_5 y_3 - y_3^2 y_5) + \\
& b_{0,0,0,0,-4,0,0,0,-2,0}^r (x_3^2 x_5 - x_3^2 y_5 - 2x_3 x_5 y_3 - 2x_3 y_3 y_5 - x_5 y_3^2 + y_3^2 y_5)(x_3^2 x_5 + x_3^2 y_5 + \\
& 2x_3 x_5 y_3 - 2x_3 y_3 y_5 - x_5 y_3^2 - y_3^2 y_5) - 2ib_{0,0,0,0,-4,0,2,0,0,0}^r (x_3^2 x_4 + 2x_3 y_3 y_4 - x_4 y_3^2)(x_3^2 y_4 - \\
& 2x_3 x_4 y_3 - y_3^2 y_4) + b_{0,0,0,0,-4,0,2,0,0,0}^r (x_3^2 x_4 - x_3^2 y_4 + 2x_3 x_4 y_3 + 2x_3 y_3 y_4 - x_4 y_3^2 + \\
& y_3^2 y_4)(x_3^2 x_4 + x_3^2 y_4 - 2x_3 x_4 y_3 + 2x_3 y_3 y_4 - x_4 y_3^2 - y_3^2 y_4) + 2ib_{0,0,0,0,0,0,-2,0,0,2}^r x_4 y_4 (x_5^2 + \\
& y_5^2)^2 + b_{0,0,0,0,0,0,-2,0,0,2}^r (x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2)^2 + 2ib_{0,0,0,0,0,0,-2,1,0,1}^r x_4 y_4 (x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) + b_{0,0,0,0,0,0,-2,1,0,1}^r (x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + 2ib_{0,0,0,0,0,0,-2,2,0,0}^r x_4 y_4 (x_4^2 + y_4^2)^2 + \\
& b_{0,0,0,0,0,0,-2,2,0,0}^r (x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2)^2 + 2ib_{0,0,0,0,0,0,-4,0,-2,0}^r (x_4^2 x_5 - 2x_4 y_4 y_5 - \\
& x_5 y_4^2)(x_4^2 y_5 + 2x_4 x_5 y_4 - y_4^2 y_5) + b_{0,0,0,0,0,0,-4,0,-2,0}^r (x_4^2 x_5 - x_4^2 y_5 - 2x_4 x_5 y_4 - 2x_4 y_4 y_5 - \\
& x_5 y_4^2 + y_4^2 y_5)(x_4^2 x_5 + x_4^2 y_5 + 2x_4 x_5 y_4 - 2x_4 y_4 y_5 - x_5 y_4^2 - y_4^2 y_5) + \\
& 4ib_{0,0,0,0,0,0,0,0,-4,1}^r x_5 y_5 (x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,0,0,-4,1}^r (x_5^2 + y_5^2)(x_5^2 - 2x_5 y_5 - \\
& y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) - 2ib_{0,0,0,0,0,0,0,0,2,2}^r x_5 y_5 (x_5^2 + y_5^2)^2 + b_{0,0,0,0,0,0,0,0,2,2}^r (x_5 - y_5)(x_5 + \\
& y_5)(x_5^2 + y_5^2)^2 + 4ib_{0,0,0,0,0,0,0,0,1,-4,0}^r x_5 y_5 (x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,0,0,0,0,0,1,-4,0}^r (x_4^2 + \\
& y_4^2)(x_5^2 - 2x_5 y_5 - y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) - 2ib_{0,0,0,0,0,0,0,0,1,2,1}^r x_5 y_5 (x_4^2 + y_4^2)(x_5^2 + y_5^2) + \\
& b_{0,0,0,0,0,0,0,0,1,2,1}^r (x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) - 2ib_{0,0,0,0,0,0,0,0,2,2,0}^r x_5 y_5 (x_4^2 + y_4^2)^2 + \\
& b_{0,0,0,0,0,0,0,0,2,2,0}^r (x_4^2 + y_4^2)^2 (x_5 - y_5)(x_5 + y_5) + 2ib_{0,0,0,0,0,0,0,0,2,0,-2,1}^r (x_5^2 + y_5^2)(x_4 x_5 + y_4 y_5)(x_4 y_5 - \\
& x_5 y_4) + b_{0,0,0,0,0,0,0,0,2,0,-2,1}^r (x_5^2 + y_5^2)(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5)(x_4 x_5 + x_4 y_5 - x_5 y_4 + y_4 y_5) - \\
& 2ib_{0,0,0,0,0,0,0,0,2,0,4,0}^r (x_4 x_5^2 - x_4 y_5^2 - 2x_5 y_4 y_5)(2x_4 x_5 y_5 + x_5^2 y_4 - y_4 y_5^2) + b_{0,0,0,0,0,0,0,0,2,0,4,0}^r (x_4 x_5^2 - \\
& 2x_4 x_5 y_5 - x_4 y_5^2 - x_5^2 y_4 - 2x_5 y_4 y_5 + y_4 y_5^2)(x_4 x_5^2 + 2x_4 x_5 y_5 - x_4 y_5^2 + x_5^2 y_4 - 2x_5 y_4 y_5 - \\
& y_4 y_5^2) + 2ib_{0,0,0,0,0,0,0,0,2,1,-2,0}^r (x_4^2 + y_4^2)(x_4 x_5 + y_4 y_5)(x_4 y_5 - x_5 y_4) + b_{0,0,0,0,0,0,0,0,2,1,-2,0}^r (x_4^2 + \\
& y_4^2)(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5)(x_4 x_5 + x_4 y_5 - x_5 y_4 + y_4 y_5) - 4ib_{0,0,0,0,0,0,0,0,4,0,0,1}^r x_4 y_4 (x_4 - y_4)(x_4 + \\
& y_4)(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,0,0,4,0,0,1}^r (x_5^2 + y_5^2)(x_4^2 - 2x_4 y_4 - y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) - \\
& 4ib_{0,0,0,0,0,0,0,0,4,1,0,0}^r x_4 y_4 (x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + b_{0,0,0,0,0,0,0,0,4,1,0,0}^r (x_4^2 + y_4^2)(x_4^2 - 2x_4 y_4 - \\
& y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) + 2ib_{0,0,0,0,0,0,0,0,1,-2,0,0,1}^r x_4 y_4 (x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,0,0,1,-2,0,0,1}^r (x_3^2 + \\
& y_3^2)(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) + 2ib_{0,0,0,0,0,0,0,0,1,-2,1,0,0}^r x_4 y_4 (x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& b_{0,0,0,0,0,0,0,0,1,-2,1,0,0}^r (x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + 4ib_{0,0,0,0,0,0,0,0,1,0,0,-4,0}^r x_5 y_5 (x_3^2 + y_3^2)(x_5 - \\
& y_5)(x_5 + y_5) + b_{0,0,0,0,0,0,0,0,1,0,0,-4,0}^r (x_3^2 + y_3^2)(x_5^2 - 2x_5 y_5 - y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) - \\
& 2ib_{0,0,0,0,0,0,0,0,1,0,0,2,1}^r x_5 y_5 (x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,0,0,1,0,0,2,1}^r (x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + \\
& y_5^2) - 2ib_{0,0,0,0,0,0,0,0,1,0,1,2,0}^r x_5 y_5 (x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,0,0,0,0,0,0,1,0,1,2,0}^r (x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_5 - \\
& y_5)(x_5 + y_5) + 2ib_{0,0,0,0,0,0,0,0,1,2,0,-2,0}^r (x_3^2 + y_3^2)(x_4 x_5 + y_4 y_5)(x_4 y_5 - x_5 y_4) + b_{0,0,0,0,0,0,0,0,1,2,0,-2,0}^r (x_3^2 + \\
& y_3^2)(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5)(x_4 x_5 + x_4 y_5 - x_5 y_4 + y_4 y_5) - 4ib_{0,0,0,0,0,0,0,0,1,4,0,0,0}^r x_4 y_4 (x_3^2 + \\
& y_3^2)(x_4 - y_4)(x_4 + y_4) + b_{0,0,0,0,0,0,0,0,1,4,0,0,0}^r (x_3^2 + y_3^2)(x_4^2 - 2x_4 y_4 - y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) + \\
& 2ib_{0,0,0,0,0,0,2,-2,0,0,0}^r x_4 y_4 (x_3^2 + y_3^2)^2 + b_{0,0,0,0,0,0,2,-2,0,0,0}^r (x_3^2 + y_3^2)^2 (x_4 - y_4)(x_4 + y_4) - \\
& 2ib_{0,0,0,0,0,0,2,0,0,2,0}^r x_5 y_5 (x_3^2 + y_3^2)^2 + b_{0,0,0,0,0,0,2,0,0,2,0}^r (x_3^2 + y_3^2)^2 (x_5 - y_5)(x_5 + y_5) - \\
& 2ib_{0,0,0,0,0,2,0,-2,0,2,0}^r (x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)(x_3 x_4 y_5 - x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5) + \\
& b_{0,0,0,0,0,2,0,-2,0,2,0}^r (x_3 x_4 x_5 - x_3 x_4 y_5 + x_3 x_5 y_4 + x_3 y_4 y_5 - x_4 x_5 y_3 - x_4 y_3 y_5 + x_5 y_3 y_4 - \\
& y_3 y_4 y_5)(x_3 x_4 x_5 + x_3 x_4 y_5 - x_3 x_5 y_4 + x_3 y_4 y_5 + x_4 x_5 y_3 - x_4 y_3 y_5 + x_5 y_3 y_4 + y_3 y_4 y_5) + \\
& 2ib_{0,0,0,0,2,0,-4,0,0,0}^r (x_3 x_4^2 - x_3 y_4^2 + 2x_4 y_3 y_4)(2x_3 x_4 y_4 - x_4^2 y_3 + y_3 y_4^2) + b_{0,0,0,0,2,0,-4,0,0,0}^r (x_3 x_4^2 - \\
& 2x_3 x_4 y_4 - x_3 y_4^2 + x_4^2 y_3 + 2x_4 y_3 y_4 - y_3 y_4^2)(x_3 x_4^2 + 2x_3 x_4 y_4 - x_3 y_4^2 - x_4^2 y_3 + 2x_4 y_3 y_4 + \\
& y_3 y_4^2) + 2ib_{0,0,0,0,2,0,0,0,-2,1}^r (x_5^2 + y_5^2)(x_3 x_5 + y_3 y_5)(x_3 y_5 - x_5 y_3) + b_{0,0,0,0,2,0,0,0,-2,1}^r (x_5^2 + \\
& y_5^2)(x_3 x_5 - x_3 y_5 + x_5 y_3 + y_3 y_5)(x_3 x_5 + x_3 y_5 - x_5 y_3 + y_3 y_5) - 2ib_{0,0,0,0,2,0,0,0,4,0}^r (x_3 x_5^2 - x_3 y_5^2 -
\end{aligned}$$

$$\begin{aligned}
& 2x_5y_3y_5)(2x_3x_5y_5 + x_5^2y_3 - y_3y_5^2) + b_{0,0,0,0,2,0,0,0,4,0}^r(x_3x_5^2 - 2x_3x_5y_5 - x_3y_5^2 - x_5^2y_3 - \\
& 2x_5y_3y_5 + y_3y_5^2)(x_3x_5^2 + 2x_3x_5y_5 - x_3y_5^2 + x_5^2y_3 - 2x_5y_3y_5 - y_3y_5^2) + \\
& 2ib_{0,0,0,0,2,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) + b_{0,0,0,0,2,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_3x_5 - x_3y_5 + \\
& x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) - 2ib_{0,0,0,0,2,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + \\
& b_{0,0,0,0,2,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) - \\
& 2ib_{0,0,0,0,2,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + b_{0,0,0,0,2,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_3x_4 - x_3y_4 - \\
& x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) + 2ib_{0,0,0,0,2,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_3x_5 + y_3y_5)(x_3y_5 - \\
& x_5y_3) + b_{0,0,0,0,2,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) - \\
& 2ib_{0,0,0,0,2,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + b_{0,0,0,0,2,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_3x_4 - x_3y_4 - \\
& x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) - 4ib_{0,0,0,0,4,0,0,0,0,1}^r x_3y_3(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) + \\
& b_{0,0,0,0,4,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) - 4ib_{0,0,0,0,4,0,0,1,0,0}^r x_3y_3(x_3 - \\
& y_3)(x_3 + y_3)(x_4^2 + y_4^2) + b_{0,0,0,0,4,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) - \\
& 4ib_{0,0,0,0,4,1,0,0,0,0}^r x_3y_3(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + b_{0,0,0,0,4,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_3^2 - 2x_3y_3 - \\
& y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) + 2ib_{0,0,0,1,-2,0,0,0,0,1}^r x_3y_3(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,0,1,-2,0,0,0,0,1}^r(x_2^2 + \\
& y_2^2)(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) + 2ib_{0,0,0,1,-2,0,0,1,0,0}^r x_3y_3(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& b_{0,0,0,1,-2,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2) + 2ib_{0,0,0,1,-2,1,0,0,0,0}^r x_3y_3(x_2^2 + y_2^2)(x_3^2 + \\
& y_3^2) + b_{0,0,0,1,-2,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + 2ib_{0,0,0,1,0,0,-2,0,0,1}^r x_4y_4(x_2^2 + \\
& y_2^2)(x_5^2 + y_5^2) + b_{0,0,0,1,0,0,-2,0,0,1}^r(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) + \\
& 2ib_{0,0,0,1,0,0,-2,1,0,0}^r x_4y_4(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{0,0,0,1,0,0,-2,1,0,0}^r(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + \\
& y_4^2) + 4ib_{0,0,0,1,0,0,0,0,-4,0}^r x_5y_5(x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,1,0,0,0,0,-4,0}^r(x_2^2 + y_2^2)(x_5^2 - 2x_5y_5 - \\
& y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) - 2ib_{0,0,0,1,0,0,0,0,2,1}^r x_5y_5(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,0,1,0,0,0,0,2,1}^r(x_2^2 + \\
& y_2^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) - 2ib_{0,0,0,1,0,0,0,1,2,0}^r x_5y_5(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& b_{0,0,0,1,0,0,0,1,2,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) + 2ib_{0,0,0,1,0,0,2,0,-2,0}^r(x_2^2 + y_2^2)(x_4x_5 + \\
& y_4y_5)(x_4y_5 - x_5y_4) + b_{0,0,0,1,0,0,2,0,-2,0}^r(x_2^2 + y_2^2)(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + \\
& y_4y_5) - 4ib_{0,0,0,1,0,0,4,0,0,0}^r x_4y_4(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4) + b_{0,0,0,1,0,0,4,0,0,0}^r(x_2^2 + y_2^2)(x_4^2 - 2x_4y_4 - \\
& y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) + 2ib_{0,0,0,1,0,1,-2,0,0,0}^r x_4y_4(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{0,0,0,1,0,1,-2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) - 2ib_{0,0,0,1,0,1,0,0,2,0}^r x_5y_5(x_2^2 + y_2^2)(x_3^2 + y_3^2) + \\
& b_{0,0,0,1,0,1,0,0,2,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) + 2ib_{0,0,0,1,2,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_3x_5 + \\
& y_3y_5)(x_3y_5 - x_5y_3) + b_{0,0,0,1,2,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + \\
& y_3y_5) - 2ib_{0,0,0,1,2,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + b_{0,0,0,1,2,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_3x_4 - \\
& x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) - 4ib_{0,0,0,1,4,0,0,0,0,0}^r x_3y_3(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + \\
& y_3) + b_{0,0,0,1,4,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) + \\
& 2ib_{0,0,0,2,-2,0,0,0,0,0}^r x_3y_3(x_2^2 + y_2^2)^2 + b_{0,0,0,2,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_3 - y_3)(x_3 + y_3) + \\
& 2ib_{0,0,0,2,0,0,-2,0,0,0}^r x_4y_4(x_2^2 + y_2^2)^2 + b_{0,0,0,2,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)^2(x_4 - y_4)(x_4 + y_4) - \\
& 2ib_{0,0,0,2,0,0,0,0,2,0}^r x_5y_5(x_2^2 + y_2^2)^2 + b_{0,0,0,2,0,0,0,0,2,0}^r(x_2^2 + y_2^2)^2(x_5 - y_5)(x_5 + y_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,0,1,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,1,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,0,1,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,0,1,0,-1,0,1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 -
\end{aligned}$$

$$\begin{aligned}
& y_2 y_3 y_4 y_5) - ib_{0,0,1,0,-1,0,1,0,1,1}^r (x_5^2 + y_5^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + \\
& x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-1,0,1,1,1,0}^r (x_4^2 + y_4^2) (x_2 x_3 x_4 x_5 - \\
& x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) - \\
& ib_{0,0,1,0,-1,0,1,1,1,0}^r (x_4^2 + y_4^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-1,1,-1,0,-1,0}^r (x_3^2 + y_3^2) (x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 - \\
& x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + \\
& ib_{0,0,1,0,-1,1,-1,0,-1,0}^r (x_3^2 + y_3^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-1,1,1,0,1,0}^r (x_3^2 + y_3^2) (x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 + \\
& x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) - \\
& ib_{0,0,1,0,-1,1,1,0,1,0}^r (x_3^2 + y_3^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-3,0,1,0,-1,0}^r (x_2 x_3^3 x_4 x_5 + x_2 x_3^3 y_4 y_5 - \\
& 3x_2 x_3^2 x_4 y_3 y_5 + 3x_2 x_3^2 x_5 y_3 y_4 - 3x_2 x_3 x_4 x_5 y_3^2 - 3x_2 x_3 y_3^2 y_4 y_5 + x_2 x_4 y_3^3 y_5 - \\
& x_2 x_5 y_3^3 y_4 + x_3^3 x_4 y_2 y_5 - x_3^3 x_5 y_2 y_4 + 3x_3^2 x_4 x_5 y_2 y_3 + 3x_3^2 y_2 y_3 y_4 y_5 - \\
& 3x_3 x_4 y_2 y_3^2 y_5 + 3x_3 x_5 y_2 y_3^2 y_4 - x_4 x_5 y_2 y_3^3 - y_2 y_3^3 y_4 y_5) + \\
& ib_{0,0,1,0,-3,0,1,0,-1,0}^r (x_2 x_3^3 x_4 y_5 - x_2 x_3^3 x_5 y_4 + 3x_2 x_3^2 x_4 x_5 y_3 + 3x_2 x_3^2 y_3 y_4 y_5 - \\
& 3x_2 x_3 x_4 y_3^2 y_5 + 3x_2 x_3 x_5 y_3^2 y_4 - x_2 x_4 x_5 y_3^3 - x_2 y_3^3 y_4 y_5 - x_3^3 x_4 x_5 y_2 - x_3^3 y_2 y_4 y_5 + \\
& 3x_3^2 x_4 y_2 y_3 y_5 - 3x_3^2 x_5 y_2 y_3 y_4 + 3x_3 x_4 x_5 y_2 y_3^2 + 3x_3 y_2 y_3^2 y_4 y_5 - x_4 y_2 y_3^3 y_5 + \\
& x_5 y_2 y_3^3 y_4) + b_{0,0,1,0,1,0,-1,0,1,1}^r (x_5^2 + y_5^2) (x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - \\
& x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) - ib_{0,0,1,0,1,0,-1,0,1,1}^r (x_5^2 + y_5^2) (x_2 x_3 x_4 y_5 - \\
& x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,1,0,1,0,-1,1,1,0}^r (x_4^2 + y_4^2) (x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + \\
& x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) - ib_{0,0,1,0,1,0,-1,1,1,0}^r (x_4^2 + y_4^2) (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r (x_2 x_3 x_4^3 x_5 - 3x_2 x_3 x_4^2 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_4^2 + x_2 x_3 y_4^3 y_5 + x_2 x_4^3 y_3 y_5 + \\
& 3x_2 x_4^2 x_5 y_3 y_4 - 3x_2 x_4 y_3 y_4^2 y_5 - x_2 x_5 y_3 y_4^3 + x_3 x_4^3 y_2 y_5 + 3x_3 x_4^2 x_5 y_2 y_4 - \\
& 3x_3 x_4 y_2 y_4^2 y_5 - x_3 x_5 y_2 y_4^3 - x_4^3 x_5 y_2 y_3 + 3x_4^2 y_2 y_3 y_4 y_5 + 3x_4 x_5 y_2 y_3 y_4^2 - \\
& y_2 y_3 y_4^3 y_5) + ib_{0,0,1,0,1,0,-3,0,-1,0}^r (x_2 x_3 x_4^3 y_5 + 3x_2 x_3 x_4^2 x_5 y_4 - 3x_2 x_3 x_4 y_4^2 y_5 - \\
& x_2 x_3 x_5 y_4^3 - x_2 x_4^3 x_5 y_3 + 3x_2 x_4^2 y_3 y_4 y_5 + 3x_2 x_4 x_5 y_3 y_4^2 - x_2 y_3 y_4^3 y_5 - x_3 x_4^3 x_5 y_2 + \\
& 3x_3 x_4^2 y_2 y_4 y_5 + 3x_3 x_4 x_5 y_2 y_4^2 - x_3 y_2 y_4^3 y_5 - x_4^3 y_2 y_3 y_5 - 3x_4^2 x_5 y_2 y_3 y_4 + \\
& 3x_4 y_2 y_3 y_4^2 y_5 + x_5 y_2 y_3 y_4^3) + b_{0,0,1,0,1,0,1,0,-3,0}^r (x_2 x_3 x_4 x_5^3 - 3x_2 x_3 x_4 x_5 y_5^2 + \\
& 3x_2 x_3 x_5^2 y_4 y_5 - x_2 x_3 y_4 y_5^3 + 3x_2 x_4 x_5^2 y_3 y_5 - x_2 x_4 y_3 y_5^3 - x_2 x_5^3 y_3 y_4 + \\
& 3x_2 x_5 y_3 y_4 y_5^2 + 3x_3 x_4 x_5^2 y_2 y_5 - x_3 x_4 y_2 y_5^3 - x_3 x_5^3 y_2 y_4 + 3x_3 x_5 y_2 y_4 y_5^2 - \\
& x_4 x_5^3 y_2 y_3 + 3x_4 x_5 y_2 y_3 y_5^2 - 3x_5^2 y_2 y_3 y_4 y_5 + y_2 y_3 y_4 y_5^3) + \\
& ib_{0,0,1,0,1,0,1,0,-3,0}^r (3x_2 x_3 x_4 x_5^3 y_5 - x_2 x_3 x_4 y_5^3 - x_2 x_3 x_5^3 y_4 + 3x_2 x_3 x_5 y_4 y_5^2 - x_2 x_4 x_5^3 y_3 + \\
& 3x_2 x_4 x_5 y_3 y_5^2 - 3x_2 x_5^2 y_3 y_4 y_5 + x_2 y_3 y_4 y_5^3 - x_3 x_4 x_5^3 y_2 + 3x_3 x_4 x_5 y_2 y_5^2 - \\
& 3x_3 x_5^2 y_2 y_4 y_5 + x_3 y_2 y_4 y_5^3 - 3x_4 x_5^2 y_2 y_3 y_5 + x_4 y_2 y_3 y_5^3 + x_5^3 y_2 y_3 y_4 - \\
& 3x_5 y_2 y_3 y_4 y_5^2) + b_{0,0,1,0,1,0,1,0,3,0}^r (x_2 x_3 x_4 x_5^3 - 3x_2 x_3 x_4 x_5 y_5^2 - 3x_2 x_3 x_5^2 y_4 y_5 + \\
& x_2 x_3 y_4 y_5^3 - 3x_2 x_4 x_5^2 y_3 y_5 + x_2 x_4 y_3 y_5^3 - x_2 x_5^3 y_3 y_4 + 3x_2 x_5 y_3 y_4 y_5^2 - \\
& 3x_3 x_4 x_5^2 y_2 y_5 + x_3 x_4 y_2 y_5^3 - x_3 x_5^3 y_2 y_4 + 3x_3 x_5 y_2 y_4 y_5^2 - x_4 x_5^3 y_2 y_3 + \\
& 3x_4 x_5 y_2 y_3 y_5^2 + 3x_5^2 y_2 y_3 y_4 y_5 - y_2 y_3 y_4 y_5^3) - ib_{0,0,1,0,1,0,1,0,3,0}^r (3x_2 x_3 x_4 x_5^2 y_5 - \\
& x_2 x_3 x_4 y_5^3 + x_2 x_3 x_5^3 y_4 - 3x_2 x_3 x_5 y_4 y_5^2 + x_2 x_4 x_5^3 y_3 - 3x_2 x_4 x_5 y_3 y_5^2 - \\
& 3x_2 x_5^2 y_3 y_4 y_5 + x_2 y_3 y_4 y_5^3 + x_3 x_4 x_5^3 y_2 - 3x_3 x_4 x_5 y_2 y_5^2 - 3x_3 x_5^2 y_2 y_4 y_5 + \\
& 3x_3 x_5 y_2 y_4 y_5^2 + x_4 x_5^3 y_2 y_3 - 3x_4 x_5 y_2 y_3 y_5^2 - 3x_5^2 y_2 y_3 y_4 y_5 + y_2 y_3 y_4 y_5^3)
\end{aligned}$$

$$\begin{aligned}
& x_3y_2y_4y_5^3 - 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 - x_5^3y_2y_3y_4 + 3x_5y_2y_3y_4y_5^2) + \\
& b_{0,0,1,0,1,0,3,0,-1,0}^r(x_2x_3x_4^3x_5 + 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 - x_2x_3y_4^3y_5 + x_2x_4^3y_3y_5 - \\
& 3x_2x_4^2x_5y_3y_4 - 3x_2x_4y_3y_4^2y_5 + x_2x_5y_3y_4^3 + x_3x_4^3y_2y_5 - 3x_3x_4^2x_5y_2y_4 - \\
& 3x_3x_4y_2y_4^2y_5 + x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 - 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 + \\
& y_2y_3y_4^3y_5) + ib_{0,0,1,0,1,0,3,0,-1,0}^r(x_2x_3x_4^3y_5 - 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 + \\
& x_2x_3x_5y_4^3 - x_2x_4^3x_5y_3 - 3x_2x_4^2y_3y_4y_5 + 3x_2x_4x_5y_3y_4^2 + x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 - \\
& 3x_3x_4^2y_2y_4y_5 + 3x_3x_4x_5y_2y_4^2 + x_3y_2y_4^3y_5 - x_4^3y_2y_3y_5 + 3x_4^2x_5y_2y_3y_4 + \\
& 3x_4y_2y_3y_4^2y_5 - x_5y_2y_3y_4^3) + b_{0,0,1,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - \\
& ib_{0,0,1,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,0,1,0,3,0,1,0,-1,0}^r(x_2x_3^3x_4x_5 + x_2x_3^3y_4y_5 + \\
& 3x_2x_3^2x_4y_3y_5 - 3x_2x_3^2x_5y_3y_4 - 3x_2x_3x_4x_5y_3^2 - 3x_2x_3y_3^2y_4y_5 - x_2x_4y_3^3y_5 + \\
& x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 - x_3^3x_5y_2y_4 - 3x_3^2x_4x_5y_2y_3 - 3x_3^2y_2y_3y_4y_5 - \\
& 3x_3x_4y_2y_3^2y_5 + 3x_3x_5y_2y_3^2y_4 + x_4x_5y_2y_3^3 + y_2y_3^3y_4y_5) + \\
& ib_{0,0,1,0,3,0,1,0,-1,0}^r(x_2x_3^3x_4y_5 - x_2x_3^3x_5y_4 - 3x_2x_3^2x_4x_5y_3 - 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 + 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 - x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 - \\
& 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 + 3x_3x_4x_5y_2y_3^2 + 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 - \\
& x_5y_2y_3^3y_4) + b_{0,0,1,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + \\
& x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,0,1,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 + \\
& x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,1,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - ib_{0,0,1,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,0,1,1,1,0,-1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - \\
& y_2y_3y_4y_5) - ib_{0,0,1,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + 2ib_{0,0,2,0,-2,0,0,0,-2,0}^r(x_2x_3x_5 - x_2y_3y_5 + \\
& x_3y_2y_5 + x_5y_2y_3)(x_2x_3y_5 + x_2x_5y_3 - x_3x_5y_2 + y_2y_3y_5) + b_{0,0,2,0,-2,0,0,0,-2,0}^r(x_2x_3x_5 - x_2x_3y_5 - \\
& x_2x_5y_3 - x_2y_3y_5 + x_3x_5y_2 + x_3y_2y_5 + x_5y_2y_3 - y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 + x_2x_5y_3 - \\
& x_2y_3y_5 - x_3x_5y_2 + x_3y_2y_5 + x_5y_2y_3 + y_2y_3y_5) - 2ib_{0,0,2,0,-2,0,2,0,0,0}^r(x_2x_3x_4 + x_2y_3y_4 - x_3y_2y_4 + \\
& x_4y_2y_3)(x_2x_3y_4 - x_2x_4y_3 + x_3x_4y_2 + y_2y_3y_4) + b_{0,0,2,0,-2,0,2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 + x_2x_4y_3 + \\
& x_2y_3y_4 - x_3x_4y_2 - x_3y_2y_4 + x_4y_2y_3 - y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 - x_2x_4y_3 + x_2y_3y_4 + \\
& x_3x_4y_2 - x_3y_2y_4 + x_4y_2y_3 + y_2y_3y_4) + 2ib_{0,0,2,0,0,0,-2,0,-2,0}^r(x_2x_4x_5 - x_2y_4y_5 + x_4y_2y_5 + \\
& x_5y_2y_4)(x_2x_4y_5 + x_2x_5y_4 - x_4x_5y_2 + y_2y_4y_5) + b_{0,0,2,0,0,0,-2,0,-2,0}^r(x_2x_4x_5 - x_2x_4y_5 - x_2x_5y_4 - \\
& x_2y_4y_5 + x_4x_5y_2 + x_4y_2y_5 + x_5y_2y_4 - y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 + x_2x_5y_4 - x_2y_4y_5 - \\
& x_4x_5y_2 + x_4y_2y_5 + x_5y_2y_4 + y_2y_4y_5) - 2ib_{0,0,2,0,0,0,0,0,0,2}^r(x_2^2 + y_5^2)^2 + b_{0,0,2,0,0,0,0,0,0,2}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_5^2 + y_5^2)^2 - 2ib_{0,0,2,0,0,0,0,1,0,1}^r(x_2^2 + y_4^2)(x_5^2 + y_5^2) + b_{0,0,2,0,0,0,0,1,0,1}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) - 2ib_{0,0,2,0,0,0,0,2,0,0}^r(x_2^2 + y_4^2)^2 + b_{0,0,2,0,0,0,0,2,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_4^2 + y_4^2)^2 - 2ib_{0,0,2,0,0,0,2,0,2,0}^r(x_2x_4x_5 - x_2y_4y_5 - x_4y_2y_5 - x_5y_2y_4)(x_2x_4y_5 + \\
& x_2x_5y_4 + x_4x_5y_2 - y_2y_4y_5) + b_{0,0,2,0,0,0,2,0,2,0}^r(x_2x_4x_5 - x_2x_4y_5 - x_2x_5y_4 - x_2y_4y_5 - x_4x_5y_2 - \\
& x_4y_2y_5 - x_5y_2y_4 + y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 + x_2x_5y_4 - x_2y_4y_5 + x_4x_5y_2 - x_4y_2y_5 - \\
& x_5y_2y_4 - y_2y_4y_5) - 2ib_{0,0,2,0,0,1,0,0,0,1}^r(x_2^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,2,0,0,1,0,0,0,1}^r(x_2 - y_2)(x_2 + \\
& y_2)(x_3^2 + y_3^2)(x_5^2 + y_5^2) - 2ib_{0,0,2,0,0,1,0,1,0,0}^r(x_2^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,2,0,0,1,0,1,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_3^2 + y_3^2)(x_4^2 + y_4^2) - 2ib_{0,0,2,0,0,2,0,0,0,0}^r(x_2^2 + y_3^2)^2 + b_{0,0,2,0,0,2,0,0,0,0}^r(x_2 -
\end{aligned}$$

$$\begin{aligned}
& y_2)(x_2 + y_2)(x_3^2 + y_3^2)^2 + 2ib_{0,0,2,0,2,0,-2,0,0,0}^r(x_2x_3x_4 + x_2y_3y_4 + x_3y_2y_4 - x_4y_2y_3)(x_2x_3y_4 - \\
& x_2x_4y_3 - x_3x_4y_2 - y_2y_3y_4) + b_{0,0,2,0,2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 + x_2x_4y_3 + x_2y_3y_4 + x_3x_4y_2 + \\
& x_3y_2y_4 - x_4y_2y_3 + y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 - x_2x_4y_3 + x_2y_3y_4 - x_3x_4y_2 + x_3y_2y_4 - \\
& x_4y_2y_3 - y_2y_3y_4) - 2ib_{0,0,2,0,2,0,0,0,2,0}^r(x_2x_3x_5 - x_2y_3y_5 - x_3y_2y_5 - x_5y_2y_3)(x_2x_3y_5 + x_2x_5y_3 + \\
& x_3x_5y_2 - y_2y_3y_5) + b_{0,0,2,0,2,0,0,0,2,0}^r(x_2x_3x_5 - x_2x_3y_5 - x_2x_5y_3 - x_2y_3y_5 - x_3x_5y_2 - x_3y_2y_5 - \\
& x_5y_2y_3 + y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 + x_2x_5y_3 - x_2y_3y_5 + x_3x_5y_2 - x_3y_2y_5 - x_5y_2y_3 - \\
& y_2y_3y_5) - 2ib_{0,0,2,1,0,0,0,0,0,1}^rx_2y_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,2,1,0,0,0,0,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 + \\
& y_2^2)(x_5^2 + y_5^2) - 2ib_{0,0,2,1,0,0,0,1,0,0}^rx_2y_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{0,0,2,1,0,0,0,1,0,0}^r(x_2 - y_2)(x_2 + \\
& y_2)(x_2^2 + y_2^2)(x_4^2 + y_4^2) - 2ib_{0,0,2,1,0,1,0,0,0,0}^rx_2y_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{0,0,2,1,0,1,0,0,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_2^2 + y_2^2)(x_3^2 + y_3^2) - 2ib_{0,0,2,2,0,0,0,0,0,0}^rx_2y_2(x_2^2 + y_2^2)^2 + b_{0,0,2,2,0,0,0,0,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_2^2 + y_2^2)^2 + b_{0,0,3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4x_5 + x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 + \\
& x_2^3x_5y_3y_4 + 3x_2^2x_3x_4y_2y_5 - 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 + 3x_2^2y_2y_3y_4y_5 - \\
& 3x_2x_3x_4x_5y_2^2 - 3x_2x_3y_2^2y_4y_5 + 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 - x_3x_4y_2^3y_5 + \\
& x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 - y_2^3y_3y_4y_5) + ib_{0,0,3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4y_5 - x_2^3x_3x_5y_4 + \\
& x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 - 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 - \\
& 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4x_5y_2^2y_5 + 3x_2x_3x_5y_2^2y_4 - 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 + \\
& x_3x_4x_5y_2^3 + x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) + b_{0,0,3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4x_5 - \\
& x_2^3x_3y_4y_5 + x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 + 3x_2^2x_3x_4y_2y_5 + 3x_2^2x_3x_5y_2y_4 - \\
& 3x_2^2x_4x_5y_2y_3 + 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 - 3x_2x_4y_2^2y_3y_5 - \\
& 3x_2x_5y_2^2y_3y_4 - x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 + x_4x_5y_2^3y_3 - y_2^3y_3y_4y_5) + \\
& ib_{0,0,3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 - x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 + \\
& 3x_2^2x_3y_2y_4y_5 - 3x_2^2x_4y_2y_3y_5 - 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 + \\
& 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 + x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) + \\
& b_{0,0,3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 - x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 - \\
& 3x_2^2x_3x_5y_2y_4 - 3x_2^2x_4x_5y_2y_3 + 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 + \\
& 3x_2x_4y_2^2y_3y_5 + 3x_2x_5y_2^2y_3y_4 + x_3x_4y_2^3y_5 + x_3x_5y_2^3y_4 + x_4x_5y_2^3y_3 - y_2^3y_3y_4y_5) - \\
& ib_{0,0,3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 - x_2^3y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 - \\
& 3x_2^2x_3y_2y_4y_5 - 3x_2^2x_4y_2y_3y_5 - 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 - \\
& 3x_2x_4x_5y_2^2y_3 + 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 + x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) + \\
& 2ib_{0,0,4,0,0,0,0,0,-2,0}^r(x_2^2x_5 + 2x_2y_2y_5 - x_5y_2^2)(x_2^2y_5 - 2x_2x_5y_2 - y_2^2y_5) + b_{0,0,4,0,0,0,0,0,-2,0}^r(x_2^2x_5 - \\
& x_2^2y_5 + 2x_2x_5y_2 + 2x_2y_2y_5 - x_5y_2^2 + y_2^2y_5)(x_2^2x_5 + x_2^2y_5 - 2x_2x_5y_2 + 2x_2y_2y_5 - x_5y_2^2 - \\
& y_2^2y_5) - 2ib_{0,0,4,0,0,0,2,0,0,0}^r(x_2^2x_4 - 2x_2y_2y_4 - x_4y_2^2)(x_2^2y_4 + 2x_2x_4y_2 - y_2^2y_4) + \\
& b_{0,0,4,0,0,0,2,0,0,0}^r(x_2^2x_4 - x_2^2y_4 - 2x_2x_4y_2 - 2x_2y_2y_4 - x_4y_2^2 + y_2^2y_4)(x_2^2x_4 + x_2^2y_4 + \\
& 2x_2x_4y_2 - 2x_2y_2y_4 - x_4y_2^2 - y_2^2y_4) - 2ib_{0,0,4,0,2,0,0,0,0,0}^r(x_2^2x_3 - 2x_2y_2y_3 - x_3y_2^2)(x_2^2y_3 + \\
& 2x_2x_3y_2 - y_2^2y_3) + b_{0,0,4,0,2,0,0,0,0,0}^r(x_2^2x_3 - x_2^2y_3 - 2x_2x_3y_2 - 2x_2y_2y_3 - x_3y_2^2 + \\
& y_2^2y_3)(x_2^2x_3 + x_2^2y_3 + 2x_2x_3y_2 - 2x_2y_2y_3 - x_3y_2^2 - y_2^2y_3) + b_{0,1,-1,0,-1,0,-1,0,1,0}^r(x_1^2 + \\
& y_1^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 - \\
& y_2y_3y_4y_5) - ib_{0,1,-1,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,1,-1,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + \\
& ib_{0,1,-1,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + 2ib_{0,1,-2,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,1,-2,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) - \\
& 2ib_{0,1,-2,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + b_{0,1,-2,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2x_4 - x_2y_4 + \\
& x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) - 2ib_{0,1,-2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2x_3 + y_2y_3)(x_2y_3 - \\
& x_3y_2) + b_{0,1,-2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + \\
& 4ib_{0,1,-4,0,0,0,0,0,0,0}^r x_2y_2(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2) + b_{0,1,-4,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 - 2x_2y_2 - \\
& y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) + 2ib_{0,1,0,0,0,-2,0,0,0,0,1}^r x_3y_3(x_1^2 + y_1^2)(x_5^2 + y_5^2) + b_{0,1,0,0,0,-2,0,0,0,0,1}^r(x_1^2 + \\
& y_1^2)(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) + 2ib_{0,1,0,0,0,-2,0,0,1,0,0}^r x_3y_3(x_1^2 + y_1^2)(x_4^2 + y_4^2) + \\
& b_{0,1,0,0,0,-2,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2) + 2ib_{0,1,0,0,0,-2,1,0,0,0,0}^r x_3y_3(x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2) + b_{0,1,0,0,0,-2,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + 2ib_{0,1,0,0,0,0,-2,0,0,1}^r x_4y_4(x_1^2 + \\
& y_1^2)(x_5^2 + y_5^2) + b_{0,1,0,0,0,0,-2,0,0,1}^r(x_1^2 + y_1^2)(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) + \\
& 2ib_{0,1,0,0,0,0,-2,1,0,0}^r x_4y_4(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{0,1,0,0,0,0,-2,1,0,0}^r(x_1^2 + y_1^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + \\
& y_4^2) + 4ib_{0,1,0,0,0,0,0,-4,0}^r x_5y_5(x_1^2 + y_1^2)(x_5 - y_5)(x_5 + y_5) + b_{0,1,0,0,0,0,0,-4,0}^r(x_1^2 + y_1^2)(x_5^2 - 2x_5y_5 - \\
& y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) - 2ib_{0,1,0,0,0,0,0,0,2,1}^r x_5y_5(x_1^2 + y_1^2)(x_5^2 + y_5^2) + b_{0,1,0,0,0,0,0,0,2,1}^r(x_1^2 + \\
& y_1^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) - 2ib_{0,1,0,0,0,0,0,1,2,0}^r x_5y_5(x_1^2 + y_1^2)(x_4^2 + y_4^2) + \\
& b_{0,1,0,0,0,0,0,1,2,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) + 2ib_{0,1,0,0,0,0,2,0,-2,0}^r(x_1^2 + y_1^2)(x_4x_5 + \\
& y_4y_5)(x_4y_5 - x_5y_4) + b_{0,1,0,0,0,0,2,0,-2,0}^r(x_1^2 + y_1^2)(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + \\
& y_4y_5) - 4ib_{0,1,0,0,0,0,4,0,0,0}^r x_4y_4(x_1^2 + y_1^2)(x_4 - y_4)(x_4 + y_4) + b_{0,1,0,0,0,0,4,0,0,0}^r(x_1^2 + y_1^2)(x_4^2 - 2x_4y_4 - \\
& y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) + 2ib_{0,1,0,0,0,1,-2,0,0,0}^r x_4y_4(x_1^2 + y_1^2)(x_3^2 + y_3^2) + b_{0,1,0,0,0,1,-2,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) - 2ib_{0,1,0,0,0,1,0,0,2,0}^r x_5y_5(x_1^2 + y_1^2)(x_3^2 + y_3^2) + \\
& b_{0,1,0,0,0,1,0,0,2,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) + 2ib_{0,1,0,0,2,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_3x_5 + \\
& y_3y_5)(x_3y_5 - x_5y_3) + b_{0,1,0,0,2,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + \\
& y_3y_5) - 2ib_{0,1,0,0,2,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + b_{0,1,0,0,2,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_3x_4 - \\
& x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) - 4ib_{0,1,0,0,4,0,0,0,0,0}^r x_3y_3(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + \\
& y_3) + b_{0,1,0,0,4,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) + \\
& 2ib_{0,1,0,1,-2,0,0,0,0,0}^r x_3y_3(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,0,1,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + \\
& y_3) + 2ib_{0,1,0,1,0,0,-2,0,0,0}^r x_4y_4(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,0,1,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_4 - \\
& y_4)(x_4 + y_4) - 2ib_{0,1,0,1,0,0,0,0,2,0}^r x_5y_5(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,0,1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_2^2 + \\
& y_2^2)(x_5 - y_5)(x_5 + y_5) + b_{0,1,1,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + ib_{0,1,1,0,-1,0,-1,0,-1,0}^r(x_1^2 + \\
& y_1^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + \\
& x_5y_2y_3y_4) + b_{0,1,1,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - \\
& x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - ib_{0,1,1,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 + \\
& x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,1,1,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - ib_{0,1,1,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) - \\
& 2ib_{0,1,2,0,0,0,0,0,0,1}^r x_2y_2(x_1^2 + y_1^2)(x_5^2 + y_5^2) + b_{0,1,2,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_5^2 + \\
& y_5^2) - 2ib_{0,1,2,0,0,0,0,1,0,0}^r x_2y_2(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{0,1,2,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + \\
& y_2)(x_4^2 + y_4^2) - 2ib_{0,1,2,0,0,1,0,0,0,0}^r x_2y_2(x_1^2 + y_1^2)(x_3^2 + y_3^2) + b_{0,1,2,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_2 - \\
& y_2)(x_2 + y_2)(x_3^2 + y_3^2) - 2ib_{0,1,2,1,0,0,0,0,0,0}^r x_2y_2(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,2,1,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_2 - y_2)(x_2 + y_2)(x_2^2 + y_2^2) + 2ib_{0,2,0,0,0,-2,0,0,0,0,0}^r x_3y_3(x_1^2 + y_1^2)^2 + b_{0,2,0,0,0,-2,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)^2(x_3 - y_3)(x_3 + y_3) + 2ib_{0,2,0,0,0,0,-2,0,0,0}^r x_4y_4(x_1^2 + y_1^2)^2 + b_{0,2,0,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)^2(x_4 -
\end{aligned}$$

$$\begin{aligned}
& y_4)(x_4 + y_4) - 2ib_{0,2,0,0,0,0,0,0,2,0}^r x_5 y_5 (x_1^2 + y_1^2)^2 + b_{0,2,0,0,0,0,0,0,2,0}^r (x_1^2 + y_1^2)^2 (x_5 - y_5)(x_5 + y_5) - \\
& 2ib_{0,2,2,0,0,0,0,0,0,0}^r x_2 y_2 (x_1^2 + y_1^2)^2 + b_{0,2,2,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)^2 (x_2 - y_2)(x_2 + y_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_2 x_3^2 - x_1 x_2 y_3^2 - 2x_1 x_3 y_2 y_3 + 2x_2 x_3 y_1 y_3 + x_3^2 y_1 y_2 - \\
& y_1 y_2 y_3^2) + ib_{1,0,-1,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2)(2x_1 x_2 x_3 y_3 + x_1 x_3^2 y_2 - x_1 y_2 y_3^2 - x_2 x_3^2 y_1 + \\
& x_2 y_1 y_3^2 + 2x_3 y_1 y_2 y_3) + b_{1,0,-1,0,-2,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_2 x_3^2 - x_1 x_2 y_3^2 - 2x_1 x_3 y_2 y_3 + \\
& 2x_2 x_3 y_1 y_3 + x_3^2 y_1 y_2 - y_1 y_2 y_3^2) + ib_{1,0,-1,0,-2,0,0,1,0,0}^r (x_4^2 + y_4^2)(2x_1 x_2 x_3 y_3 + x_1 x_3^2 y_2 - \\
& x_1 y_2 y_3^2 - x_2 x_3^2 y_1 + x_2 y_1 y_3^2 + 2x_3 y_1 y_2 y_3) + b_{1,0,-1,0,-2,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1 x_2 x_3^2 - \\
& x_1 x_2 y_3^2 - 2x_1 x_3 y_2 y_3 + 2x_2 x_3 y_1 y_3 + x_3^2 y_1 y_2 - y_1 y_2 y_3^2) + ib_{1,0,-1,0,-2,1,0,0,0,0}^r (x_3^2 + \\
& y_3^2)(2x_1 x_2 x_3 y_3 + x_1 x_3^2 y_2 - x_1 y_2 y_3^2 - x_2 x_3^2 y_1 + x_2 y_1 y_3^2 + 2x_3 y_1 y_2 y_3) + \\
& b_{1,0,-1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2)(x_1 x_2 x_4^2 - x_1 x_2 y_4^2 - 2x_1 x_4 y_2 y_4 + 2x_2 x_4 y_1 y_4 + x_4^2 y_1 y_2 - \\
& y_1 y_2 y_4^2) + ib_{1,0,-1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2)(2x_1 x_2 x_4 y_4 + x_1 x_4^2 y_2 - x_1 y_2 y_4^2 - x_2 x_4^2 y_1 + \\
& x_2 y_1 y_4^2 + 2x_4 y_1 y_2 y_4) + b_{1,0,-1,0,0,0,-2,1,0,0}^r (x_4^2 + y_4^2)(x_1 x_2 x_4^2 - x_1 x_2 y_4^2 - 2x_1 x_4 y_2 y_4 + \\
& 2x_2 x_4 y_1 y_4 + x_4^2 y_1 y_2 - y_1 y_2 y_4^2) + ib_{1,0,-1,0,0,0,-2,1,0,0}^r (x_4^2 + y_4^2)(2x_1 x_2 x_4 y_4 + x_1 x_4^2 y_2 - \\
& x_1 y_2 y_4^2 - x_2 x_4^2 y_1 + x_2 y_1 y_4^2 + 2x_4 y_1 y_2 y_4) + b_{1,0,-1,0,0,0,0,-4,0}^r (x_1 x_2 x_5^4 - 6x_1 x_2 x_5^2 y_5^2 + \\
& x_1 x_2 y_5^4 - 4x_1 x_5^3 y_2 y_5 + 4x_1 x_5 y_2 y_5^3 + 4x_2 x_5^3 y_1 y_5 - 4x_2 x_5 y_1 y_5^3 + x_5^4 y_1 y_2 - \\
& 6x_5^2 y_1 y_2 y_5^2 + y_1 y_2 y_5^4) + ib_{1,0,-1,0,0,0,0,0,-4,0}^r (4x_1 x_2 x_5^3 y_5 - 4x_1 x_2 x_5 y_5^3 + x_1 x_5^4 y_2 - \\
& 6x_1 x_5^2 y_2 y_5^2 + x_1 y_2 y_5^4 - x_2 x_5^4 y_1 + 6x_2 x_5^2 y_1 y_5^2 - x_2 y_1 y_5^4 + 4x_5^3 y_1 y_2 y_5 - \\
& 4x_5 y_1 y_2 y_5^3) + b_{1,0,-1,0,0,0,0,0,2,1}^r (x_5^2 + y_5^2)(x_1 x_2 x_5^2 - x_1 x_2 y_5^2 + 2x_1 x_5 y_2 y_5 - 2x_2 x_5 y_1 y_5 + \\
& x_5^2 y_1 y_2 - y_1 y_2 y_5^2) - ib_{1,0,-1,0,0,0,0,0,2,1}^r (x_5^2 + y_5^2)(2x_1 x_2 x_5 y_5 - x_1 x_5^2 y_2 + x_1 y_2 y_5^2 + \\
& x_2 x_5^2 y_1 - x_2 y_1 y_5^2 + 2x_5 y_1 y_2 y_5) + b_{1,0,-1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2)(x_1 x_2 x_5^2 - x_1 x_2 y_5^2 + \\
& 2x_1 x_5 y_2 y_5 - 2x_2 x_5 y_1 y_5 + x_5^2 y_1 y_2 - y_1 y_2 y_5^2) - ib_{1,0,-1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2)(2x_1 x_2 x_5 y_5 - \\
& x_1 x_5^2 y_2 + x_1 y_2 y_5^2 + x_2 x_5^2 y_1 - x_2 y_1 y_5^2 + 2x_5 y_1 y_2 y_5) + b_{1,0,-1,0,0,0,2,0,-2,0}^r (x_1 x_2 x_4^2 x_5^2 - \\
& x_1 x_2 x_4^2 y_5^2 + 4x_1 x_2 x_4 x_5 y_4 y_5 - x_1 x_2 x_5^2 y_4^2 + x_1 x_2 y_4^2 y_5^2 - 2x_1 x_4^2 x_5 y_2 y_5 + \\
& 2x_1 x_4 x_5^2 y_2 y_4 - 2x_1 x_4 y_2 y_4 y_5^2 + 2x_1 x_5 y_2 y_4^2 y_5 + 2x_2 x_4^2 x_5 y_1 y_5 - 2x_2 x_4 x_5^2 y_1 y_4 + \\
& 2x_2 x_4 y_1 y_4 y_5^2 - 2x_2 x_5 y_1 y_4^2 y_5 + x_4^2 x_5^2 y_1 y_2 - x_4^2 y_1 y_2 y_5^2 + 4x_4 x_5 y_1 y_2 y_4 y_5 - \\
& x_5^2 y_1 y_2 y_4^2 + y_1 y_2 y_4^2 y_5^2) + ib_{1,0,-1,0,0,0,2,0,-2,0}^r (2x_1 x_2 x_4^2 x_5 y_5 - 2x_1 x_2 x_4 x_5^2 y_4 + \\
& 2x_1 x_2 x_4 y_4 y_5^2 - 2x_1 x_2 x_5 y_4^2 y_5 + x_1 x_4^2 x_5^2 y_2 - x_1 x_4^2 y_2 y_5^2 + 4x_1 x_4 x_5 y_2 y_4 y_5 - \\
& x_1 x_5^2 y_2 y_4^2 + x_1 y_2 y_4^2 y_5^2 - x_2 x_4^2 x_5^2 y_1 + x_2 x_4^2 y_1 y_5^2 - 4x_2 x_4 x_5 y_1 y_4 y_5 + \\
& x_2 x_5^2 y_1 y_4^2 - x_2 y_1 y_4^2 y_5^2 + 2x_4^2 x_5 y_1 y_2 y_5 - 2x_4 x_5^2 y_1 y_2 y_4 + 2x_4 y_1 y_2 y_4 y_5^2 - \\
& 2x_5 y_1 y_2 y_4^2 y_5) + b_{1,0,-1,0,0,0,4,0,0,0}^r (x_1 x_2 x_4^4 - 6x_1 x_2 x_4^2 y_4^2 + x_1 x_2 y_4^4 + 4x_1 x_4^3 y_2 y_4 - \\
& 4x_1 x_4 y_2 y_4^3 - 4x_2 x_4^3 y_1 y_4 + 4x_2 x_4 y_1 y_4^3 + x_4^4 y_1 y_2 - 6x_4^2 y_1 y_2 y_4^2 + y_1 y_2 y_4^4) - \\
& ib_{1,0,-1,0,0,0,4,0,0,0}^r (4x_1 x_2 x_4^3 y_4 - 4x_1 x_2 x_4 y_4^3 - x_1 x_4^4 y_2 + 6x_1 x_4^2 y_2 y_4^2 - x_1 y_2 y_4^4 + \\
& x_2 x_4^4 y_1 - 6x_2 x_4^2 y_1 y_4^2 + x_2 y_1 y_4^4 + 4x_4^3 y_1 y_2 y_4 - 4x_4 y_1 y_2 y_4^3) + b_{1,0,-1,0,0,1,-2,0,0,0}^r (x_3^2 + \\
& y_3^2)(x_1 x_2 x_4^2 - x_1 x_2 y_4^2 - 2x_1 x_4 y_2 y_4 + 2x_2 x_4 y_1 y_4 + x_4^2 y_1 y_2 - y_1 y_2 y_4^2) + \\
& ib_{1,0,-1,0,0,1,-2,0,0,0}^r (x_3^2 + y_3^2)(2x_1 x_2 x_4 y_4 + x_1 x_4^2 y_2 - x_1 y_2 y_4^2 - x_2 x_4^2 y_1 + x_2 y_1 y_4^2 + \\
& 2x_4 y_1 y_2 y_4) + b_{1,0,-1,0,0,1,0,0,2,0}^r (x_3^2 + y_3^2)(x_1 x_2 x_5^2 - x_1 x_2 y_5^2 + 2x_1 x_5 y_2 y_5 - 2x_2 x_5 y_1 y_5 + \\
& x_5^2 y_1 y_2 - y_1 y_2 y_5^2) - ib_{1,0,-1,0,0,1,0,0,2,0}^r (x_3^2 + y_3^2)(2x_1 x_2 x_5 y_5 - x_1 x_5^2 y_2 + x_1 y_2 y_5^2 + \\
& x_2 x_5^2 y_1 - x_2 y_1 y_5^2 + 2x_5 y_1 y_2 y_5) + b_{1,0,-1,0,2,0,0,0,-2,0}^r (x_1 x_2 x_3^2 x_5^2 - x_1 x_2 x_3^2 y_5^2 + \\
& 4x_1 x_2 x_3 x_5 y_3 y_5 - x_1 x_2 x_5^2 y_3^2 + x_1 x_2 y_3^2 y_5^2 - 2x_1 x_3^2 x_5 y_2 y_5 + 2x_1 x_3 x_5^2 y_2 y_3 - \\
& 2x_1 x_3 y_2 y_3 y_5^2 + 2x_1 x_5 y_2 y_3^2 y_5 + 2x_2 x_3^2 x_5 y_1 y_5 - 2x_2 x_3 x_5^2 y_1 y_3 + 2x_2 x_3 y_1 y_3 y_5^2 - \\
& 2x_2 x_5 y_1 y_3^2 y_5 + x_3^2 x_5^2 y_1 y_2 - x_3^2 y_1 y_2 y_5^2 + 4x_3 x_5 y_1 y_2 y_3 y_5 - x_5^2 y_1 y_2 y_3^2 + \\
& y_1 y_2 y_3^2 y_5^2) + ib_{1,0,-1,0,2,0,0,0,-2,0}^r (2x_1 x_2 x_3^2 x_5 y_5 - 2x_1 x_2 x_3 x_5^2 y_3 + 2x_1 x_2 x_3 y_3 y_5^2 -
\end{aligned}$$

$$\begin{aligned}
& 2x_1x_2x_5y_3^2y_5 + x_1x_3^2x_5^2y_2 - x_1x_3^2y_2y_5^2 + 4x_1x_3x_5y_2y_3y_5 - x_1x_5^2y_2y_3^2 + \\
& x_1y_2y_3^2y_5^2 - x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 - 4x_2x_3x_5y_1y_3y_5 + x_2x_5^2y_1y_3^2 - \\
& x_2y_1y_3^2y_5^2 + 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 - 2x_5y_1y_2y_3^2y_5 + \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + \\
& x_1x_2y_3^2y_4^2 + 2x_1x_3^2x_4y_2y_4 + 2x_1x_3x_4^2y_2y_3 - 2x_1x_3y_2y_3y_4^2 - 2x_1x_4y_2y_3^2y_4 - \\
& 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 + x_3^2x_4^2y_1y_2 - \\
& x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 - x_4^2y_1y_2y_3^2 + y_1y_2y_3^2y_4^2) - \\
& ib_{1,0,-1,0,2,0,2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 - \\
& x_1x_3^2x_4^2y_2 + x_1x_3^2y_2y_4^2 + 4x_1x_3x_4y_2y_3y_4 + x_1x_4^2y_2y_3^2 - x_1y_2y_3^2y_4^2 + \\
& x_2x_3^2x_4^2y_1 - x_2x_3^2y_1y_4^2 - 4x_2x_3x_4y_1y_3y_4 - x_2x_4^2y_1y_3^2 + x_2y_1y_3^2y_4^2 + \\
& 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - 2x_3y_1y_2y_3y_4^2 - 2x_4y_1y_2y_3^2y_4) + \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r(x_1x_2x_3^4 - 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 + 4x_1x_3^3y_2y_3 - 4x_1x_3y_2y_3^3 - \\
& 4x_2x_3^3y_1y_3 + 4x_2x_3y_1y_3^3 + x_3^4y_1y_2 - 6x_3^2y_1y_2y_3^2 + y_1y_2y_3^4) - \\
& ib_{1,0,-1,0,4,0,0,0,0,0}^r(4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 - x_1x_3^4y_2 + 6x_1x_3^2y_2y_3^2 - x_1y_2y_3^4 + \\
& x_2x_3^4y_1 - 6x_2x_3^2y_1y_3^2 + x_2y_1y_3^4 + 4x_3^3y_1y_2y_3 - 4x_3y_1y_2y_3^3) + b_{1,0,-1,1,-2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) + \\
& ib_{1,0,-1,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_3y_3 + x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + \\
& 2x_3y_1y_2y_3) + b_{1,0,-1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + \\
& x_4^2y_1y_2 - y_1y_2y_4^2) + ib_{1,0,-1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - \\
& x_2x_4^2y_1 + x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{1,0,-1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + \\
& 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) - ib_{1,0,-1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 - \\
& x_1x_5^2y_2 + x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,0,-2,0,-1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4x_5 + \\
& x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 - \\
& 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 + \\
& x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + \\
& 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 - \\
& x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) - ib_{1,0,-2,0,-1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4y_5 - \\
& x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 - \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 + \\
& x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 - \\
& x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{1,0,-2,0,1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + \\
& x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + \\
& 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 + \\
& x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 + \\
& 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + \\
& x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) + ib_{1,0,-2,0,1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - \\
& x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + \\
& 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 + \\
& x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 + \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + \\
& x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{1,0,-3,0,0,0,0,0,-2,0}^r(x_1x_2^3x_5^2 - x_1x_2^3y_5^2 -
\end{aligned}$$



$$\begin{aligned}
& 6x_1x_2^2x_5y_2y_5 - 3x_1x_2x_5^2y_2^2 + 3x_1x_2y_2^2y_5^2 + 2x_1x_5y_2^3y_5 + 2x_2^3x_5y_1y_5 + \\
& 3x_2^2x_5^2y_1y_2 - 3x_2^2y_1y_2y_5^2 - 6x_2x_5y_1y_2^2y_5 - x_5^2y_1y_2^3 + y_1y_2^3y_5^2) + \\
& ib_{1,0,-3,0,0,0,0,-2,0}^r(2x_1x_2^3x_5y_5 + 3x_1x_2^2x_5^2y_2 - 3x_1x_2^2y_2y_5^2 - 6x_1x_2x_5y_2^2y_5 - \\
& x_1x_5^2y_2^3 + x_1y_2^3y_5^2 - x_2^3x_5^2y_1 + x_2^3y_1y_5^2 + 6x_2^2x_5y_1y_2y_5 + 3x_2x_5^2y_1y_2^2 - \\
& 3x_2y_1y_2^2y_5^2 - 2x_5y_1y_2^3y_5) + b_{1,0,-3,0,0,0,2,0,0,0}^r(x_1x_2^3x_4^2 - x_1x_2^3y_4^2 + 6x_1x_2^2x_4y_2y_4 - \\
& 3x_1x_2x_4^2y_2^2 + 3x_1x_2y_2^2y_4^2 - 2x_1x_4y_2^3y_4 - 2x_2^3x_4y_1y_4 + 3x_2^2x_4^2y_1y_2 - \\
& 3x_2^2y_1y_2y_4^2 + 6x_2x_4y_1y_2^2y_4 - x_4^2y_1y_2^3 + y_1y_2^3y_4^2) - ib_{1,0,-3,0,0,0,2,0,0,0}^r(2x_1x_2^3x_4y_4 - \\
& 3x_1x_2^2x_4^2y_2 + 3x_1x_2^2y_2y_4^2 - 6x_1x_2x_4y_2^2y_4 + x_1x_4^2y_2^3 - x_1y_2^3y_4^2 + x_2^3x_4^2y_1 - \\
& x_2^3y_1y_4^2 + 6x_2^2x_4y_1y_2y_4 - 3x_2x_4^2y_1y_2^2 + 3x_2y_1y_2^2y_4^2 - 2x_4y_1y_2^3y_4) + \\
& b_{1,0,-3,0,2,0,0,0,0,0}^r(x_1x_2^3x_3^2 - x_1x_2^3y_3^2 + 6x_1x_2^2x_3y_2y_3 - 3x_1x_2x_3^2y_2^2 + 3x_1x_2y_2^2y_3^2 - \\
& 2x_1x_3y_2^3y_3 - 2x_2^3x_3y_1y_3 + 3x_2^2x_3^2y_1y_2 - 3x_2^2y_1y_2y_3^2 + 6x_2x_3y_1y_2^2y_3 - \\
& x_2^3y_1y_2^3 + y_1y_2^3y_3^2) - ib_{1,0,-3,0,2,0,0,0,0,0}^r(2x_1x_2^3x_3y_3 - 3x_1x_2^2x_3^2y_2 + 3x_1x_2^2y_2y_3^2 - \\
& 6x_1x_2x_3y_2^2y_3 + x_1x_3^2y_2^3 - x_1y_2^3y_3^2 + x_2^3x_3^2y_1 - x_2^3y_1y_3^2 + 6x_2^2x_3y_1y_2y_3 - \\
& 3x_2x_3^2y_1y_2^2 + 3x_2y_1y_2^2y_3^2 - 2x_3y_1y_2^3y_3) + b_{1,0,-5,0,0,0,0,0,0,0}^r(x_1x_2^5 - 10x_1x_2^3y_2^2 + \\
& 5x_1x_2y_2^4 + 5x_2^4y_1y_2 - 10x_2^2y_1y_2^3 + y_1y_2^5) + ib_{1,0,-5,0,0,0,0,0,0,0}^r(5x_1x_2^4y_2 - 10x_1x_2^2y_2^3 + \\
& x_1y_2^5 - x_2^5y_1 + 10x_2^3y_1y_2^2 - 5x_2y_1y_2^4) + b_{1,0,0,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 - \\
& x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,0,0,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,0,0,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{1,0,0,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{1,0,0,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,0,0,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{1,0,0,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-3,0,1,0,-1,0}^r(x_1x_3^3x_4x_5 + x_1x_3^3y_4y_5 - \\
& 3x_1x_2^3x_4y_3y_5 + 3x_1x_2^3x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 - 3x_1x_3y_3^2y_4y_5 + x_1x_4y_3^3y_5 - \\
& x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 + 3x_2^3x_4x_5y_1y_3 + 3x_2^3y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 - y_1y_3^3y_4y_5) + \\
& ib_{1,0,0,0,-3,0,1,0,-1,0}^r(x_1x_3^3x_4y_5 - x_1x_3^3x_5y_4 + 3x_1x_2^3x_4x_5y_3 + 3x_1x_2^3y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 + 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 + \\
& 3x_2^3x_4y_1y_3y_5 - 3x_2^3x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 + \\
& x_5y_1y_3^3y_4) + b_{1,0,0,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - ib_{1,0,0,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - ib_{1,0,0,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + \\
& x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,1,0,-3,0,-1,0}^r(x_1x_3x_4^3x_5 - 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 + x_1x_3y_4^3y_5 + x_1x_4^3y_3y_5 + \\
& 3x_1x_4^2x_5y_3y_4 - 3x_1x_4y_3y_4^2y_5 - x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 + 3x_3x_4^2x_5y_1y_4 - \\
& 3x_3x_4y_1y_4^2y_5 - x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 + 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 - \\
& y_1y_3y_4^3y_5) + ib_{1,0,0,0,1,0,-3,0,-1,0}^r(x_1x_3x_4^3y_5 + 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 - \\
& x_1x_3x_5y_4^3 - x_1x_4^3x_5y_3 + 3x_1x_4^2y_3y_4y_5 + 3x_1x_4x_5y_3y_4^2 - x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 + \\
& 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 - x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 - 3x_4^2x_5y_1y_3y_4 + \\
& 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3) + b_{1,0,0,0,1,0,1,0,-3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 + \\
& 3x_1x_3x_5^2y_4y_5 - x_1x_3y_4y_5^3 + 3x_1x_4x_5^2y_3y_5 - x_1x_4y_3y_5^3 - x_1x_5^3y_3y_4 + \\
& 3x_1x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_1y_5 - x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 - \\
& x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 - 3x_5^2y_1y_3y_4y_5 + y_1y_3y_4y_5^3) + \\
& ib_{1,0,0,0,1,0,1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - x_1x_3x_5^3y_4 + 3x_1x_3x_5y_4y_5^2 - x_1x_4x_5^3y_3 + \\
& 3x_1x_4x_5y_3y_5^2 - 3x_1x_5^2y_3y_4y_5 + x_1y_3y_4y_5^3 - x_3x_4x_5^3y_1 + 3x_3x_4x_5y_1y_5^2 - \\
& 3x_3x_5^2y_1y_4y_5 + x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 + x_5^3y_1y_3y_4 - \\
& 3x_5y_1y_3y_4y_5^2) + b_{1,0,0,0,1,0,1,0,3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 - 3x_1x_3x_5^2y_4y_5 + \\
& x_1x_3y_4y_5^3 - 3x_1x_4x_5^2y_3y_5 + x_1x_4y_3y_5^3 - x_1x_5^3y_3y_4 + 3x_1x_5y_3y_4y_5^2 - \\
& 3x_3x_4x_5^2y_1y_5 + x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 - x_4x_5^3y_1y_3 + \\
& 3x_4x_5y_1y_3y_5^2 + 3x_5^2y_1y_3y_4y_5 - y_1y_3y_4y_5^3) - ib_{1,0,0,0,1,0,1,0,3,0}^r(3x_1x_3x_4x_5^2y_5 - \\
& x_1x_3x_4y_5^3 + x_1x_3x_5^3y_4 - 3x_1x_3x_5y_4y_5^2 + x_1x_4x_5^3y_3 - 3x_1x_4x_5y_3y_5^2 - \\
& 3x_1x_5^2y_3y_4y_5 + x_1y_3y_4y_5^3 + x_3x_4x_5^3y_1 - 3x_3x_4x_5y_1y_5^2 - 3x_3x_5^2y_1y_4y_5 + \\
& x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 - x_5^3y_1y_3y_4 + 3x_5y_1y_3y_4y_5^2) + \\
& b_{1,0,0,0,1,0,3,0,-1,0}^r(x_1x_3x_4^3x_5 + 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 - x_1x_3y_4^3y_5 + x_1x_4^3y_3y_5 - \\
& 3x_1x_4^2x_5y_3y_4 - 3x_1x_4y_3y_4^2y_5 + x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 - 3x_3x_4^2x_5y_1y_4 - \\
& 3x_3x_4y_1y_4^2y_5 + x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 - 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 + \\
& y_1y_3y_4^3y_5) + ib_{1,0,0,0,1,0,3,0,-1,0}^r(x_1x_3x_4^3y_5 - 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 + \\
& x_1x_3x_5y_4^3 - x_1x_4^3x_5y_3 - 3x_1x_4^2y_3y_4y_5 + 3x_1x_4x_5y_3y_4^2 + x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 - \\
& 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 + x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 + 3x_4^2x_5y_1y_3y_4 + \\
& 3x_4y_1y_3y_4^2y_5 - x_5y_1y_3y_4^3) + b_{1,0,0,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{1,0,0,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,3,0,1,0,-1,0}^r(x_1x_3^3x_4x_5 + x_1x_3^3y_4y_5 + \\
& 3x_1x_3^2x_4y_3y_5 - 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 - 3x_1x_3y_3^2y_4y_5 - x_1x_4y_3^3y_5 + \\
& x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 - 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 + x_4x_5y_1y_3^3 + y_1y_3^3y_4y_5) + \\
& ib_{1,0,0,0,3,0,1,0,-1,0}^r(x_1x_3^3x_4y_5 - x_1x_3^3x_5y_4 - 3x_1x_3^2x_4x_5y_3 - 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 + 3x_1x_3x_5y_3^2y_4 + x_1x_4x_5y_3^3 + x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 - \\
& 3x_3^2x_4y_1y_3y_5 + 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 + x_4y_1y_3^3y_5 - \\
& x_5y_1y_3^3y_4) + b_{1,0,0,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + ib_{1,0,0,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 +
\end{aligned}$$

$$\begin{aligned}
& x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - ib_{1,0,0,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - \\
& x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,1,1,0,-1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) - ib_{1,0,0,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + \\
& x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,1,0,-2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - \\
& x_1x_2x_3^2y_5^2 - 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 + \\
& 2x_1x_3x_5^2y_2y_3 - 2x_1x_3y_2y_3y_5^2 - 2x_1x_5y_2y_3^2y_5 + 2x_2x_3^2x_5y_1y_5 + 2x_2x_3x_5^2y_1y_3 - \\
& 2x_2x_3y_1y_3y_5^2 - 2x_2x_5y_1y_3^2y_5 - x_3^2x_5^2y_1y_2 + x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 + \\
& x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) + ib_{1,0,1,0,-2,0,0,0,-2,0}^r(2x_1x_2x_3^2x_5y_5 + 2x_1x_2x_3x_5^2y_3 - \\
& 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 - x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 + 4x_1x_3x_5y_2y_3y_5 + \\
& x_1x_5^2y_2y_3^2 - x_1y_2y_3^2y_5^2 - x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 + 4x_2x_3x_5y_1y_3y_5 + \\
& x_2x_5^2y_1y_3^2 - x_2y_1y_3^2y_5^2 - 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 + \\
& 2x_5y_1y_2y_3^2y_5) + b_{1,0,1,0,-2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 + 4x_1x_2x_3x_4y_3y_4 - \\
& x_1x_2x_4^2y_3^2 + x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 + 2x_1x_3x_4^2y_2y_3 - 2x_1x_3y_2y_3y_4^2 + \\
& 2x_1x_4y_2y_3^2y_4 - 2x_2x_3^2x_4y_1y_4 + 2x_2x_3x_4^2y_1y_3 - 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 - \\
& x_3^2x_4^2y_1y_2 + x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 + x_4^2y_1y_2y_3^2 - y_1y_2y_3^2y_4^2) - \\
& ib_{1,0,1,0,-2,0,2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 - 2x_1x_2x_3x_4^2y_3 + 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 + \\
& x_1x_3^2x_4^2y_2 - x_1x_3^2y_2y_4^2 + 4x_1x_3x_4y_2y_3y_4 - x_1x_4^2y_2y_3^2 + x_1y_2y_3^2y_4^2 + \\
& x_2x_3^2x_4^2y_1 - x_2x_3^2y_1y_4^2 + 4x_2x_3x_4y_1y_3y_4 - x_2x_4^2y_1y_3^2 + x_2y_1y_3^2y_4^2 - \\
& 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - 2x_3y_1y_2y_3y_4^2 + 2x_4y_1y_2y_3^2y_4) + \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 - 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + \\
& x_1x_2y_4^2y_5^2 + 2x_1x_4^2x_5y_2y_5 + 2x_1x_4x_5^2y_2y_4 - 2x_1x_4y_2y_4y_5^2 - 2x_1x_5y_2y_4^2y_5 + \\
& 2x_2x_4^2x_5y_1y_5 + 2x_2x_4x_5^2y_1y_4 - 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 - x_4^2x_5^2y_1y_2 + \\
& x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 + x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) + \\
& ib_{1,0,1,0,0,0,-2,0,-2,0}^r(2x_1x_2x_4^2x_5y_5 + 2x_1x_2x_4x_5^2y_4 - 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 - \\
& x_1x_4^2x_5^2y_2 + x_1x_4^2y_2y_5^2 + 4x_1x_4x_5y_2y_4y_5 + x_1x_5^2y_2y_4^2 - x_1y_2y_4^2y_5^2 - \\
& x_2x_4^2x_5^2y_1 + x_2x_4^2y_1y_5^2 + 4x_2x_4x_5y_1y_4y_5 + x_2x_5^2y_1y_4^2 - x_2y_1y_4^2y_5^2 - \\
& 2x_4^2x_5y_1y_2y_5 - 2x_4x_5^2y_1y_2y_4 + 2x_4y_1y_2y_4y_5^2 + 2x_5y_1y_2y_4^2y_5) + b_{1,0,1,0,0,0,0,0,0,2}^r(x_5^2 + \\
& y_5^2)^2(x_1x_2 - y_1y_2) - ib_{1,0,1,0,0,0,0,0,0,2}^r(x_5^2 + y_5^2)^2(x_1y_2 + x_2y_1) + b_{1,0,1,0,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2)(x_1x_2 - y_1y_2) - ib_{1,0,1,0,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)(x_1y_2 + x_2y_1) + b_{1,0,1,0,0,0,0,2,0,0}^r(x_4^2 + \\
& y_4^2)^2(x_1x_2 - y_1y_2) - ib_{1,0,1,0,0,0,0,2,0,0}^r(x_4^2 + y_4^2)^2(x_1y_2 + x_2y_1) + b_{1,0,1,0,0,0,0,2,0,2,0}^r(x_1x_2x_4^2x_5^2 - \\
& x_1x_2x_4^2y_5^2 - 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + x_1x_2y_4^2y_5^2 - 2x_1x_4^2x_5y_2y_5 - \\
& 2x_1x_4x_5^2y_2y_4 + 2x_1x_4y_2y_4y_5^2 + 2x_1x_5y_2y_4^2y_5 - 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + \\
& 2x_2x_4y_1y_4y_5^2 + 2x_2x_5y_1y_4^2y_5 - x_4^2x_5^2y_1y_2 + x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 + \\
& x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) - ib_{1,0,1,0,0,0,0,2,0,2,0}^r(2x_1x_2x_4^2x_5y_5 + 2x_1x_2x_4x_5^2y_4 - \\
& 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 + x_1x_4^2x_5^2y_2 - x_1x_4^2y_2y_5^2 - 4x_1x_4x_5y_2y_4y_5 - \\
& x_1x_5^2y_2y_4^2 + x_1y_2y_4^2y_5^2 + x_2x_4^2x_5^2y_1 - x_2x_4^2y_1y_5^2 - 4x_2x_4x_5y_1y_4y_5 - \\
& x_2x_5^2y_1y_4^2 + x_2y_1y_4^2y_5^2 - 2x_4^2x_5y_1y_2y_5 - 2x_4x_5^2y_1y_2y_4 + 2x_4y_1y_2y_4y_5^2 + \\
& 2x_5y_1y_2y_4^2y_5) + b_{1,0,1,0,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) - ib_{1,0,1,0,0,0,1,0,0,0,1}^r(x_3^2 + \\
& y_3^2)(x_5^2 + y_5^2)(x_1y_2 + x_2y_1) + b_{1,0,1,0,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1x_2 - y_1y_2) -
\end{aligned}$$

$$\begin{aligned}
& ib_{1,0,1,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1y_2 + x_2y_1) + b_{1,0,1,0,0,2,0,0,0,0}^r(x_3^2 + y_3^2)^2(x_1x_2 - y_1y_2) - \\
& ib_{1,0,1,0,0,2,0,0,0,0}^r(x_3^2 + y_3^2)^2(x_1y_2 + x_2y_1) + b_{1,0,1,0,2,0,-2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 + \\
& 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_3^2y_3^2 + x_1x_2y_3^2y_4^2 + 2x_1x_3^2x_4y_2y_4 - 2x_1x_3x_4^2y_2y_3 + \\
& 2x_1x_3y_2y_3y_4^2 - 2x_1x_4y_2y_3^2y_4 + 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 - \\
& 2x_2x_4y_1y_3^2y_4 - x_3^2x_4^2y_1y_2 + x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 + x_4^2y_1y_2y_3^2 - \\
& y_1y_2y_3^2y_4^2) + ib_{1,0,1,0,2,0,-2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 - 2x_1x_2x_3x_4^2y_3 + 2x_1x_2x_3y_3y_4^2 - \\
& 2x_1x_2x_4y_3^2y_4 - x_1x_3^2x_4^2y_2 + x_1x_3^2y_2y_4^2 - 4x_1x_3x_4y_2y_3y_4 + x_1x_4^2y_2y_3^2 - \\
& x_1y_2y_3^2y_4^2 - x_2x_3^2x_4^2y_1 + x_2x_3^2y_1y_4^2 - 4x_2x_3x_4y_1y_3y_4 + x_2x_4^2y_1y_3^2 - \\
& x_2y_1y_3^2y_4^2 - 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - 2x_3y_1y_2y_3y_4^2 + 2x_4y_1y_2y_3^2y_4) + \\
& b_{1,0,1,0,2,0,0,0,2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 - 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + \\
& x_1x_2y_3^2y_5^2 - 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 + 2x_1x_3y_2y_3y_5^2 + 2x_1x_5y_2y_3^2y_5 - \\
& 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 + 2x_2x_5y_1y_3^2y_5 - x_3^2x_5^2y_1y_2 + \\
& x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 + x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) - \\
& ib_{1,0,1,0,2,0,0,0,2,0}^r(2x_1x_2x_3^2x_5y_5 + 2x_1x_2x_3x_5^2y_3 - 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 + \\
& x_1x_3^2x_5^2y_2 - x_1x_3^2y_2y_5^2 - 4x_1x_3x_5y_2y_3y_5 - x_1x_5^2y_2y_3^2 + x_1y_2y_3^2y_5^2 + \\
& x_2x_3^2x_5^2y_1 - x_2x_3^2y_1y_5^2 - 4x_2x_3x_5y_1y_3y_5 - x_2x_5^2y_1y_3^2 + x_2y_1y_3^2y_5^2 - \\
& 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 + 2x_5y_1y_2y_3^2y_5) + b_{1,0,1,1,0,0,0,0,0,1}^r(x_2^2 + \\
& y_2^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) - ib_{1,0,1,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2)(x_1y_2 + x_2y_1) + \\
& b_{1,0,1,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_1x_2 - y_1y_2) - ib_{1,0,1,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + \\
& y_4^2)(x_1y_2 + x_2y_1) + b_{1,0,1,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_1x_2 - y_1y_2) - ib_{1,0,1,1,0,1,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_3^2 + y_3^2)(x_1y_2 + x_2y_1) + b_{1,0,1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1x_2 - y_1y_2) - ib_{1,0,1,2,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)^2(x_1y_2 + x_2y_1) + b_{1,0,2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 + \\
& x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 - \\
& x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 + \\
& 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 - \\
& y_1y_2^2y_3y_4y_5) + ib_{1,0,2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 + \\
& x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 + \\
& x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 + \\
& x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 - \\
& 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - \\
& y_1y_2^2y_3y_4y_5) + ib_{1,0,2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 + \\
& x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 + \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 + \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 - \\
& x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 + \\
& x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 - \\
& 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - \\
& y_1y_2^2y_3y_4y_5) + ib_{1,0,2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 + \\
& x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 + \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 + \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 - \\
& x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + \\
& 2x_2x_4y_1y_2y_3y_5 + 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - \\
& y_1y_2^2y_3y_4y_5) - ib_{1,0,2,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 - \\
& x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,3,0,0,0,0,0,-2,0}^r(x_1x_2^3x_5^2 - x_1x_2^3y_5^2 + 6x_1x_2^2x_5y_2y_5 - 3x_1x_2x_5^2y_2^2 + \\
& 3x_1x_2y_2^2y_5^2 - 2x_1x_5y_2^3y_5 + 2x_2^3x_5y_1y_5 - 3x_2^2x_5^2y_1y_2 + 3x_2^2y_1y_2y_5^2 - \\
& 6x_2x_5y_1y_2^2y_5 + x_5^2y_1y_2^3 - y_1y_2^3y_5^2) + ib_{1,0,3,0,0,0,0,0,-2,0}^r(2x_1x_2^3x_5y_5 - 3x_1x_2^2x_5^2y_2 + \\
& 3x_1x_2^2y_2y_5^2 - 6x_1x_2x_5y_2^2y_5 + x_1x_5^2y_2^3 - x_1y_2^3y_5^2 - x_2^3x_5^2y_1 + x_2^3y_1y_5^2 - \\
& 6x_2^2x_5y_1y_2y_5 + 3x_2x_5^2y_1y_2^2 - 3x_2y_1y_2^2y_5^2 + 2x_5y_1y_2^3y_5) + \\
& b_{1,0,3,0,0,0,2,0,0,0}^r(x_1x_2^3x_4^2 - x_1x_2^3y_4^2 - 6x_1x_2^2x_4y_2y_4 - 3x_1x_2x_4^2y_2^2 + 3x_1x_2y_2^2y_4^2 + \\
& 2x_1x_4y_2^3y_4 - 2x_2^3x_4y_1y_4 - 3x_2^2x_4^2y_1y_2 + 3x_2^2y_1y_2y_4^2 + 6x_2x_4y_1y_2^2y_4 + \\
& x_4^2y_1y_2^3 - y_1y_2^3y_4^2) - ib_{1,0,3,0,0,0,2,0,0,0}^r(2x_1x_2^3x_4y_4 + 3x_1x_2^2x_4^2y_2 - 3x_1x_2^2y_2y_4^2 - \\
& 6x_1x_2x_4y_2^2y_4 - x_1x_4^2y_2^3 + x_1y_2^3y_4^2 + x_2^3x_4^2y_1 - x_2^3y_1y_4^2 - 6x_2^2x_4y_1y_2y_4 - \\
& 3x_2x_4^2y_1y_2^2 + 3x_2y_1y_2^2y_4^2 + 2x_4y_1y_2^3y_4) + b_{1,0,3,0,2,0,0,0,0,0}^r(x_1x_2^3x_3^2 - x_1x_2^3y_3^2 - \\
& 6x_1x_2^2x_3y_2y_3 - 3x_1x_2x_3^2y_2^2 + 3x_1x_2y_2^2y_3^2 + 2x_1x_3y_2^3y_3 - 2x_2^3x_3y_1y_3 - \\
& 3x_2^2x_3^2y_1y_2 + 3x_2^2y_1y_2y_3^2 + 6x_2x_3y_1y_2^2y_3 + x_3^2y_1y_2^3 - y_1y_2^3y_3^2) - \\
& ib_{1,0,3,0,2,0,0,0,0,0}^r(2x_1x_2^2x_3y_3 + 3x_1x_2^2x_3^2y_2 - 3x_1x_2^2y_2y_3^2 - 6x_1x_2x_3y_2^2y_3 - \\
& x_1x_3^2y_2^3 + x_1y_2^3y_3^2 + x_2^3x_3^2y_1 - x_2^3y_1y_3^2 - 6x_2^2x_3y_1y_2y_3 - 3x_2x_3^2y_1y_2^2 + \\
& 3x_2y_1y_2^2y_3^2 + 2x_3y_1y_2^3y_3) + b_{1,1,-1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - \\
& 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_2^3y_1y_2 - y_1y_2y_3^2) + ib_{1,1,-1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_3y_3 + \\
& x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{1,1,-1,0,0,0,-2,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) + \\
& ib_{1,1,-1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) + b_{1,1,-1,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) - ib_{1,1,-1,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + \\
& x_2x_5^2y_1 - x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,1,0,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& ib_{1,1,0,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,1,0,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{1,1,0,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,1,0,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& ib_{1,1,0,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,1,1,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) - \\
& ib_{1,1,1,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1y_2 + x_2y_1) + b_{1,1,1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + \\
& y_4^2)(x_1x_2 - y_1y_2) - ib_{1,1,1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1y_2 + x_2y_1) + b_{1,1,1,0,0,0,1,0,0,0}^r(x_1^2 +
\end{aligned}$$

$$\begin{aligned}
& y_1^2)(x_3^2 + y_3^2)(x_1x_2 - y_1y_2) - ib_{1,1,1,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_1y_2 + x_2y_1) + \\
& b_{1,1,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_1x_2 - y_1y_2) - ib_{1,1,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + \\
& y_2^2)(x_1y_2 + x_2y_1) + b_{1,2,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_1x_2 - y_1y_2) - ib_{1,2,1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)^2(x_1y_2 + x_2y_1) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 - \\
& x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 + \\
& 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + \\
& 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + ib_{2,0,-1,0,-1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{2,0,-1,0,-1,0,1,0,1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + \\
& 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) - ib_{2,0,-1,0,-1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{2,0,-1,0,1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) - ib_{2,0,-1,0,1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + 2ib_{2,0,-2,0,-2,0,0,0,0,0}^r(x_1x_2x_3 - x_1y_2y_3 + x_2y_1y_3 + \\
& x_3y_1y_2)(x_1x_2y_3 + x_1x_3y_2 - x_2x_3y_1 + y_1y_2y_3) + b_{2,0,-2,0,-2,0,0,0,0,0}^r(x_1x_2x_3 - x_1x_2y_3 - x_1x_3y_2 - \\
& x_1y_2y_3 + x_2x_3y_1 + x_2y_1y_3 + x_3y_1y_2 - y_1y_2y_3)(x_1x_2x_3 + x_1x_2y_3 + x_1x_3y_2 - x_1y_2y_3 - \\
& x_2x_3y_1 + x_2y_1y_3 + x_3y_1y_2 + y_1y_2y_3) + 2ib_{2,0,-2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 - x_1y_2y_4 + x_2y_1y_4 + \\
& x_4y_1y_2)(x_1x_2y_4 + x_1x_4y_2 - x_2x_4y_1 + y_1y_2y_4) + b_{2,0,-2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 - x_1x_2y_4 - x_1x_4y_2 - \\
& x_1y_2y_4 + x_2x_4y_1 + x_2y_1y_4 + x_4y_1y_2 - y_1y_2y_4)(x_1x_2x_4 + x_1x_2y_4 + x_1x_4y_2 - x_1y_2y_4 - \\
& x_2x_4y_1 + x_2y_1y_4 + x_4y_1y_2 + y_1y_2y_4) - 2ib_{2,0,-2,0,0,0,0,0,2,0}^r(x_1x_2x_5 + x_1y_2y_5 - x_2y_1y_5 + \\
& x_5y_1y_2)(x_1x_2y_5 - x_1x_5y_2 + x_2x_5y_1 + y_1y_2y_5) + b_{2,0,-2,0,0,0,0,0,2,0}^r(x_1x_2x_5 - x_1x_2y_5 + x_1x_5y_2 + \\
& x_1y_2y_5 - x_2x_5y_1 - x_2y_1y_5 + x_5y_1y_2 - y_1y_2y_5)(x_1x_2x_5 + x_1x_2y_5 - x_1x_5y_2 + x_1y_2y_5 + \\
& x_2x_5y_1 - x_2y_1y_5 + x_5y_1y_2 + y_1y_2y_5) + 2ib_{2,0,0,0,-2,0,0,0,-2,0}^r(x_1x_3x_5 - x_1y_3y_5 + x_3y_1y_5 +
\end{aligned}$$

$$\begin{aligned}
& x_5y_1y_3)(x_1x_3y_5 + x_1x_5y_3 - x_3x_5y_1 + y_1y_3y_5) + b_{2,0,0,0,-2,0,0,0,-2,0}^r(x_1x_3x_5 - x_1x_3y_5 - x_1x_5y_3 - \\
& x_1y_3y_5 + x_3x_5y_1 + x_3y_1y_5 + x_5y_1y_3 - y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 + x_1x_5y_3 - x_1y_3y_5 - \\
& x_3x_5y_1 + x_3y_1y_5 + x_5y_1y_3 + y_1y_3y_5) - 2ib_{2,0,0,0,-2,0,2,0,0,0}^r(x_1x_3x_4 + x_1y_3y_4 - x_3y_1y_4 + \\
& x_4y_1y_3)(x_1x_3y_4 - x_1x_4y_3 + x_3x_4y_1 + y_1y_3y_4) + b_{2,0,0,0,-2,0,2,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 + x_1x_4y_3 + \\
& x_1y_3y_4 - x_3x_4y_1 - x_3y_1y_4 + x_4y_1y_3 - y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 - x_1x_4y_3 + x_1y_3y_4 + \\
& x_3x_4y_1 - x_3y_1y_4 + x_4y_1y_3 + y_1y_3y_4) + 2ib_{2,0,0,0,0,0,-2,0,-2,0}^r(x_1x_4x_5 - x_1y_4y_5 + x_4y_1y_5 + \\
& x_5y_1y_4)(x_1x_4y_5 + x_1x_5y_4 - x_4x_5y_1 + y_1y_4y_5) + b_{2,0,0,0,0,0,-2,0,-2,0}^r(x_1x_4x_5 - x_1x_4y_5 - x_1x_5y_4 - \\
& x_1y_4y_5 + x_4x_5y_1 + x_4y_1y_5 + x_5y_1y_4 - y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 + x_1x_5y_4 - x_1y_4y_5 - \\
& x_4x_5y_1 + x_4y_1y_5 + x_5y_1y_4 + y_1y_4y_5) - 2ib_{2,0,0,0,0,0,0,0,0,2}^r x_1y_1(x_5^2 + y_5^2)^2 + b_{2,0,0,0,0,0,0,0,0,2}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_5^2 + y_5^2)^2 - 2ib_{2,0,0,0,0,0,0,1,0,1}^r x_1y_1(x_4^2 + y_4^2)(x_5^2 + y_5^2) + b_{2,0,0,0,0,0,0,1,0,1}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_4^2 + y_4^2)(x_5^2 + y_5^2) - 2ib_{2,0,0,0,0,0,0,2,0,0}^r x_1y_1(x_4^2 + y_4^2)^2 + b_{2,0,0,0,0,0,0,2,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_4^2 + y_4^2)^2 - 2ib_{2,0,0,0,0,0,0,2,0,2,0}^r(x_1x_4x_5 - x_1y_4y_5 - x_4y_1y_5 - x_5y_1y_4)(x_1x_4y_5 + \\
& x_1x_5y_4 + x_4x_5y_1 - y_1y_4y_5) + b_{2,0,0,0,0,0,0,2,0,2,0}^r(x_1x_4x_5 - x_1x_4y_5 - x_1x_5y_4 - x_1y_4y_5 - x_4x_5y_1 - \\
& x_4y_1y_5 - x_5y_1y_4 + y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 + x_1x_5y_4 - x_1y_4y_5 + x_4x_5y_1 - x_4y_1y_5 - \\
& x_5y_1y_4 - y_1y_4y_5) - 2ib_{2,0,0,0,0,0,1,0,0,0,1}^r x_1y_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{2,0,0,0,0,0,1,0,0,0,1}^r(x_1 - y_1)(x_1 + \\
& y_1)(x_3^2 + y_3^2)(x_5^2 + y_5^2) - 2ib_{2,0,0,0,0,0,1,0,1,0,0}^r x_1y_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{2,0,0,0,0,0,1,0,1,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_3^2 + y_3^2)(x_4^2 + y_4^2) - 2ib_{2,0,0,0,0,0,2,0,0,0,0}^r x_1y_1(x_3^2 + y_3^2)^2 + b_{2,0,0,0,0,0,2,0,0,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_3^2 + y_3^2)^2 + 2ib_{2,0,0,0,0,0,2,0,0,0,0}^r(x_1x_3x_4 + x_1y_3y_4 + x_3y_1y_4 - x_4y_1y_3)(x_1x_3y_4 - \\
& x_1x_4y_3 - x_3x_4y_1 - y_1y_3y_4) + b_{2,0,0,0,0,0,2,0,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 + x_1x_4y_3 + x_1y_3y_4 + x_3x_4y_1 + \\
& x_3y_1y_4 - x_4y_1y_3 + y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 - x_1x_4y_3 + x_1y_3y_4 - x_3x_4y_1 + x_3y_1y_4 - \\
& x_4y_1y_3 - y_1y_3y_4) - 2ib_{2,0,0,0,0,0,2,0,0,0,2,0}^r(x_1x_3x_5 - x_1y_3y_5 - x_3y_1y_5 - x_5y_1y_3)(x_1x_3y_5 + x_1x_5y_3 + \\
& x_3x_5y_1 - y_1y_3y_5) + b_{2,0,0,0,0,0,2,0,0,0,2,0}^r(x_1x_3x_5 - x_1x_3y_5 - x_1x_5y_3 - x_1y_3y_5 - x_3x_5y_1 - x_3y_1y_5 - \\
& x_5y_1y_3 + y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 + x_1x_5y_3 - x_1y_3y_5 + x_3x_5y_1 - x_3y_1y_5 - x_5y_1y_3 - \\
& y_1y_3y_5) - 2ib_{2,0,0,1,0,0,0,0,0,0,1}^r x_1y_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{2,0,0,1,0,0,0,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + \\
& y_2^2)(x_5^2 + y_5^2) - 2ib_{2,0,0,1,0,0,0,0,1,0,0}^r x_1y_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{2,0,0,1,0,0,0,0,1,0,0}^r(x_1 - y_1)(x_1 + \\
& y_1)(x_2^2 + y_2^2)(x_4^2 + y_4^2) - 2ib_{2,0,0,1,0,1,0,0,0,0,0}^r x_1y_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{2,0,0,1,0,1,0,0,0,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_2^2 + y_2^2)(x_3^2 + y_3^2) - 2ib_{2,0,0,2,0,0,0,0,0,0,0}^r x_1y_1(x_2^2 + y_2^2)^2 + b_{2,0,0,2,0,0,0,0,0,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_2^2 + y_2^2)^2 + b_{2,0,1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 + \\
& x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 + \\
& 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + ib_{2,0,1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{2,0,1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + ib_{2,0,1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 -
\end{aligned}$$

$$\begin{aligned}
& x_1^2 x_2 x_4 x_5 y_3 + x_1^2 x_2 y_3 y_4 y_5 - x_1^2 x_3 x_4 x_5 y_2 + x_1^2 x_3 y_2 y_4 y_5 - x_1^2 x_4 y_2 y_3 y_5 - \\
& x_1^2 x_5 y_2 y_3 y_4 - 2x_1 x_2 x_3 x_4 x_5 y_1 + 2x_1 x_2 x_3 y_1 y_4 y_5 - 2x_1 x_2 x_4 y_1 y_3 y_5 - 2x_1 x_2 x_5 y_1 y_3 y_4 - \\
& 2x_1 x_3 x_4 y_1 y_2 y_5 - 2x_1 x_3 x_5 y_1 y_2 y_4 + 2x_1 x_4 x_5 y_1 y_2 y_3 - 2x_1 y_1 y_2 y_3 y_4 y_5 - x_2 x_3 x_4 y_1^2 y_5 - \\
& x_2 x_3 x_5 y_1^2 y_4 + x_2 x_4 x_5 y_1^2 y_3 - x_2 y_1^2 y_3 y_4 y_5 + x_3 x_4 x_5 y_1^2 y_2 - x_3 y_1^2 y_2 y_4 y_5 + \\
& x_4 y_1^2 y_2 y_3 y_5 + x_5 y_1^2 y_2 y_3 y_4) + b_{2,0,1,0,1,0,1,0,1,0}^r (x_1^2 x_2 x_3 x_4 x_5 - x_1^2 x_2 x_3 y_4 y_5 - \\
& x_1^2 x_2 x_4 y_3 y_5 - x_1^2 x_2 x_5 y_3 y_4 - x_1^2 x_3 x_4 y_2 y_5 - x_1^2 x_3 x_5 y_2 y_4 - x_1^2 x_4 x_5 y_2 y_3 + \\
& x_1^2 y_2 y_3 y_4 y_5 - 2x_1 x_2 x_3 x_4 y_1 y_5 - 2x_1 x_2 x_3 x_5 y_1 y_4 - 2x_1 x_2 x_4 x_5 y_1 y_3 + 2x_1 x_2 y_1 y_3 y_4 y_5 - \\
& 2x_1 x_3 x_4 x_5 y_1 y_2 + 2x_1 x_3 y_1 y_2 y_4 y_5 + 2x_1 x_4 y_1 y_2 y_3 y_5 + 2x_1 x_5 y_1 y_2 y_3 y_4 - x_2 x_3 x_4 x_5 y_1^2 + \\
& x_2 x_3 y_1^2 y_4 y_5 + x_2 x_4 y_1^2 y_3 y_5 + x_2 x_5 y_1^2 y_3 y_4 + x_3 x_4 y_1^2 y_2 y_5 + x_3 x_5 y_1^2 y_2 y_4 + \\
& x_4 x_5 y_1^2 y_2 y_3 - y_1^2 y_2 y_3 y_4 y_5) - i b_{2,0,1,0,1,0,1,0,1,0}^r (x_1^2 x_2 x_3 x_4 y_5 + x_1^2 x_2 x_3 x_5 y_4 + \\
& x_1^2 x_2 x_4 x_5 y_3 - x_1^2 x_2 y_3 y_4 y_5 + x_1^2 x_3 x_4 x_5 y_2 - x_1^2 x_3 y_2 y_4 y_5 - x_1^2 x_4 y_2 y_3 y_5 - \\
& x_1^2 x_5 y_2 y_3 y_4 + 2x_1 x_2 x_3 x_4 x_5 y_1 - 2x_1 x_2 x_3 y_1 y_4 y_5 - 2x_1 x_2 x_4 y_1 y_3 y_5 - 2x_1 x_2 x_5 y_1 y_3 y_4 - \\
& 2x_1 x_3 x_4 y_1 y_2 y_5 - 2x_1 x_3 x_5 y_1 y_2 y_4 - 2x_1 x_4 x_5 y_1 y_2 y_3 + 2x_1 y_1 y_2 y_3 y_4 y_5 - x_2 x_3 x_4 y_1^2 y_5 - \\
& x_2 x_3 x_5 y_1^2 y_4 - x_2 x_4 x_5 y_1^2 y_3 + x_2 y_1^2 y_3 y_4 y_5 - x_3 x_4 x_5 y_1^2 y_2 + x_3 y_1^2 y_2 y_4 y_5 + \\
& x_4 y_1^2 y_2 y_3 y_5 + x_5 y_1^2 y_2 y_3 y_4) + 2i b_{2,0,2,0,0,0,0,0,-2,0}^r (x_1 x_2 x_5 + x_1 y_2 y_5 + x_2 y_1 y_5 - \\
& x_5 y_1 y_2) (x_1 x_2 y_5 - x_1 x_5 y_2 - x_2 x_5 y_1 - y_1 y_2 y_5) + b_{2,0,2,0,0,0,0,0,-2,0}^r (x_1 x_2 x_5 - x_1 x_2 y_5 + x_1 x_5 y_2 + \\
& x_1 y_2 y_5 + x_2 x_5 y_1 + x_2 y_1 y_5 - x_5 y_1 y_2 + y_1 y_2 y_5) (x_1 x_2 x_5 + x_1 x_2 y_5 - x_1 x_5 y_2 + x_1 y_2 y_5 - \\
& x_2 x_5 y_1 + x_2 y_1 y_5 - x_5 y_1 y_2 - y_1 y_2 y_5) - 2i b_{2,0,2,0,0,0,2,0,0,0}^r (x_1 x_2 x_4 - x_1 y_2 y_4 - x_2 y_1 y_4 - \\
& x_4 y_1 y_2) (x_1 x_2 y_4 + x_1 x_4 y_2 + x_2 x_4 y_1 - y_1 y_2 y_4) + b_{2,0,2,0,0,0,2,0,0,0}^r (x_1 x_2 x_4 - x_1 x_2 y_4 - x_1 x_4 y_2 - \\
& x_1 y_2 y_4 - x_2 x_4 y_1 - x_2 y_1 y_4 - x_4 y_1 y_2 + y_1 y_2 y_4) (x_1 x_2 x_4 + x_1 x_2 y_4 + x_1 x_4 y_2 - x_1 y_2 y_4 + \\
& x_2 x_4 y_1 - x_2 y_1 y_4 - x_4 y_1 y_2 - y_1 y_2 y_4) - 2i b_{2,0,2,0,2,0,0,0,0,0}^r (x_1 x_2 x_3 - x_1 y_2 y_3 - x_2 y_1 y_3 - \\
& x_3 y_1 y_2) (x_1 x_2 y_3 + x_1 x_3 y_2 + x_2 x_3 y_1 - y_1 y_2 y_3) + b_{2,0,2,0,2,0,0,0,0,0}^r (x_1 x_2 x_3 - x_1 x_2 y_3 - x_1 x_3 y_2 - \\
& x_1 y_2 y_3 - x_2 x_3 y_1 - x_2 y_1 y_3 - x_3 y_1 y_2 + y_1 y_2 y_3) (x_1 x_2 x_3 + x_1 x_2 y_3 + x_1 x_3 y_2 - x_1 y_2 y_3 + \\
& x_2 x_3 y_1 - x_2 y_1 y_3 - x_3 y_1 y_2 - y_1 y_2 y_3) - 2i b_{2,1,0,0,0,0,0,0,0,1}^r x_1 y_1 (x_1^2 + y_1^2) (x_5^2 + y_5^2) + \\
& b_{2,1,0,0,0,0,0,0,0,1}^r (x_1 - y_1) (x_1 + y_1) (x_1^2 + y_1^2) (x_5^2 + y_5^2) - 2i b_{2,1,0,0,0,0,0,1,0,0}^r x_1 y_1 (x_1^2 + y_1^2) (x_4^2 + \\
& y_4^2) + b_{2,1,0,0,0,0,0,1,0,0}^r (x_1 - y_1) (x_1 + y_1) (x_1^2 + y_1^2) (x_4^2 + y_4^2) - 2i b_{2,1,0,0,0,0,1,0,0,0}^r x_1 y_1 (x_1^2 + \\
& y_1^2) (x_3^2 + y_3^2) + b_{2,1,0,0,0,0,1,0,0,0}^r (x_1 - y_1) (x_1 + y_1) (x_1^2 + y_1^2) (x_3^2 + y_3^2) - \\
& 2i b_{2,1,0,1,0,0,0,0,0,0}^r x_1 y_1 (x_1^2 + y_1^2) (x_2^2 + y_2^2) + b_{2,1,0,1,0,0,0,0,0,0}^r (x_1 - y_1) (x_1 + y_1) (x_1^2 + y_1^2) (x_2^2 + \\
& y_2^2) - 2i b_{2,2,0,0,0,0,0,0,0,0}^r x_1 y_1 (x_1^2 + y_1^2)^2 + b_{2,2,0,0,0,0,0,0,0,0}^r (x_1 - y_1) (x_1 + y_1) (x_1^2 + y_1^2)^2 + \\
& b_{3,0,-1,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2) (x_1^3 x_2 + 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 - y_1^3 y_2) + i b_{3,0,-1,0,0,0,0,0,0,1}^r (x_5^2 + \\
& y_5^2) (x_1^3 y_2 - 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 + x_2 y_1^3) + b_{3,0,-1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2) (x_1^3 x_2 + 3x_1^2 y_1 y_2 - \\
& 3x_1 x_2 y_1^2 - y_1^3 y_2) + i b_{3,0,-1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2) (x_1^3 y_2 - 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 + x_2 y_1^3) + \\
& b_{3,0,-1,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2) (x_1^3 x_2 + 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 - y_1^3 y_2) + i b_{3,0,-1,0,0,1,0,0,0,0}^r (x_3^2 + \\
& y_3^2) (x_1^3 y_2 - 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 + x_2 y_1^3) + b_{3,0,-1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2) (x_1^3 x_2 + 3x_1^2 y_1 y_2 - \\
& 3x_1 x_2 y_1^2 - y_1^3 y_2) + i b_{3,0,-1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2) (x_1^3 y_2 - 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 + x_2 y_1^3) + \\
& b_{3,0,0,0,-1,0,1,0,-1,0}^r (x_1^3 x_3 x_4 x_5 + x_1^3 x_3 y_4 y_5 - x_1^3 x_4 y_3 y_5 + x_1^3 x_5 y_3 y_4 + 3x_1^2 x_3 x_4 y_1 y_5 - \\
& 3x_1^2 x_3 x_5 y_1 y_4 + 3x_1^2 x_4 x_5 y_1 y_3 + 3x_1^2 y_1 y_3 y_4 y_5 - 3x_1 x_3 x_4 x_5 y_1^2 - 3x_1 x_3 y_1^2 y_4 y_5 + \\
& 3x_1 x_4 y_1^2 y_3 y_5 - 3x_1 x_5 y_1^2 y_3 y_4 - x_3 x_4 y_1^3 y_5 + x_3 x_5 y_1^3 y_4 - x_4 x_5 y_1^3 y_3 - y_1^3 y_3 y_4 y_5) + \\
& i b_{3,0,0,0,-1,0,1,0,-1,0}^r (x_1^3 x_3 x_4 y_5 - x_1^3 x_3 x_5 y_4 + x_1^3 x_4 x_5 y_3 + x_1^3 y_3 y_4 y_5 - 3x_1^2 x_3 x_4 x_5 y_1 - \\
& 3x_1^2 x_3 y_1 y_4 y_5 + 3x_1^2 x_4 y_1 y_3 y_5 - 3x_1^2 x_5 y_1 y_3 y_4 - 3x_1 x_3 x_4 y_1^2 y_5 + 3x_1 x_3 x_5 y_1^2 y_4 - \\
& 3x_1 x_4 x_5 y_1^2 y_3 - 3x_1 y_1^2 y_3 y_4 y_5 + x_3 x_4 x_5 y_1^3 + x_3 y_1^3 y_4 y_5 - x_4 y_1^3 y_3 y_5 + x_5 y_1^3 y_3 y_4) + \\
& b_{3,0,0,0,1,0,-1,0,-1,0}^r (x_1^3 x_3 x_4 x_5 - x_1^3 x_3 y_4 y_5 + x_1^3 x_4 y_3 y_5 + x_1^3 x_5 y_3 y_4 + 3x_1^2 x_3 x_4 y_1 y_5 + \\
& 3x_1^2 x_3 x_5 y_1 y_4 - 3x_1^2 x_4 x_5 y_1 y_3 + 3x_1^2 y_1 y_3 y_4 y_5 - 3x_1 x_3 x_4 x_5 y_1^2 + 3x_1 x_3 y_1^2 y_4 y_5 -
\end{aligned}$$



$$\begin{aligned}
& 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 - x_3x_4y_1^3y_5 - x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) + \\
& ib_{3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 - x_1^3x_4x_5y_3 + x_1^3y_3y_4y_5 - 3x_1^2x_3x_4x_5y_1 + \\
& 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 + \\
& 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 - x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + \\
& b_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 - x_1^3x_5y_3y_4 - 3x_1^2x_3x_4y_1y_5 - \\
& 3x_1^2x_3x_5y_1y_4 - 3x_1^2x_4x_5y_1y_3 + 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 + \\
& 3x_1x_4y_1^2y_3y_5 + 3x_1x_5y_1^2y_3y_4 + x_3x_4y_1^3y_5 + x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) - \\
& ib_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 + x_1^3x_4x_5y_3 - x_1^3y_3y_4y_5 + 3x_1^2x_3x_4x_5y_1 - \\
& 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 - \\
& 3x_1x_4x_5y_1^2y_3 + 3x_1y_1^2y_3y_4y_5 - x_3x_4x_5y_1^3 + x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + \\
& b_{3,0,1,0,0,0,0,0,-2,0}^r(x_1^3x_2y_5^2 - x_1^3x_2y_5^2 + 2x_1^3x_5y_2y_5 + 6x_1^2x_2x_5y_1y_5 - 3x_1^2x_5^2y_1y_2 + \\
& 3x_1^2y_1y_2y_5^2 - 3x_1x_2x_5^2y_1^2 + 3x_1x_2y_1^2y_5^2 - 6x_1x_5y_1^2y_2y_5 - 2x_2x_5y_1^3y_5 + \\
& x_5^2y_1^3y_2 - y_1^3y_2y_5^2) + ib_{3,0,1,0,0,0,0,0,-2,0}^r(2x_1^3x_2x_5y_5 - x_1^3x_5^2y_2 + x_1^3y_2y_5^2 - \\
& 3x_1^2x_2x_5^2y_1 + 3x_1^2x_2y_1y_5^2 - 6x_1^2x_5y_1y_2y_5 - 6x_1x_2x_5y_1^2y_5 + 3x_1x_5^2y_1^2y_2 - \\
& 3x_1y_1^2y_2y_5^2 + x_2x_5^2y_1^3 - x_2y_1^3y_5^2 + 2x_5y_1^3y_2y_5) + b_{3,0,1,0,0,0,2,0,0,0}^r(x_1^3x_2x_4^2 - \\
& x_1^3x_2y_4^2 - 2x_1^3x_4y_2y_4 - 6x_1^2x_2x_4y_1y_4 - 3x_1^2x_4^2y_1y_2 + 3x_1^2y_1y_2y_4^2 - \\
& 3x_1x_2x_4^2y_1^2 + 3x_1x_2y_1^2y_4^2 + 6x_1x_4y_1^2y_2y_4 + 2x_2x_4y_1^3y_4 + x_4^2y_1^3y_2 - y_1^3y_2y_4^2) - \\
& ib_{3,0,1,0,0,0,2,0,0,0}^r(2x_1^3x_2x_4y_4 + x_1^3x_4^2y_2 - x_1^3y_2y_4^2 + 3x_1^2x_2x_4^2y_1 - 3x_1^2x_2y_1y_4^2 - \\
& 6x_1^2x_4y_1y_2y_4 - 6x_1x_2x_4y_1^2y_4 - 3x_1x_4^2y_1^2y_2 + 3x_1y_1^2y_2y_4^2 - x_2x_4^2y_1^3 + \\
& x_2y_1^3y_4^2 + 2x_4y_1^3y_2y_4) + b_{3,0,1,0,2,0,0,0,0,0}^r(x_1^3x_2x_3^2 - x_1^3x_2y_3^2 - 2x_1^3x_3y_2y_3 - \\
& 6x_1^2x_2x_3y_1y_3 - 3x_1^2x_3y_1y_2 + 3x_1^2y_1y_2y_3^2 - 3x_1x_2x_3^2y_1^2 + 3x_1x_2y_1^2y_3^2 + \\
& 6x_1x_3y_1^2y_2y_3 + 2x_2x_3y_1^3y_3 + x_3^2y_1^3y_2 - y_1^3y_2y_3^2) - ib_{3,0,1,0,2,0,0,0,0,0}^r(2x_1^3x_2x_3y_3 + \\
& x_1^3x_3^2y_2 - x_1^3y_2y_3^2 + 3x_1^2x_2x_3^2y_1 - 3x_1^2x_2y_1y_3^2 - 6x_1^2x_3y_1y_2y_3 - \\
& 6x_1x_2x_3y_1^2y_3 - 3x_1x_3^2y_1^2y_2 + 3x_1y_1^2y_2y_3^2 - x_2x_3^2y_1^3 + x_2y_1^3y_3^2 + 2x_3y_1^3y_2y_3) + \\
& b_{3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) + ib_{3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + 2ib_{4,0,-2,0,0,0,0,0,0,0}^r(x_1^2x_2 + 2x_1y_1y_2 - \\
& x_2y_1^2)(x_1^2y_2 - 2x_1x_2y_1 - y_1^2y_2) + b_{4,0,-2,0,0,0,0,0,0,0}^r(x_1^2x_2 - x_1^2y_2 + 2x_1x_2y_1 + 2x_1y_1y_2 - \\
& x_2y_1^2 + y_1^2y_2)(x_1^2x_2 + x_1^2y_2 - 2x_1x_2y_1 + 2x_1y_1y_2 - x_2y_1^2 - y_1^2y_2) + \\
& 2ib_{4,0,0,0,0,0,0,0,-2,0}^r(x_1^2x_5 + 2x_1y_1y_5 - x_5y_1^2)(x_1^2y_5 - 2x_1x_5y_1 - y_1^2y_5) + b_{4,0,0,0,0,0,0,0,-2,0}^r(x_1^2x_5 - \\
& x_1^2y_5 + 2x_1x_5y_1 + 2x_1y_1y_5 - x_5y_1^2 + y_1^2y_5)(x_1^2x_5 + x_1^2y_5 - 2x_1x_5y_1 + 2x_1y_1y_5 - x_5y_1^2 - \\
& y_1^2y_5) - 2ib_{4,0,0,0,0,0,2,0,0,0}^r(x_1^2x_4 - 2x_1y_1y_4 - x_4y_1^2)(x_1^2y_4 + 2x_1x_4y_1 - y_1^2y_4) + \\
& b_{4,0,0,0,0,0,2,0,0,0}^r(x_1^2x_4 - x_1^2y_4 - 2x_1x_4y_1 - 2x_1y_1y_4 - x_4y_1^2 + y_1^2y_4)(x_1^2x_4 + x_1^2y_4 + \\
& 2x_1x_4y_1 - 2x_1y_1y_4 - x_4y_1^2 - y_1^2y_4) - 2ib_{4,0,0,0,2,0,0,0,0,0}^r(x_1^2x_3 - 2x_1y_1y_3 - x_3y_1^2)(x_1^2y_3 + \\
& 2x_1x_3y_1 - y_1^2y_3) + b_{4,0,0,0,2,0,0,0,0,0}^r(x_1^2x_3 - x_1^2y_3 - 2x_1x_3y_1 - 2x_1y_1y_3 - x_3y_1^2 + \\
& y_1^2y_3)(x_1^2x_3 + x_1^2y_3 + 2x_1x_3y_1 - 2x_1y_1y_3 - x_3y_1^2 - y_1^2y_3)
\end{aligned}$$

## 4 Vibronic Hamiltonian operator in the real $E$ basis

$$\hat{H} = (|X\rangle \quad |Y\rangle) \begin{pmatrix} H_{XX} & H_{XY} \\ H_{YX} & H_{YY} \end{pmatrix} \begin{pmatrix} \langle X| \\ \langle Y| \end{pmatrix}$$

## 5 Matrix element expansions in the real $E$ basis

### 5.1 Order: 0

Number of fitting parameters:  $H_{XX}$ : 1 (all from  $H_{++}$ ),  $H_{XY}$ : 0,  $H_{YY}$ : 0.

**Polar e-coordinates:**

$$H_{XX}^{(0)} = a_{0,0,0,0,0,0,0,0,0}^r$$

$$H_{XY}^{(0)} = 0$$

$$H_{YX}^{(0)} = 0$$

$$H_{YY}^{(0)} = a_{0,0,0,0,0,0,0,0,0}^r$$

**Cartesian e-coordinates:**

$$H_{XX}^{(0)} = a_{0,0,0,0,0,0,0,0,0}^r$$

$$H_{XY}^{(0)} = 0$$

$$H_{YX}^{(0)} = 0$$

$$H_{YY}^{(0)} = a_{0,0,0,0,0,0,0,0,0}^r$$

### 5.2 Order: 1

Number of fitting parameters:  $H_{XX}$ : 2 (all from  $H_{+-}$ ),  $H_{XY}$ : 2 (all from  $H_{+-}$ ),  $H_{YY}$ : 2 (all from  $H_{+-}$ ).

**Polar e-coordinates:**

$$H_{XX}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r \rho_1 \cos(\phi_1) + b_{0,0,-1,0,0,0,0,0,0}^r \rho_2 \cos(\phi_2)$$

$$H_{XY}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r \rho_1 \sin(\phi_1) + b_{0,0,-1,0,0,0,0,0,0}^r \rho_2 \sin(\phi_2)$$

$$H_{YX}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r \rho_1 \sin(\phi_1) + b_{0,0,-1,0,0,0,0,0,0}^r \rho_2 \sin(\phi_2)$$

$$H_{YY}^{(1)} = -b_{-1,0,0,0,0,0,0,0,0}^r \rho_1 \cos(\phi_1) - b_{0,0,-1,0,0,0,0,0,0}^r \rho_2 \cos(\phi_2)$$

### Cartesian e-coordinates:

$$H_{XX}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r x_1 + b_{0,0,-1,0,0,0,0,0,0}^r x_2$$

$$H_{XY}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r y_1 + b_{0,0,-1,0,0,0,0,0,0}^r y_2$$

$$H_{YX}^{(1)} = b_{-1,0,0,0,0,0,0,0,0}^r y_1 + b_{0,0,-1,0,0,0,0,0,0}^r y_2$$

$$H_{YY}^{(1)} = -b_{-1,0,0,0,0,0,0,0,0}^r x_1 - b_{0,0,-1,0,0,0,0,0,0}^r x_2$$

### 5.3 Order: 2

Number of fitting parameters:  $H_{XX}$ : 12 (6 from  $H_{++}$ , 6 from  $H_{+-}$ ),  $H_{XY}$ : 6 (all from  $H_{+-}$ ),  $H_{YY}$ : 6 (all from  $H_{+-}$ ).

### Polar e-coordinates:

$$\begin{aligned} H_{XX}^{(2)} = & a_{0,0,0,0,0,0,0,0,1}^r \rho_5^2 + a_{0,0,0,0,0,0,0,1,0}^r \rho_4^2 + a_{0,0,0,0,0,1,0,0,0}^r \rho_3^2 + a_{0,0,0,1,0,0,0,0,0}^r \rho_2^2 + \\ & a_{0,1,0,0,0,0,0,0,0}^r \rho_1^2 + a_{1,0,-1,0,0,0,0,0,0}^r \rho_1 \rho_2 \cos(\phi_1 - \phi_2) + b_{0,0,0,0,-2,0,0,0,0}^r \rho_3^2 \cos(2\phi_3) + \\ & b_{0,0,0,0,0,-2,0,0,0}^r \rho_4^2 \cos(2\phi_4) + b_{0,0,0,0,0,0,2,0}^r \rho_5^2 \cos(2\phi_5) + b_{0,0,2,0,0,0,0,0,0}^r \rho_2^2 \cos(2\phi_2) + \\ & b_{1,0,1,0,0,0,0,0,0}^r \rho_1 \rho_2 \cos(\phi_1 + \phi_2) + b_{2,0,0,0,0,0,0,0,0}^r \rho_1^2 \cos(2\phi_1) \end{aligned}$$

$$\begin{aligned} H_{XY}^{(2)} = & b_{0,0,0,0,-2,0,0,0,0}^r \rho_3^2 \sin(2\phi_3) + b_{0,0,0,0,0,-2,0,0,0}^r \rho_4^2 \sin(2\phi_4) - b_{0,0,0,0,0,0,2,0}^r \rho_5^2 \sin(2\phi_5) - \\ & b_{0,0,2,0,0,0,0,0,0}^r \rho_2^2 \sin(2\phi_2) - b_{1,0,1,0,0,0,0,0,0}^r \rho_1 \rho_2 \sin(\phi_1 + \phi_2) - b_{2,0,0,0,0,0,0,0,0}^r \rho_1^2 \sin(2\phi_1) \end{aligned}$$

$$\begin{aligned} H_{YX}^{(2)} = & b_{0,0,0,0,-2,0,0,0,0}^r \rho_3^2 \sin(2\phi_3) + b_{0,0,0,0,0,-2,0,0,0}^r \rho_4^2 \sin(2\phi_4) - b_{0,0,0,0,0,0,2,0}^r \rho_5^2 \sin(2\phi_5) - \\ & b_{0,0,2,0,0,0,0,0,0}^r \rho_2^2 \sin(2\phi_2) - b_{1,0,1,0,0,0,0,0,0}^r \rho_1 \rho_2 \sin(\phi_1 + \phi_2) - b_{2,0,0,0,0,0,0,0,0}^r \rho_1^2 \sin(2\phi_1) \end{aligned}$$

$$\begin{aligned} H_{YY}^{(2)} = & a_{0,0,0,0,0,0,0,0,1}^r \rho_5^2 + a_{0,0,0,0,0,0,0,1,0}^r \rho_4^2 + a_{0,0,0,0,0,1,0,0,0}^r \rho_3^2 + a_{0,0,0,1,0,0,0,0,0}^r \rho_2^2 + \\ & a_{0,1,0,0,0,0,0,0,0}^r \rho_1^2 + a_{1,0,-1,0,0,0,0,0,0}^r \rho_1 \rho_2 \cos(\phi_1 - \phi_2) - b_{0,0,0,0,-2,0,0,0,0}^r \rho_3^2 \cos(2\phi_3) - \\ & b_{0,0,0,0,0,-2,0,0,0}^r \rho_4^2 \cos(2\phi_4) - b_{0,0,0,0,0,0,2,0}^r \rho_5^2 \cos(2\phi_5) - b_{0,0,2,0,0,0,0,0,0}^r \rho_2^2 \cos(2\phi_2) - \\ & b_{1,0,1,0,0,0,0,0,0}^r \rho_1 \rho_2 \cos(\phi_1 + \phi_2) - b_{2,0,0,0,0,0,0,0,0}^r \rho_1^2 \cos(2\phi_1) \end{aligned}$$

### Cartesian e-coordinates:

$$\begin{aligned} H_{XX}^{(2)} = & a_{0,0,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2) + a_{0,0,0,0,0,0,0,1,0}^r (x_4^2 + y_4^2) + a_{0,0,0,0,0,1,0,0,0}^r (x_3^2 + y_3^2) + \\ & a_{0,0,0,1,0,0,0,0,0}^r (x_2^2 + y_2^2) + a_{0,1,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2) + a_{1,0,-1,0,0,0,0,0,0}^r (x_1 x_2 + y_1 y_2) + \\ & b_{0,0,0,0,-2,0,0,0,0}^r (x_3 - y_3)(x_3 + y_3) + b_{0,0,0,0,0,-2,0,0,0}^r (x_4 - y_4)(x_4 + y_4) + b_{0,0,0,0,0,0,2,0}^r (x_5 - y_5)(x_5 + y_5) + \\ & b_{0,0,2,0,0,0,0,0,0}^r (x_2 - y_2)(x_2 + y_2) + b_{1,0,1,0,0,0,0,0,0}^r (x_1 x_2 - y_1 y_2) + b_{2,0,0,0,0,0,0,0,0}^r (x_1 - y_1)(x_1 + y_1) \end{aligned}$$

$$\begin{aligned} H_{XY}^{(2)} = & 2b_{0,0,0,0,-2,0,0,0,0}^r x_3 y_3 + 2b_{0,0,0,0,0,-2,0,0,0}^r x_4 y_4 - 2b_{0,0,0,0,0,0,2,0}^r x_5 y_5 - 2b_{0,0,2,0,0,0,0,0,0}^r x_2 y_2 - \\ & b_{1,0,1,0,0,0,0,0,0}^r (x_1 y_2 + x_2 y_1) - 2b_{2,0,0,0,0,0,0,0,0}^r x_1 y_1 \end{aligned}$$

$$H_{YX}^{(2)} = 2b_{0,0,0,0,-2,0,0,0,0}^r x_3 y_3 + 2b_{0,0,0,0,0,-2,0,0,0}^r x_4 y_4 - 2b_{0,0,0,0,0,0,0,2,0}^r x_5 y_5 - 2b_{0,0,2,0,0,0,0,0,0}^r x_2 y_2 - b_{1,0,1,0,0,0,0,0,0}^r (x_1 y_2 + x_2 y_1) - 2b_{2,0,0,0,0,0,0,0,0}^r x_1 y_1$$

$$H_{YY}^{(2)} = a_{0,0,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2) + a_{0,0,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2) + a_{0,0,0,0,0,1,0,0,0}^r (x_3^2 + y_3^2) + a_{0,0,0,1,0,0,0,0,0}^r (x_2^2 + y_2^2) + a_{0,1,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2) + a_{1,0,-1,0,0,0,0,0,0}^r (x_1 x_2 + y_1 y_2) - b_{0,0,0,0,-2,0,0,0,0}^r (x_3 - y_3)(x_3 + y_3) - b_{0,0,0,0,0,-2,0,0,0}^r (x_4 - y_4)(x_4 + y_4) - b_{0,0,0,0,0,0,0,2,0}^r (x_5 - y_5)(x_5 + y_5) - b_{0,0,2,0,0,0,0,0,0}^r (x_2 - y_2)(x_2 + y_2) - b_{1,0,1,0,0,0,0,0,0}^r (x_1 x_2 - y_1 y_2) - b_{2,0,0,0,0,0,0,0,0}^r (x_1 - y_1)(x_1 + y_1)$$

## 5.4 Order: 3

Number of fitting parameters:  $H_{XX}$ : 32 (11 from  $H_{++}$ , 21 from  $H_{+-}$ ),  $H_{XY}$ : 21 (all from  $H_{+-}$ ),  $H_{YY}$ : 21 (all from  $H_{+-}$ ).

### Polar e-coordinates:

$$H_{XX}^{(3)} = a_{0,0,0,0,1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,1,0,-2,0,0,0,0,0}^r \rho_2 \rho_3^2 \cos(\phi_2 - 2\phi_3) + a_{0,0,1,0,0,0,-2,0,0,0}^r \rho_2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,0,0,0,0,0,2,0}^r \rho_2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,3,0,0,0,0,0,0}^r \rho_2^3 \cos(3\phi_2) + a_{1,0,0,0,-2,0,0,0,0,0}^r \rho_1 \rho_3^2 \cos(\phi_1 - 2\phi_3) + a_{1,0,0,0,0,0,-2,0,0,0}^r \rho_1 \rho_4^2 \cos(\phi_1 - 2\phi_4) + a_{1,0,0,0,0,0,0,2,0}^r \rho_1 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,2,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \cos(\phi_1 + 2\phi_2) + a_{2,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \cos(2\phi_1 + \phi_2) + a_{3,0,0,0,0,0,0,0,0}^r \rho_1^3 \cos(3\phi_1) + b_{-1,0,0,0,0,0,0,0,1}^r \rho_1 \rho_5^2 \cos(\phi_1) + b_{-1,0,0,0,0,0,0,1,0}^r \rho_1 \rho_4^2 \cos(\phi_1) + b_{-1,0,0,0,1,0,0,0,0}^r \rho_1 \rho_3^2 \cos(\phi_1) + b_{-1,0,0,1,0,0,0,0,0}^r \rho_1 \rho_2^2 \cos(\phi_1) + b_{-1,1,0,0,0,0,0,0,0}^r \rho_1^3 \cos(\phi_1) + b_{-2,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \cos(2\phi_1 - \phi_2) + b_{0,0,-1,0,0,0,0,0,1}^r \rho_2 \rho_5^2 \cos(\phi_2) + b_{0,0,-1,0,0,1,0,0,0}^r \rho_2 \rho_3^2 \cos(\phi_2) + b_{0,0,-1,1,0,0,0,0,0}^r \rho_2^3 \cos(\phi_2) + b_{0,0,0,0,-1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \cos(\phi_3 - \phi_4 + \phi_5) + b_{0,0,0,0,1,0,-1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \cos(-\phi_3 + \phi_4 + \phi_5) + b_{0,0,0,0,1,0,1,0,1,0}^r \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 + \phi_5) + b_{0,0,1,0,0,0,0,-2,0}^r \rho_2 \rho_5^2 \cos(\phi_2 - 2\phi_5) + b_{0,0,1,0,0,0,2,0,0}^r \rho_2 \rho_4^2 \cos(\phi_2 + 2\phi_4) + b_{0,0,1,0,2,0,0,0,0}^r \rho_2 \rho_3^2 \cos(\phi_2 + 2\phi_3) + b_{0,1,-1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \cos(\phi_2) + b_{1,0,-2,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \cos(\phi_1 - 2\phi_2) + b_{1,0,0,0,0,0,0,-2,0}^r \rho_1 \rho_5^2 \cos(\phi_1 - 2\phi_5) + b_{1,0,0,0,0,0,2,0,0}^r \rho_1 \rho_4^2 \cos(\phi_1 + 2\phi_4) + b_{1,0,0,0,2,0,0,0,0}^r \rho_1 \rho_3^2 \cos(\phi_1 + 2\phi_3)$$

$$H_{XY}^{(3)} = b_{-1,0,0,0,0,0,0,0,1}^r \rho_1 \rho_5^2 \sin(\phi_1) + b_{-1,0,0,0,0,0,0,1,0}^r \rho_1 \rho_4^2 \sin(\phi_1) + b_{-1,0,0,0,0,1,0,0,0}^r \rho_1 \rho_3^2 \sin(\phi_1) + b_{-1,0,0,1,0,0,0,0,0}^r \rho_1 \rho_2^2 \sin(\phi_1) + b_{-1,1,0,0,0,0,0,0,0}^r \rho_1^3 \sin(\phi_1) + b_{-2,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \sin(2\phi_1 - \phi_2) + b_{0,0,-1,0,0,0,0,0,1}^r \rho_2 \rho_5^2 \sin(\phi_2) + b_{0,0,-1,0,0,0,0,1,0}^r \rho_2 \rho_4^2 \sin(\phi_2) + b_{0,0,-1,0,0,1,0,0,0}^r \rho_2 \rho_3^2 \sin(\phi_2) + b_{0,0,-1,1,0,0,0,0,0}^r \rho_2^3 \sin(\phi_2) + b_{0,0,0,0,-1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \sin(\phi_3 - \phi_4 + \phi_5) + b_{0,0,0,0,1,0,-1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \sin(-\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,0,1,0,1,0,1,0}^r \rho_3 \rho_4 \rho_5 \sin(\phi_3 + \phi_4 + \phi_5) - b_{0,0,1,0,0,0,0,0,-2,0}^r \rho_2 \rho_5^2 \sin(\phi_2 - 2\phi_5) - b_{0,0,1,0,0,0,2,0,0}^r \rho_2 \rho_4^2 \sin(\phi_2 + 2\phi_4) - b_{0,0,1,0,2,0,0,0,0}^r \rho_2 \rho_3^2 \sin(\phi_2 + 2\phi_3) - b_{0,1,-1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \sin(\phi_2) - b_{1,0,-2,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \sin(\phi_1 - 2\phi_2) - b_{1,0,0,0,0,0,0,-2,0}^r \rho_1 \rho_5^2 \sin(\phi_1 - 2\phi_5) - b_{1,0,0,0,0,0,2,0,0}^r \rho_1 \rho_4^2 \sin(\phi_1 + 2\phi_4) - b_{1,0,0,0,2,0,0,0,0}^r \rho_1 \rho_3^2 \sin(\phi_1 + 2\phi_3)$$

$$\begin{aligned}
H_{YX}^{(3)} = & b_{-1,0,0,0,0,0,0,0,1}^r \rho_1 \rho_5^2 \sin(\phi_1) + b_{-1,0,0,0,0,0,1,0,0}^r \rho_1 \rho_4^2 \sin(\phi_1) + \\
& b_{-1,0,0,0,0,1,0,0,0}^r \rho_1 \rho_3^2 \sin(\phi_1) + b_{-1,0,0,1,0,0,0,0,0}^r \rho_1 \rho_2^2 \sin(\phi_1) + \\
& b_{-1,1,0,0,0,0,0,0,0}^r \rho_1^3 \sin(\phi_1) + b_{-2,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \sin(2\phi_1 - \phi_2) + \\
& b_{0,0,-1,0,0,0,0,0,1}^r \rho_2 \rho_5^2 \sin(\phi_2) + b_{0,0,-1,0,0,0,0,1,0}^r \rho_2 \rho_4^2 \sin(\phi_2) + \\
& b_{0,0,-1,0,0,1,0,0,0}^r \rho_2 \rho_3^2 \sin(\phi_2) + b_{0,0,-1,1,0,0,0,0,0}^r \rho_2^3 \sin(\phi_2) + \\
& b_{0,0,0,0,-1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \sin(\phi_3 - \phi_4 + \phi_5) + b_{0,0,0,0,1,0,-1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \sin(-\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,0,0,1,0,1,0,1,0}^r \rho_3 \rho_4 \rho_5 \sin(\phi_3 + \phi_4 + \phi_5) - b_{0,0,1,0,0,0,0,0,-2,0}^r \rho_2 \rho_5^2 \sin(\phi_2 - 2\phi_5) - \\
& b_{0,0,1,0,0,0,2,0,0,0}^r \rho_2 \rho_4^2 \sin(\phi_2 + 2\phi_4) - b_{0,0,1,0,2,0,0,0,0}^r \rho_2 \rho_3^2 \sin(\phi_2 + 2\phi_3) + \\
& b_{0,1,-1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \sin(\phi_2) - b_{1,0,-2,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \sin(\phi_1 - 2\phi_2) - \\
& b_{1,0,0,0,0,0,0,0,-2,0}^r \rho_1 \rho_5^2 \sin(\phi_1 - 2\phi_5) - b_{1,0,0,0,0,0,2,0,0}^r \rho_1 \rho_4^2 \sin(\phi_1 + 2\phi_4) - \\
& b_{1,0,0,0,2,0,0,0,0}^r \rho_1 \rho_3^2 \sin(\phi_1 + 2\phi_3)
\end{aligned}$$

$$\begin{aligned}
H_{YY}^{(3)} = & a_{0,0,0,0,1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,1,0,-2,0,0,0,0,0}^r \rho_2 \rho_3^2 \cos(\phi_2 - 2\phi_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,0}^r \rho_2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,0,0,0,0,0,2,0}^r \rho_2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + \\
& a_{0,0,3,0,0,0,0,0,0}^r \rho_2^3 \cos(3\phi_2) + a_{1,0,0,0,-2,0,0,0,0,0}^r \rho_1 \rho_3^2 \cos(\phi_1 - 2\phi_3) + \\
& a_{1,0,0,0,0,0,-2,0,0,0}^r \rho_1 \rho_4^2 \cos(\phi_1 - 2\phi_4) + a_{1,0,0,0,0,0,0,2,0}^r \rho_1 \rho_5^2 \cos(\phi_1 + 2\phi_5) + \\
& a_{1,0,2,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \cos(\phi_1 + 2\phi_2) + a_{2,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \cos(2\phi_1 + \phi_2) + \\
& a_{3,0,0,0,0,0,0,0,0}^r \rho_1^3 \cos(3\phi_1) - b_{-1,0,0,0,0,0,0,0,1}^r \rho_1 \rho_5^2 \cos(\phi_1) - \\
& b_{-1,0,0,0,0,0,1,0,0}^r \rho_1 \rho_4^2 \cos(\phi_1) - b_{-1,0,0,0,0,1,0,0,0}^r \rho_1 \rho_3^2 \cos(\phi_1) - \\
& b_{-1,0,0,1,0,0,0,0,0}^r \rho_1 \rho_2^2 \cos(\phi_1) - b_{-1,1,0,0,0,0,0,0,0}^r \rho_1^3 \cos(\phi_1) - \\
& b_{-2,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \cos(2\phi_1 - \phi_2) - b_{0,0,-1,0,0,0,0,0,1}^r \rho_2 \rho_5^2 \cos(\phi_2) - \\
& b_{0,0,-1,0,0,0,0,1,0}^r \rho_2 \rho_4^2 \cos(\phi_2) - b_{0,0,-1,0,0,1,0,0,0}^r \rho_2 \rho_3^2 \cos(\phi_2) - \\
& b_{0,0,-1,1,0,0,0,0,0}^r \rho_2^3 \cos(\phi_2) - b_{0,0,0,0,-1,0,1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \cos(\phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,0,0,1,0,-1,0,-1,0}^r \rho_3 \rho_4 \rho_5 \cos(-\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,0,1,0,1,0,1,0}^r \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,0,0,0,0,-2,0}^r \rho_2 \rho_5^2 \cos(\phi_2 - 2\phi_5) - b_{0,0,1,0,0,0,2,0,0}^r \rho_2 \rho_4^2 \cos(\phi_2 + 2\phi_4) - \\
& b_{0,0,1,0,2,0,0,0,0}^r \rho_2 \rho_3^2 \cos(\phi_2 + 2\phi_3) - b_{0,1,-1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \cos(\phi_2) - \\
& b_{1,0,-2,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \cos(\phi_1 - 2\phi_2) - b_{1,0,0,0,0,0,0,0,-2,0}^r \rho_1 \rho_5^2 \cos(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,0,0,0,2,0,0}^r \rho_1 \rho_4^2 \cos(\phi_1 + 2\phi_4) - b_{1,0,0,0,2,0,0,0,0}^r \rho_1 \rho_3^2 \cos(\phi_1 + 2\phi_3)
\end{aligned}$$

### Cartesian e-coordinates:

$$\begin{aligned}
H_{XX}^{(3)} = & a_{0,0,0,0,1,0,1,0,-1,0}^r (x_3(x_4 x_5 + y_4 y_5) + y_3(x_4 y_5 - x_5 y_4)) + a_{0,0,1,0,-2,0,0,0,0,0}^r (x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,0}^r (x_2(x_4^2 - y_4^2) + 2x_4 y_2 y_4) + a_{0,0,1,0,0,0,0,0,2,0}^r (x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + \\
& a_{0,0,3,0,0,0,0,0,0}^r x_2(x_2^2 - 3y_2^2) + a_{1,0,0,0,-2,0,0,0,0,0}^r (x_1(x_3^2 - y_3^2) + 2x_3 y_1 y_3) + a_{1,0,0,0,0,0,-2,0,0,0}^r (x_1(x_4^2 - \\
& y_4^2) + 2x_4 y_1 y_4) + a_{1,0,0,0,0,0,0,0,2,0}^r (x_1(x_5^2 - y_5^2) - 2x_5 y_1 y_5) + a_{1,0,2,0,0,0,0,0,0}^r (x_1(x_2^2 - y_2^2) - \\
& 2x_2 y_1 y_2) + a_{2,0,1,0,0,0,0,0,0}^r (-2x_1 y_1 y_2 + x_2(x_1^2 - y_1^2)) + a_{3,0,0,0,0,0,0,0,0}^r x_1(x_1^2 - 3y_1^2) + \\
& b_{-1,0,0,0,0,0,0,0,1}^r x_1(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,0,1,0}^r x_1(x_4^2 + y_4^2) + b_{-1,0,0,0,0,1,0,0,0}^r x_1(x_3^2 + y_3^2) + \\
& b_{-1,0,0,1,0,0,0,0,0}^r x_1(x_2^2 + y_2^2) + b_{-1,1,0,0,0,0,0,0,0}^r x_1(x_1^2 + y_1^2) + b_{-2,0,1,0,0,0,0,0,0}^r (2x_1 y_1 y_2 + x_2(x_1^2 - \\
& y_1^2)) + b_{0,0,-1,0,0,0,0,0,1}^r x_2(x_5^2 + y_5^2) + b_{0,0,-1,0,0,0,0,1,0}^r x_2(x_4^2 + y_4^2) + b_{0,0,-1,0,0,1,0,0,0}^r x_2(x_3^2 + y_3^2) + \\
& b_{0,0,-1,1,0,0,0,0,0}^r x_2(x_2^2 + y_2^2) + b_{0,0,0,0,-1,0,1,0,-1,0}^r (x_3(x_4 x_5 + y_4 y_5) + y_3(-x_4 y_5 + x_5 y_4)) + \\
& b_{0,0,0,0,1,0,-1,0,-1,0}^r (x_3(x_4 x_5 - y_4 y_5) + y_3(x_4 y_5 + x_5 y_4)) + b_{0,0,0,0,1,0,1,0,1,0}^r (x_3(x_4 x_5 - y_4 y_5) + y_3(-x_4 y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_5 y_4)) + b_{0,0,1,0,0,0,0,-2,0}^r(x_2(x_5^2 - y_5^2) + 2x_5 y_2 y_5) + b_{0,0,1,0,0,0,2,0,0}^r(x_2(x_4^2 - y_4^2) - 2x_4 y_2 y_4) + \\
& b_{0,0,1,0,2,0,0,0,0}^r(x_2(x_3^2 - y_3^2) - 2x_3 y_2 y_3) + b_{0,1,-1,0,0,0,0,0,0}^r x_2(x_1^2 + y_1^2) + b_{1,0,-2,0,0,0,0,0,0}^r(x_1(x_2^2 - \\
& y_2^2) + 2x_2 y_1 y_2) + b_{1,0,0,0,0,0,0,-2,0}^r(x_1(x_5^2 - y_5^2) + 2x_5 y_1 y_5) + b_{1,0,0,0,0,2,0,0,0}^r(x_1(x_4^2 - y_4^2) - \\
& 2x_4 y_1 y_4) + b_{1,0,0,0,2,0,0,0,0}^r(x_1(x_3^2 - y_3^2) - 2x_3 y_1 y_3)
\end{aligned}$$

$$\begin{aligned}
H_{XY}^{(3)} = & b_{-1,0,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2) + b_{-1,0,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2) + \\
& b_{-1,0,0,1,0,0,0,0,0}^r(x_2^2 + y_2^2) + b_{-1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2) - b_{-2,0,1,0,0,0,0,0,0}^r(-2x_1 x_2 y_1 + y_2(x_1^2 - \\
& y_1^2)) + b_{0,0,-1,0,0,0,0,0,1}^r(x_5^2 + y_5^2) + b_{0,0,-1,0,0,0,1,0,0}^r(x_4^2 + y_4^2) + b_{0,0,-1,0,0,1,0,0,0}^r(x_3^2 + \\
& y_3^2) + b_{0,0,-1,1,0,0,0,0,0}^r(x_2^2 + y_2^2) + b_{0,0,0,0,-1,0,1,0,-1,0}^r(x_3(x_4 y_5 - x_5 y_4) + y_3(x_4 x_5 + y_4 y_5)) + \\
& b_{0,0,0,0,1,0,-1,0,-1,0}^r(x_3(x_4 y_5 + x_5 y_4) + y_3(-x_4 x_5 + y_4 y_5)) - b_{0,0,0,1,0,1,0,1,0}^r(x_3(x_4 y_5 + x_5 y_4) + y_3(x_4 x_5 - \\
& y_4 y_5)) + b_{0,0,1,0,0,0,0,0,-2,0}^r(2x_2 x_5 y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,0,1,0,0,0,2,0,0}^r(2x_2 x_4 y_4 + y_2(x_4^2 - y_4^2)) - \\
& b_{0,0,1,0,2,0,0,0,0}^r(2x_2 x_3 y_3 + y_2(x_3^2 - y_3^2)) + b_{0,1,-1,0,0,0,0,0,0}^r(x_1^2 + y_1^2) + \\
& b_{1,0,-2,0,0,0,0,0,0}^r(2x_1 x_2 y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,0,0,0,0,0,0,-2,0}^r(2x_1 x_5 y_5 + y_1(-x_5^2 + y_5^2)) - \\
& b_{1,0,0,0,0,0,2,0,0}^r(2x_1 x_4 y_4 + y_1(x_4^2 - y_4^2)) - b_{1,0,0,0,2,0,0,0,0}^r(2x_1 x_3 y_3 + y_1(x_3^2 - y_3^2))
\end{aligned}$$

$$\begin{aligned}
H_{YX}^{(3)} = & b_{-1,0,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2) + b_{-1,0,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2) + \\
& b_{-1,0,0,1,0,0,0,0,0}^r(x_2^2 + y_2^2) + b_{-1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2) - b_{-2,0,1,0,0,0,0,0,0}^r(-2x_1 x_2 y_1 + y_2(x_1^2 - \\
& y_1^2)) + b_{0,0,-1,0,0,0,0,0,1}^r(x_5^2 + y_5^2) + b_{0,0,-1,0,0,0,1,0,0}^r(x_4^2 + y_4^2) + b_{0,0,-1,0,0,1,0,0,0}^r(x_3^2 + \\
& y_3^2) + b_{0,0,-1,1,0,0,0,0,0}^r(x_2^2 + y_2^2) + b_{0,0,0,0,-1,0,1,0,-1,0}^r(x_3(x_4 y_5 - x_5 y_4) + y_3(x_4 x_5 + y_4 y_5)) + \\
& b_{0,0,0,0,1,0,-1,0,-1,0}^r(x_3(x_4 y_5 + x_5 y_4) + y_3(-x_4 x_5 + y_4 y_5)) - b_{0,0,0,1,0,1,0,1,0}^r(x_3(x_4 y_5 + x_5 y_4) + y_3(x_4 x_5 - \\
& y_4 y_5)) + b_{0,0,1,0,0,0,0,0,-2,0}^r(2x_2 x_5 y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,0,1,0,0,0,2,0,0}^r(2x_2 x_4 y_4 + y_2(x_4^2 - y_4^2)) - \\
& b_{0,0,1,0,2,0,0,0,0}^r(2x_2 x_3 y_3 + y_2(x_3^2 - y_3^2)) + b_{0,1,-1,0,0,0,0,0,0}^r(x_1^2 + y_1^2) + \\
& b_{1,0,-2,0,0,0,0,0,0}^r(2x_1 x_2 y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,0,0,0,0,0,0,-2,0}^r(2x_1 x_5 y_5 + y_1(-x_5^2 + y_5^2)) - \\
& b_{1,0,0,0,0,0,2,0,0}^r(2x_1 x_4 y_4 + y_1(x_4^2 - y_4^2)) - b_{1,0,0,0,2,0,0,0,0}^r(2x_1 x_3 y_3 + y_1(x_3^2 - y_3^2))
\end{aligned}$$

$$\begin{aligned}
H_{YY}^{(3)} = & a_{0,0,0,0,1,0,1,0,-1,0}^r(x_3(x_4 x_5 + y_4 y_5) + y_3(x_4 y_5 - x_5 y_4)) + a_{0,0,1,0,-2,0,0,0,0,0}^r(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,0}^r(x_2(x_4^2 - y_4^2) + 2x_4 y_2 y_4) + a_{0,0,1,0,0,0,0,0,2,0}^r(x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + \\
& a_{0,0,3,0,0,0,0,0,0,0}^r(x_2(x_2^2 - 3y_2^2)) + a_{1,0,0,0,-2,0,0,0,0,0}^r(x_1(x_3^2 - y_3^2) + 2x_3 y_1 y_3) + a_{1,0,0,0,0,0,-2,0,0,0}^r(x_1(x_4^2 - \\
& y_4^2) + 2x_4 y_1 y_4) + a_{1,0,0,0,0,0,0,0,2,0}^r(x_1(x_5^2 - y_5^2) - 2x_5 y_1 y_5) + a_{1,0,2,0,0,0,0,0,0}^r(x_1(x_2^2 - y_2^2) - \\
& 2x_2 y_1 y_2) + a_{2,0,1,0,0,0,0,0,0,0}^r(-2x_1 y_1 y_2 + x_2(x_1^2 - y_1^2)) + a_{3,0,0,0,0,0,0,0,0,0}^r(x_1(x_1^2 - 3y_1^2) - \\
& b_{-1,0,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2) - b_{-1,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2) - b_{-1,0,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2) - \\
& b_{-1,0,0,1,0,0,0,0,0}^r(x_2^2 + y_2^2) - b_{-1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2) - b_{-2,0,1,0,0,0,0,0,0}^r(2x_1 y_1 y_2 + x_2(x_1^2 - \\
& y_1^2)) - b_{0,0,-1,0,0,0,0,0,1}^r(x_5^2 + y_5^2) - b_{0,0,-1,0,0,0,1,0,0}^r(x_4^2 + y_4^2) - b_{0,0,-1,0,0,1,0,0,0}^r(x_3^2 + \\
& y_3^2) - b_{0,0,-1,1,0,0,0,0,0}^r(x_2^2 + y_2^2) - b_{0,0,0,0,-1,0,1,0,-1,0}^r(x_3(x_4 x_5 + y_4 y_5) + y_3(-x_4 y_5 + x_5 y_4)) - \\
& b_{0,0,0,0,1,0,-1,0,-1,0}^r(x_3(x_4 x_5 - y_4 y_5) + y_3(x_4 y_5 + x_5 y_4)) - b_{0,0,0,1,0,1,0,1,0}^r(x_3(x_4 x_5 - y_4 y_5) + y_3(-x_4 y_5 - \\
& x_5 y_4)) - b_{0,0,1,0,0,0,0,0,-2,0}^r(x_2(x_5^2 - y_5^2) + 2x_5 y_2 y_5) - b_{0,0,1,0,0,0,2,0,0}^r(x_2(x_4^2 - y_4^2) - 2x_4 y_2 y_4) - \\
& b_{0,0,1,0,2,0,0,0,0}^r(x_2(x_3^2 - y_3^2) - 2x_3 y_2 y_3) - b_{0,1,-1,0,0,0,0,0,0}^r(x_1^2 + y_1^2) - b_{1,0,-2,0,0,0,0,0,0}^r(x_1(x_2^2 - \\
& y_2^2) + 2x_2 y_1 y_2) - b_{1,0,0,0,0,0,0,0,-2,0}^r(x_1(x_5^2 - y_5^2) + 2x_5 y_1 y_5) - b_{1,0,0,0,0,2,0,0,0}^r(x_1(x_4^2 - y_4^2) - \\
& 2x_4 y_1 y_4) - b_{1,0,0,0,2,0,0,0,0}^r(x_1(x_3^2 - y_3^2) - 2x_3 y_1 y_3)
\end{aligned}$$

## 5.5 Order: 4

Number of fitting parameters:  $H_{XX}$ : 107 (39 from  $H_{++}$ , 68 from  $H_{+-}$ ),  $H_{XY}$ : 68 (all from  $H_{+-}$ ),  $H_{YY}$ : 68 (all from  $H_{+-}$ ).

### Polar e-coordinates:

$$\begin{aligned}
H_{XX}^{(4)} = & a_{0,0,0,0,0,0,0,0,0,2}^r \rho_5^4 + a_{0,0,0,0,0,0,0,0,1,0,1}^r \rho_4^2 \rho_5^2 + a_{0,0,0,0,0,0,0,2,0,0}^r \rho_4^4 + \\
& a_{0,0,0,0,0,0,2,0,2,0}^r \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,1,0,0,0,1}^r \rho_3^2 \rho_5^2 + a_{0,0,0,0,0,1,0,1,0,0}^r \rho_3^2 \rho_4^2 + \\
& a_{0,0,0,0,0,2,0,0,0,0}^r \rho_3^4 + a_{0,0,0,0,2,0,-2,0,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + \\
& a_{0,0,0,0,2,0,0,0,2,0}^r \rho_3^2 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + a_{0,0,0,1,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 + a_{0,0,0,1,0,0,0,1,0,0}^r \rho_2^2 \rho_4^2 + \\
& a_{0,0,0,1,0,1,0,0,0,0}^r \rho_2^2 \rho_3^2 + a_{0,0,0,2,0,0,0,0,0,0}^r \rho_2^4 + a_{0,0,0,1,0,-1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \\
& \phi_4 - \phi_5) + a_{0,0,1,0,1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{0,0,2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_2 - \\
& 2\phi_5) + a_{0,0,2,0,0,0,2,0,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,1,0,0,0,0,0,0,0,1}^r \rho_1^2 \rho_5^2 + a_{0,1,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 + a_{0,1,0,0,0,1,0,0,0,0}^r \rho_1^2 \rho_3^2 + \\
& a_{0,1,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 + a_{0,2,0,0,0,0,0,0,0,0}^r \rho_1^4 + a_{1,0,-1,0,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,1,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 - \phi_2) + a_{1,0,0,0,-1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + a_{1,0,0,0,1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \\
& \phi_3 + \phi_4 + \phi_5) + a_{1,0,1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,0,2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_3) + a_{1,1,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(\phi_1 - \phi_2) + a_{2,0,-2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_1 - 2\phi_2) + \\
& a_{2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,0,0,0,2,0,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + \\
& a_{2,0,0,0,2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1 + 2\phi_3) + b_{-1,0,-1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,0,0,0,2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_4) + b_{-1,0,-1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 - \\
& 2\phi_3) + b_{-1,0,-3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 + 3\phi_2) + b_{-1,0,0,0,-1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \\
& \phi_4 - \phi_5) + b_{-1,0,0,0,1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,1,0,-2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2 + 2\phi_3) + b_{-1,0,1,0,0,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2 + \\
& 2\phi_4) + b_{-1,0,1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 - \\
& 3\phi_2) + b_{-2,0,-2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_1 + 2\phi_2) + b_{-2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \cos(2\phi_1 + 2\phi_5) + \\
& b_{-2,0,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_1 - 2\phi_4) + b_{-2,0,0,0,2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1 - 2\phi_3) + \\
& b_{-3,0,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(3\phi_1 + \phi_2) + b_{-4,0,0,0,0,0,0,0,0,0}^r \rho_1^4 \cos(4\phi_1) + \\
& b_{0,0,-1,0,-1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) + b_{0,0,-2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_2 + \\
& 2\phi_5) + b_{0,0,-2,0,0,0,2,0,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_2 - 2\phi_4) + b_{0,0,-2,0,2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_2 - 2\phi_3) + \\
& b_{0,0,-4,0,0,0,0,0,0,0}^r \rho_2^4 \cos(4\phi_2) + b_{0,0,0,0,-2,0,0,0,1}^r \rho_3^2 \rho_5^2 \cos(2\phi_3) + \\
& b_{0,0,0,0,-2,0,0,1,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_3) + b_{0,0,0,0,-2,1,0,0,0,0}^r \rho_3^4 \cos(2\phi_3) + \\
& b_{0,0,0,0,0,0,-2,0,0,1}^r \rho_4^2 \rho_5^2 \cos(2\phi_4) + b_{0,0,0,0,0,0,-2,1,0,0}^r \rho_4^4 \cos(2\phi_4) + b_{0,0,0,0,0,0,0,0,-4,0}^r \rho_5^4 \cos(4\phi_5) + \\
& b_{0,0,0,0,0,0,0,0,2,1}^r \rho_5^4 \cos(2\phi_5) + b_{0,0,0,0,0,0,0,1,2,0}^r \rho_4^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,0,0,0,0,0,2,0,-2,0}^r \rho_4^2 \rho_5^2 \cos(2\phi_4 - 2\phi_5) + b_{0,0,0,0,0,0,4,0,0,0}^r \rho_4^4 \cos(4\phi_4) + \\
& b_{0,0,0,0,0,1,-2,0,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_4) + b_{0,0,0,0,0,1,0,0,2,0}^r \rho_3^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,0,0,0,2,0,0,0,-2,0}^r \rho_3^2 \rho_5^2 \cos(2\phi_3 - 2\phi_5) + b_{0,0,0,0,2,0,2,0,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_3 + 2\phi_4) + \\
& b_{0,0,0,0,4,0,0,0,0,0}^r \rho_3^4 \cos(4\phi_3) + b_{0,0,0,1,-2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_3) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,1,0,0,-2,0,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_4) + b_{0,0,0,1,0,0,0,2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,0,-1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) + b_{0,0,1,0,1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \\
& \phi_3 - \phi_4 + \phi_5) + b_{0,0,2,0,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 \cos(2\phi_2) + b_{0,0,2,0,0,0,0,1,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_2) + \\
& b_{0,0,2,0,0,1,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_2) + b_{0,0,2,1,0,0,0,0,0,0}^r \rho_2^4 \cos(2\phi_2) + \\
& b_{0,1,0,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_3) + b_{0,1,0,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_4) + \\
& b_{0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_5^2 \cos(2\phi_5) + b_{0,1,2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(-\phi_1 + \phi_2 + 2\phi_3) + b_{1,0,-1,0,0,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(-\phi_1 + \phi_2 + \\
& 2\phi_4) + b_{1,0,-1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_5) + b_{1,0,0,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(- \\
& \phi_1 + \phi_3 + \phi_4 + \phi_5) + b_{1,0,0,0,-1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,0,0,1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) + b_{1,0,1,0,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 + \\
& \phi_2) + b_{1,0,1,0,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2) + b_{1,0,1,0,0,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2) + \\
& b_{1,0,1,1,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 + \phi_2) + b_{1,1,1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(\phi_1 + \phi_2) + \\
& b_{2,0,0,0,0,0,0,0,0,1}^r \rho_1^2 \rho_5^2 \cos(2\phi_1) + b_{2,0,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_1) + \\
& b_{2,0,0,0,0,1,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1) + b_{2,0,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_1) + \\
& b_{2,1,0,0,0,0,0,0,0,0}^r \rho_1^4 \cos(2\phi_1) + b_{3,0,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(3\phi_1 - \phi_2)
\end{aligned}$$

$$\begin{aligned}
H_{XY}^{(4)} = & b_{-1,0,-1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,-1,0,0,0,2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \sin(\phi_1 + \phi_2 - \\
& 2\phi_4) + b_{-1,0,-1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \sin(\phi_1 + \phi_2 - 2\phi_3) + b_{-1,0,-3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \sin(\phi_1 + \\
& 3\phi_2) + b_{-1,0,0,0,-1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) + b_{-1,0,1,0,-2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \sin(\phi_1 - \\
& \phi_2 + 2\phi_3) + b_{-1,0,1,0,0,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_4) - b_{-1,0,1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \sin(- \\
& \phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \sin(\phi_1 - 3\phi_2) + b_{-2,0,-2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \sin(2\phi_1 + \\
& 2\phi_2) + b_{-2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + b_{-2,0,0,0,0,0,2,0,0,0}^r \rho_1^2 \rho_4^2 \sin(2\phi_1 - 2\phi_4) + \\
& b_{-2,0,0,0,2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \sin(2\phi_1 - 2\phi_3) + b_{-3,0,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \sin(3\phi_1 + \phi_2) + \\
& b_{-4,0,0,0,0,0,0,0,0,0}^r \rho_1^4 \sin(4\phi_1) + b_{0,0,-1,0,-1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) + b_{0,0,-2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \sin(2\phi_2 + \\
& 2\phi_5) + b_{0,0,-2,0,0,0,2,0,0,0}^r \rho_2^2 \rho_4^2 \sin(2\phi_2 - 2\phi_4) + b_{0,0,-2,0,2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \sin(2\phi_2 - 2\phi_3) + \\
& b_{0,0,-4,0,0,0,0,0,0,0}^r \rho_2^4 \sin(4\phi_2) + b_{0,0,0,0,-2,0,0,0,0,1}^r \rho_3^2 \rho_5^2 \sin(2\phi_3) + \\
& b_{0,0,0,0,-2,0,0,1,0,0}^r \rho_3^2 \rho_4^2 \sin(2\phi_3) + b_{0,0,0,0,-2,1,0,0,0,0}^r \rho_3^4 \sin(2\phi_3) + \\
& b_{0,0,0,0,0,0,-2,0,0,1}^r \rho_4^2 \rho_5^2 \sin(2\phi_4) + b_{0,0,0,0,0,0,-2,1,0,0}^r \rho_4^4 \sin(2\phi_4) + \\
& b_{0,0,0,0,0,0,0,0,-4,0}^r \rho_5^4 \sin(4\phi_5) - b_{0,0,0,0,0,0,0,2,1}^r \rho_5^4 \sin(2\phi_5) - \\
& b_{0,0,0,0,0,0,0,1,2,0}^r \rho_4^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,0,0,2,0,-2,0}^r \rho_4^2 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,0,4,0,0,0}^r \rho_4^4 \sin(4\phi_4) + b_{0,0,0,0,0,1,-2,0,0,0}^r \rho_3^2 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,0,0,1,0,0,2,0}^r \rho_3^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,2,0,0,0,-2,0}^r \rho_3^2 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,0,2,0,2,0,0,0}^r \rho_3^2 \rho_4^2 \sin(2\phi_3 + 2\phi_4) - b_{0,0,0,0,4,0,0,0,0,0}^r \rho_3^4 \sin(4\phi_3) + \\
& b_{0,0,0,1,-2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \sin(2\phi_3) + b_{0,0,0,1,0,0,-2,0,0,0}^r \rho_2^2 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,1,0,0,0,0,2,0}^r \rho_2^2 \rho_5^2 \sin(2\phi_5) + b_{0,0,1,0,-1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - b_{0,0,2,0,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 \sin(2\phi_2) - \\
& b_{0,0,2,0,0,0,0,1,0,0}^r \rho_2^2 \rho_4^2 \sin(2\phi_2) - b_{0,0,2,0,0,1,0,0,0,0}^r \rho_2^2 \rho_3^2 \sin(2\phi_2) - \\
& b_{0,0,2,1,0,0,0,0,0,0}^r \rho_2^4 \sin(2\phi_2) + b_{0,1,0,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \sin(2\phi_3) +
\end{aligned}$$



$$\begin{aligned}
& b_{0,1,0,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_4^2 \sin(2\phi_4) - b_{0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_5^2 \sin(2\phi_5) - \\
& b_{0,1,2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \sin(2\phi_2) + b_{1,0,-1,0,-2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \sin(-\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{1,0,-1,0,0,0,-2,0,0}^r \rho_1 \rho_2 \rho_4^2 \sin(-\phi_1 + \phi_2 + 2\phi_4) - b_{1,0,-1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \sin(\phi_1 - \phi_2 + \\
& 2\phi_5) + b_{1,0,0,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - b_{1,0,1,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \sin(\phi_1 + \\
& \phi_2) - b_{1,0,1,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \sin(\phi_1 + \phi_2) - b_{1,0,1,0,0,1,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,1,0,0,0,0,0}^r \rho_1 \rho_2^3 \sin(\phi_1 + \phi_2) - b_{1,1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \sin(\phi_1 + \phi_2) - \\
& b_{2,0,0,0,0,0,0,0,1}^r \rho_1^2 \rho_5^2 \sin(2\phi_1) - b_{2,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 \sin(2\phi_1) - \\
& b_{2,0,0,0,0,1,0,0,0}^r \rho_1^2 \rho_3^2 \sin(2\phi_1) - b_{2,0,0,1,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \sin(2\phi_1) - \\
& b_{2,1,0,0,0,0,0,0,0}^r \rho_1^4 \sin(2\phi_1) - b_{3,0,-1,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \sin(3\phi_1 - \phi_2)
\end{aligned}$$

$$\begin{aligned}
H_{YX}^{(4)} = & b_{-1,0,-1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,-1,0,0,0,2,0,0}^r \rho_1 \rho_2 \rho_4^2 \sin(\phi_1 + \phi_2 - \\
& 2\phi_4) + b_{-1,0,-1,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \sin(\phi_1 + \phi_2 - 2\phi_3) + b_{-1,0,-3,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \sin(\phi_1 + \\
& 3\phi_2) + b_{-1,0,0,0,-1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) + b_{-1,0,1,0,-2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \sin(\phi_1 - \\
& \phi_2 + 2\phi_3) + b_{-1,0,1,0,0,0,-2,0,0}^r \rho_1 \rho_2 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_4) - b_{-1,0,1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \sin(\phi_1 - \\
& \phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,3,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \sin(\phi_1 - 3\phi_2) + b_{-2,0,-2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \sin(2\phi_1 + \\
& 2\phi_2) + b_{-2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + b_{-2,0,0,0,0,0,2,0,0}^r \rho_1^2 \rho_4^2 \sin(2\phi_1 - 2\phi_4) + \\
& b_{-2,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^2 \sin(2\phi_1 - 2\phi_3) + b_{-3,0,-1,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \sin(3\phi_1 + \phi_2) + \\
& b_{-4,0,0,0,0,0,0,0,0}^r \rho_1^4 \sin(4\phi_1) + b_{0,0,-1,0,-1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) + b_{0,0,-2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \sin(2\phi_2 + \\
& 2\phi_5) + b_{0,0,-2,0,0,0,2,0,0}^r \rho_2^2 \rho_4^2 \sin(2\phi_2 - 2\phi_4) + b_{0,0,-2,0,2,0,0,0,0}^r \rho_2^2 \rho_3^2 \sin(2\phi_2 - 2\phi_3) + \\
& b_{0,0,-4,0,0,0,0,0,0}^r \rho_2^4 \sin(4\phi_2) + b_{0,0,0,0,-2,0,0,0,1}^r \rho_3^2 \rho_5^2 \sin(2\phi_3) + \\
& b_{0,0,0,0,-2,0,0,1,0,0}^r \rho_3^2 \rho_4^2 \sin(2\phi_3) + b_{0,0,0,0,-2,1,0,0,0}^r \rho_3^4 \sin(2\phi_3) + \\
& b_{0,0,0,0,0,0,-2,0,0,1}^r \rho_4^2 \rho_5^2 \sin(2\phi_4) + b_{0,0,0,0,0,0,-2,1,0,0}^r \rho_4^4 \sin(2\phi_4) + \\
& b_{0,0,0,0,0,0,0,0,-4,0}^r \rho_5^4 \sin(4\phi_5) - b_{0,0,0,0,0,0,0,2,1}^r \rho_5^4 \sin(2\phi_5) - \\
& b_{0,0,0,0,0,0,0,1,2,0}^r \rho_4^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,0,0,2,0,-2,0}^r \rho_4^2 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,0,4,0,0}^r \rho_4^4 \sin(4\phi_4) + b_{0,0,0,0,0,1,-2,0,0}^r \rho_3^2 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,0,0,1,0,0,2,0}^r \rho_3^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,2,0,0,0,-2,0}^r \rho_3^2 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,0,2,0,2,0,0}^r \rho_3^2 \rho_4^2 \sin(2\phi_3 + 2\phi_4) - b_{0,0,0,0,4,0,0,0,0}^r \rho_4^4 \sin(4\phi_3) + \\
& b_{0,0,0,1,-2,0,0,0,0}^r \rho_2^2 \rho_3^2 \sin(2\phi_3) + b_{0,0,0,1,0,0,-2,0,0}^r \rho_2^2 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,1,0,0,0,0,2,0}^r \rho_2^2 \rho_5^2 \sin(2\phi_5) + b_{0,0,1,0,-1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - b_{0,0,2,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 \sin(2\phi_2) - \\
& b_{0,0,2,0,0,0,0,1,0,0}^r \rho_2^2 \rho_4^2 \sin(2\phi_2) - b_{0,0,2,0,0,1,0,0,0}^r \rho_2^2 \rho_3^2 \sin(2\phi_2) - \\
& b_{0,0,2,1,0,0,0,0,0}^r \rho_2^4 \sin(2\phi_2) + b_{0,1,0,0,-2,0,0,0,0}^r \rho_1^2 \rho_3^2 \sin(2\phi_3) + \\
& b_{0,1,0,0,0,0,-2,0,0}^r \rho_1^2 \rho_4^2 \sin(2\phi_4) - b_{0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_5^2 \sin(2\phi_5) - \\
& b_{0,1,2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \sin(2\phi_2) + b_{1,0,-1,0,-2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \sin(-\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{1,0,-1,0,0,0,-2,0,0}^r \rho_1 \rho_2 \rho_4^2 \sin(-\phi_1 + \phi_2 + 2\phi_4) - b_{1,0,-1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \sin(\phi_1 - \phi_2 + \\
& 2\phi_5) + b_{1,0,0,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,0,0,1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - b_{1,0,1,0,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \sin(\phi_1 + \\
& \phi_2) - b_{1,0,1,0,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \sin(\phi_1 + \phi_2) - b_{1,0,1,0,0,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,1,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \sin(\phi_1 + \phi_2) - b_{1,1,1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \sin(\phi_1 + \phi_2) - \\
& b_{2,0,0,0,0,0,0,0,0,1}^r \rho_1^2 \rho_5^2 \sin(2\phi_1) - b_{2,0,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 \sin(2\phi_1) - \\
& b_{2,0,0,0,0,1,0,0,0,0}^r \rho_1^2 \rho_3^2 \sin(2\phi_1) - b_{2,0,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \sin(2\phi_1) - \\
& b_{2,1,0,0,0,0,0,0,0,0}^r \rho_1^4 \sin(2\phi_1) - b_{3,0,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \sin(3\phi_1 - \phi_2)
\end{aligned}$$

$$\begin{aligned}
H_{YY}^{(4)} = & a_{0,0,0,0,0,0,0,0,0,2}^r \rho_5^4 + a_{0,0,0,0,0,0,0,0,1,0,1}^r \rho_4^2 \rho_5^2 + a_{0,0,0,0,0,0,0,0,2,0,0}^r \rho_4^4 + \\
& a_{0,0,0,0,0,0,0,2,0,2,0}^r \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,0,1,0,0,0,1}^r \rho_3^2 \rho_5^2 + \\
& a_{0,0,0,0,0,0,1,0,1,0,0}^r \rho_3^2 \rho_4^2 + a_{0,0,0,0,0,2,0,0,0,0}^r \rho_3^4 + a_{0,0,0,0,2,0,-2,0,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + \\
& a_{0,0,0,0,2,0,0,0,0,2,0}^r \rho_3^2 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + a_{0,0,0,1,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 + \\
& a_{0,0,0,1,0,0,0,1,0,0}^r \rho_2^2 \rho_4^2 + a_{0,0,0,1,0,1,0,0,0,0}^r \rho_2^2 \rho_3^2 + a_{0,0,0,2,0,0,0,0,0,0}^r \rho_2^4 + \\
& a_{0,0,1,0,-1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{0,0,2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_2 - \\
& 2\phi_5) + a_{0,0,2,0,0,0,2,0,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,1,0,0,0,0,0,0,0,1}^r \rho_1^2 \rho_5^2 + a_{0,1,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 + a_{0,1,0,0,0,1,0,0,0,0}^r \rho_1^2 \rho_3^2 + \\
& a_{0,1,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 + a_{0,2,0,0,0,0,0,0,0,0}^r \rho_1^4 + a_{1,0,-1,0,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,1,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 - \phi_2) + a_{1,0,0,0,-1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + a_{1,0,1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 + \\
& \phi_2 - 2\phi_5) + a_{1,0,1,0,0,0,2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + \\
& a_{1,0,1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,1,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(\phi_1 - \phi_2) + \\
& a_{2,0,-2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_1 - 2\phi_2) + a_{2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,0,0,0,0,0,2,0,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + a_{2,0,0,0,2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1 + 2\phi_3) - \\
& b_{-1,0,-1,0,0,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) - b_{-1,0,-1,0,0,0,2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 - \\
& 2\phi_4) - b_{-1,0,-1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 - 2\phi_3) - b_{-1,0,-3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 + \\
& 3\phi_2) - b_{-1,0,0,0,-1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{-1,0,0,0,1,0,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) - b_{-1,0,1,0,-2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 - \\
& \phi_2 + 2\phi_3) - b_{-1,0,1,0,0,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_4) - b_{-1,0,1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(- \\
& \phi_1 + \phi_2 + 2\phi_5) - b_{-1,0,3,0,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 - 3\phi_2) - b_{-2,0,-2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_1 + \\
& 2\phi_2) - b_{-2,0,0,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_5^2 \cos(2\phi_1 + 2\phi_5) - b_{-2,0,0,0,0,2,0,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_1 - 2\phi_4) - \\
& b_{-2,0,0,0,2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1 - 2\phi_3) - b_{-3,0,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(3\phi_1 + \phi_2) - \\
& b_{-4,0,0,0,0,0,0,0,0,0}^r \rho_1^4 \cos(4\phi_1) - b_{0,0,-1,0,-1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,-1,0,1,0,1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) - b_{0,0,-2,0,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_2 + \\
& 2\phi_5) - b_{0,0,-2,0,0,0,2,0,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_2 - 2\phi_4) - b_{0,0,-2,0,2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_2 - 2\phi_3) - \\
& b_{0,0,-4,0,0,0,0,0,0,0}^r \rho_2^4 \cos(4\phi_2) - b_{0,0,0,0,-2,0,0,0,0,1}^r \rho_3^2 \rho_5^2 \cos(2\phi_3) - \\
& b_{0,0,0,0,-2,0,0,1,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_3) - b_{0,0,0,0,-2,1,0,0,0}^r \rho_3^4 \cos(2\phi_3) - \\
& b_{0,0,0,0,0,0,-2,0,0,1}^r \rho_4^2 \rho_5^2 \cos(2\phi_4) - b_{0,0,0,0,0,0,-2,1,0,0}^r \rho_4^4 \cos(2\phi_4) - \\
& b_{0,0,0,0,0,0,0,0,-4,0}^r \rho_5^4 \cos(4\phi_5) - b_{0,0,0,0,0,0,0,0,2,1}^r \rho_5^4 \cos(2\phi_5) - \\
& b_{0,0,0,0,0,0,0,1,2,0}^r \rho_4^2 \rho_5^2 \cos(2\phi_5) - b_{0,0,0,0,0,0,2,0,-2,0}^r \rho_4^2 \rho_5^2 \cos(2\phi_4 - 2\phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,0,0,0,4,0,0,0}^r \rho_4^4 \cos(4\phi_4) - b_{0,0,0,0,0,1,-2,0,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_4) - \\
& b_{0,0,0,0,0,1,0,0,2,0}^r \rho_3^2 \rho_5^2 \cos(2\phi_5) - b_{0,0,0,0,2,0,0,0,-2,0}^r \rho_3^2 \rho_5^2 \cos(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,0,2,0,2,0,0,0}^r \rho_3^2 \rho_4^2 \cos(2\phi_3 + 2\phi_4) - b_{0,0,0,0,4,0,0,0,0,0}^r \rho_3^4 \cos(4\phi_3) - \\
& b_{0,0,0,1,-2,0,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_3) - b_{0,0,0,1,0,0,-2,0,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_4) - \\
& b_{0,0,0,1,0,0,0,0,2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_5) - b_{0,0,1,0,-1,0,-1,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,0,1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,1,0,-1,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) - b_{0,0,2,0,0,0,0,0,1}^r \rho_2^2 \rho_5^2 \cos(2\phi_2) - \\
& b_{0,0,2,0,0,0,0,1,0,0}^r \rho_2^2 \rho_4^2 \cos(2\phi_2) - b_{0,0,2,0,0,1,0,0,0,0}^r \rho_2^2 \rho_3^2 \cos(2\phi_2) - \\
& b_{0,0,2,1,0,0,0,0,0,0}^r \rho_2^4 \cos(2\phi_2) - b_{0,1,0,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_3) - \\
& b_{0,1,0,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_4) - b_{0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_5^2 \cos(2\phi_5) - \\
& b_{0,1,2,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_2) - b_{1,0,-1,0,-2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(-\phi_1 + \phi_2 + 2\phi_3) - \\
& b_{1,0,-1,0,0,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(-\phi_1 + \phi_2 + 2\phi_4) - b_{1,0,-1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2 + \\
& 2\phi_5) - b_{1,0,0,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,1,0,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) - b_{1,0,1,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 + \\
& \phi_2) - b_{1,0,1,0,0,0,0,1,0,0}^r \rho_1 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2) - b_{1,0,1,0,0,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2) - \\
& b_{1,0,1,1,0,0,0,0,0,0}^r \rho_1 \rho_2^3 \cos(\phi_1 + \phi_2) - b_{1,1,1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(\phi_1 + \phi_2) - \\
& b_{2,0,0,0,0,0,0,0,0,1}^r \rho_1^2 \rho_5^2 \cos(2\phi_1) - b_{2,0,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_4^2 \cos(2\phi_1) - \\
& b_{2,0,0,0,0,1,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1) - b_{2,0,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(2\phi_1) - \\
& b_{2,1,0,0,0,0,0,0,0,0}^r \rho_1^4 \cos(2\phi_1) - b_{3,0,-1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2 \cos(3\phi_1 - \phi_2)
\end{aligned}$$

**Cartesian e-coordinates:**

$$\begin{aligned}
H_{XX}^{(4)} = & a_{0,0,0,0,0,0,0,0,0,2}^r (x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,0,0,1,0,1}^r (x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,0,0,0,0,2,0,0}^r (x_4^2 + y_4^2)^2 + \\
& a_{0,0,0,0,0,0,2,0,2,0}^r (x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,1,0,0,0,1}^r (x_3^2 + y_3^2)(x_5^2 + \\
& y_5^2) + a_{0,0,0,0,0,1,0,1,0,0}^r (x_3^2 + y_3^2)(x_4^2 + y_4^2) + a_{0,0,0,0,0,2,0,0,0,0}^r (x_3^2 + y_3^2)^2 + a_{0,0,0,0,2,0,-2,0,0,0}^r (x_3(x_4 - \\
& y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,0,0,0,2,0}^r (x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + \\
& y_3(x_5 - y_5)) + a_{0,0,0,1,0,0,0,0,0,1}^r (x_2^2 + y_2^2)(x_5^2 + y_5^2) + a_{0,0,0,1,0,0,0,1,0,0}^r (x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& a_{0,0,0,1,0,1,0,0,0,0}^r (x_2^2 + y_2^2)(x_3^2 + y_3^2) + a_{0,0,0,2,0,0,0,0,0,0}^r (x_2^2 + y_2^2)^2 + a_{0,0,1,0,-1,0,1,0,-1,0}^r (x_2(x_3x_4x_5 + \\
& x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,1,0,1,0,-1,0,-1,0}^r (x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + \\
& y_3y_4y_5)) + a_{0,0,1,0,1,0,1,0,1,0}^r (x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,2,0,0,0,0,0,-2,0}^r (x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,2,0,0,0}^r (x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,2,0,0,0,0,0}^r (x_2(x_3 - y_3) + y_2(-x_3 - \\
& y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,1,0,0,0,0,0,0,0,1}^r (x_1^2 + y_1^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,0,0,1,0,0}^r (x_1^2 + \\
& y_1^2)(x_4^2 + y_4^2) + a_{0,1,0,0,0,1,0,0,0,0}^r (x_1^2 + y_1^2)(x_3^2 + y_3^2) + a_{0,1,0,1,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_2^2 + y_2^2) + \\
& a_{0,2,0,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)^2 + a_{1,0,-1,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,0,0,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1x_2 + \\
& y_1y_2) + a_{1,0,0,0,-1,0,1,0,-1,0}^r (x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,-1,0,-1,0}^r (x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + \\
& x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,1,0,1,0}^r (x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,1,0,0,0,0,0,-2,0}^r (x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_4) + \\
& y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,2,0,0,0}^r (x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 -
\end{aligned}$$

$$\begin{aligned}
& x_4^2 y_2 + y_2 y_4^2)) + a_{1,0,1,0,2,0,0,0,0}^r (x_1(x_2 x_3^2 - x_2 y_3^2 - 2x_3 y_2 y_3) + y_1(-2x_2 x_3 y_3 - x_3^2 y_2 + \\
& y_2 y_3^2)) + a_{1,1,-1,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_2 + y_1 y_2) + a_{2,0,-2,0,0,0,0,0,0}^r (x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + \\
& y_2) + y_1(-x_2 + y_2)) + a_{2,0,0,0,0,0,0,0,-2,0}^r (x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + \\
& a_{2,0,0,0,0,0,2,0,0,0}^r (x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,2,0,0,0,0,0}^r (x_1(x_3 - y_3) + y_1(-x_3 - \\
& y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + b_{-1,0,-1,0,0,0,0,0,-2,0}^r (x_1(x_2 x_5^2 - x_2 y_5^2 - 2x_5 y_2 y_5) + y_1(-2x_2 x_5 y_5 - \\
& x_5^2 y_2 + y_2 y_5^2)) + b_{-1,0,-1,0,0,0,2,0,0,0}^r (x_1(x_2 x_4^2 - x_2 y_4^2 + 2x_4 y_2 y_4) + y_1(2x_2 x_4 y_4 - x_4^2 y_2 + \\
& y_2 y_4^2)) + b_{-1,0,-1,0,2,0,0,0,0,0}^r (x_1(x_2 x_3^2 - x_2 y_3^2 + 2x_3 y_2 y_3) + y_1(2x_2 x_3 y_3 - x_3^2 y_2 + y_2 y_3^2)) + \\
& b_{-1,0,-3,0,0,0,0,0,0,0}^r (x_1(x_3^2 - 3x_2 y_2^2) + y_1(-3x_2^2 y_2 + y_2^3)) + b_{-1,0,0,0,-1,0,-1,0,1,0}^r (x_1(x_3 x_4 x_5 + x_3 y_4 y_5 + \\
& x_4 y_3 y_5 - x_5 y_3 y_4) + y_1(x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 - y_3 y_4 y_5)) + b_{-1,0,0,0,1,0,1,0,-1,0}^r (x_1(x_3 x_4 x_5 + \\
& x_3 y_4 y_5 + x_4 y_3 y_5 - x_5 y_3 y_4) + y_1(-x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5)) + \\
& b_{-1,0,1,0,-2,0,0,0,0,0}^r (x_1(x_2 x_3^2 - x_2 y_3^2 + 2x_3 y_2 y_3) + y_1(-2x_2 x_3 y_3 + x_3^2 y_2 - y_2 y_3^2)) + \\
& b_{-1,0,1,0,0,0,-2,0,0,0}^r (x_1(x_2 x_4^2 - x_2 y_4^2 + 2x_4 y_2 y_4) + y_1(-2x_2 x_4 y_4 + x_4^2 y_2 - y_2 y_4^2)) + \\
& b_{-1,0,1,0,0,0,0,0,2,0}^r (x_1(x_2 x_5^2 - x_2 y_5^2 - 2x_5 y_2 y_5) + y_1(2x_2 x_5 y_5 + x_5^2 y_2 - y_2 y_5^2)) + \\
& b_{-1,0,3,0,0,0,0,0,0,0}^r (x_1(x_2^3 - 3x_2 y_2^2) + y_1(3x_2^2 y_2 - y_2^3)) + b_{-2,0,-2,0,0,0,0,0,0,0}^r (x_1(x_2 - y_2) + y_1(-x_2 - \\
& y_2))(x_1(x_2 + y_2) + y_1(x_2 - y_2)) + b_{-2,0,0,0,0,0,0,0,-2,0}^r (x_1(x_5 - y_5) + y_1(-x_5 - y_5))(x_1(x_5 + y_5) + y_1(x_5 - y_5)) + \\
& b_{-2,0,0,0,0,2,0,0,0,0}^r (x_1(x_4 - y_4) + y_1(x_4 + y_4))(x_1(x_4 + y_4) + y_1(-x_4 + y_4)) + b_{-2,0,0,0,2,0,0,0,0,0}^r (x_1(x_3 - y_3) + y_1(x_3 + \\
& y_3))(x_1(x_3 + y_3) + y_1(-x_3 + y_3)) + b_{-3,0,-1,0,0,0,0,0,0,0}^r (x_1^3 x_2 - 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + y_1^3 y_2) + \\
& b_{-4,0,0,0,0,0,0,0,0,0}^r (x_1^2 - 2x_1 y_1 - y_1^2)(x_1^2 + 2x_1 y_1 - y_1^2) + b_{0,0,-1,0,-1,0,1,0}^r (x_2(x_3 x_4 x_5 + x_3 y_4 y_5 + \\
& x_4 y_3 y_5 - x_5 y_3 y_4) + y_2(x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 - y_3 y_4 y_5)) + b_{0,0,-1,0,1,0,1,0,-1,0}^r (x_2(x_3 x_4 x_5 + \\
& x_3 y_4 y_5 + x_4 y_3 y_5 - x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5)) + b_{0,0,-2,0,0,0,0,0,-2,0}^r (x_2(x_5 - \\
& y_5) + y_2(-x_5 - y_5))(x_2(x_5 + y_5) + y_2(x_5 - y_5)) + b_{0,0,-2,0,0,0,2,0,0,0}^r (x_2(x_4 - y_4) + y_2(x_4 + y_4))(x_2(x_4 + y_4) + y_2(- \\
& x_4 + y_4)) + b_{0,0,-2,0,2,0,0,0,0,0}^r (x_2(x_3 - y_3) + y_2(x_3 + y_3))(x_2(x_3 + y_3) + y_2(-x_3 + y_3)) + b_{0,0,-4,0,0,0,0,0,0,0}^r (x_2^2 - \\
& 2x_2 y_2 - y_2^2)(x_2^2 + 2x_2 y_2 - y_2^2) + b_{0,0,0,0,-2,0,0,0,0,1}^r (x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) + b_{0,0,0,0,-2,0,0,1,0,0}^r (x_3 - \\
& y_3)(x_3 + y_3)(x_4^2 + y_4^2) + b_{0,0,0,0,-2,1,0,0,0,0}^r (x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + b_{0,0,0,0,0,0,-2,0,0,1}^r (x_4 - y_4)(x_4 + \\
& y_4)(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,-2,1,0,0}^r (x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + b_{0,0,0,0,0,0,0,0,-4,0}^r (x_5^2 - 2x_5 y_5 - \\
& y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) + b_{0,0,0,0,0,0,0,0,2,1}^r (x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,0,1,2,0}^r (x_4^2 + \\
& y_4^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,0,0,0,2,0,-2,0}^r (x_4(x_5 - y_5) + y_4(x_5 + y_5))(x_4(x_5 + y_5) + y_4(-x_5 + y_5)) + \\
& b_{0,0,0,0,0,0,4,0,0,0}^r (x_4^2 - 2x_4 y_4 - y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) + b_{0,0,0,0,0,1,-2,0,0,0}^r (x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) + \\
& b_{0,0,0,0,0,1,0,0,2,0}^r (x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,0,2,0,0,0,-2,0}^r (x_3(x_5 - y_5) + y_3(x_5 + y_5))(x_3(x_5 + y_5) + y_3(- \\
& x_5 + y_5)) + b_{0,0,0,0,2,0,2,0,0,0}^r (x_3(x_4 - y_4) + y_3(-x_4 - y_4))(x_3(x_4 + y_4) + y_3(x_4 - y_4)) + b_{0,0,0,0,4,0,0,0,0,0}^r (x_3^2 - \\
& 2x_3 y_3 - y_3^2)(x_3^2 + 2x_3 y_3 - y_3^2) + b_{0,0,0,1,-2,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3) + b_{0,0,0,1,0,0,-2,0,0,0}^r (x_2^2 + \\
& y_2^2)(x_4 - y_4)(x_4 + y_4) + b_{0,0,0,1,0,0,0,0,2,0}^r (x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,1,0,-1,0,-1,0,-1,0}^r (x_2(x_3 x_4 x_5 - \\
& x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_2(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5)) + \\
& b_{0,0,1,0,-1,0,1,0,1,0}^r (x_2(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 - x_3 x_5 y_4 + x_4 x_5 y_3 - \\
& y_3 y_4 y_5)) + b_{0,0,1,0,1,0,-1,0,1,0}^r (x_2(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 + x_3 x_5 y_4 - \\
& x_4 x_5 y_3 - y_3 y_4 y_5)) + b_{0,0,2,0,0,0,0,0,0,1}^r (x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) + b_{0,0,2,0,0,0,0,1,0,0}^r (x_2 - y_2)(x_2 + \\
& y_2)(x_4^2 + y_4^2) + b_{0,0,2,0,0,1,0,0,0,0}^r (x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2) + b_{0,0,2,1,0,0,0,0,0,0}^r (x_2 - y_2)(x_2 + y_2)(x_2^2 + \\
& y_2^2) + b_{0,1,0,0,-2,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3) + b_{0,1,0,0,0,0,-2,0,0,0}^r (x_1^2 + y_1^2)(x_4 - y_4)(x_4 + y_4) + \\
& b_{0,1,0,0,0,0,0,0,2,0}^r (x_1^2 + y_1^2)(x_5 - y_5)(x_5 + y_5) + b_{0,1,2,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,0}^r (x_1(x_2 x_3^2 - x_2 y_3^2 - 2x_3 y_2 y_3) + y_1(2x_2 x_3 y_3 + x_3^2 y_2 - y_2 y_3^2)) + \\
& b_{1,0,-1,0,0,0,-2,0,0,0}^r (x_1(x_2 x_4^2 - x_2 y_4^2 - 2x_4 y_2 y_4) + y_1(2x_2 x_4 y_4 + x_4^2 y_2 - y_2 y_4^2)) + \\
& b_{1,0,-1,0,0,0,0,0,2,0}^r (x_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5) + y_1(-2x_2 x_5 y_5 + x_5^2 y_2 - y_2 y_5^2)) +
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,0,0,-1,0,-1,0,-1,0}^r(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 - \\
& y_3y_4y_5)) + b_{1,0,0,0,-1,0,1,0,1,0}^r(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(-x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 - y_3y_4y_5)) + b_{1,0,0,0,1,0,-1,0,1,0}^r(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(-x_3x_4y_5 + \\
& x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5)) + b_{1,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) + b_{1,0,1,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2 - y_1y_2) + b_{1,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2 - y_1y_2) + b_{1,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2 - \\
& y_1y_2) + b_{1,1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2 - y_1y_2) + b_{2,0,0,0,0,0,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_5^2 + y_5^2) + \\
& b_{2,0,0,0,0,0,0,1,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2) + b_{2,0,0,0,0,1,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2) + \\
& b_{2,0,0,1,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2) + b_{2,1,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2) + \\
& b_{3,0,-1,0,0,0,0,0,0,0}^r(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2)
\end{aligned}$$

$$\begin{aligned}
H_{XY}^{(4)} = & b_{-1,0,-1,0,0,0,0,0,-2,0}^r(x_1(2x_2x_5y_5 + x_5^2y_2 - y_2y_5^2) + y_1(x_2x_5^2 - x_2y_5^2 - 2x_5y_2y_5)) - \\
& b_{-1,0,-1,0,0,0,2,0,0,0}^r(x_1(2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2) + y_1(-x_2x_4^2 + x_2y_4^2 - 2x_4y_2y_4)) - \\
& b_{-1,0,-1,0,2,0,0,0,0,0}^r(x_1(2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2) + y_1(-x_2x_3^2 + x_2y_3^2 - 2x_3y_2y_3)) + \\
& b_{-1,0,-3,0,0,0,0,0,0,0}^r(x_1(3x_2^2y_2 - y_2^3) + y_1(x_2^3 - 3x_2y_2^2)) - b_{-1,0,0,0,-1,0,-1,0,1,0}^r(x_1(x_3x_4y_5 - x_3x_5y_4 - \\
& x_4x_5y_3 - y_3y_4y_5) + y_1(-x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)) + b_{-1,0,0,0,1,0,1,0,-1,0}^r(x_1(x_3x_4y_5 - \\
& x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5) + y_1(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4)) + \\
& b_{-1,0,1,0,-2,0,0,0,0,0}^r(x_1(2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2) + y_1(x_2x_3^2 - x_2y_3^2 + 2x_3y_2y_3)) + \\
& b_{-1,0,1,0,0,0,-2,0,0,0}^r(x_1(2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2) + y_1(x_2x_4^2 - x_2y_4^2 + 2x_4y_2y_4)) - \\
& b_{-1,0,1,0,0,0,0,0,2,0}^r(x_1(2x_2x_5y_5 + x_5^2y_2 - y_2y_5^2) + y_1(-x_2x_5^2 + x_2y_5^2 + 2x_5y_2y_5)) - \\
& b_{-1,0,3,0,0,0,0,0,0,0}^r(x_1(3x_2^2y_2 - y_2^3) + y_1(-x_2^3 + 3x_2y_2^2)) + 2b_{-2,0,-2,0,0,0,0,0,0,0}^r(x_1x_2 - y_1y_2)(x_1y_2 + \\
& x_2y_1) + 2b_{-2,0,0,0,0,0,0,0,-2,0}^r(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - 2b_{-2,0,0,0,0,0,2,0,0,0}^r(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) - \\
& 2b_{-2,0,0,0,2,0,0,0,0,0}^r(x_1x_3 + y_1y_3)(x_1y_3 - x_3y_1) + b_{-3,0,-1,0,0,0,0,0,0,0}^r(x_1^3y_2 + 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - \\
& x_2y_1^3) + 4b_{-4,0,0,0,0,0,0,0,0,0}^r(x_1y_1(x_1 - y_1)(x_1 + y_1) - b_{0,0,-1,0,-1,0,-1,0,1,0}^r(x_2(x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 - \\
& y_3y_4y_5) + y_2(-x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)) + b_{0,0,-1,0,1,0,1,0,-1,0}^r(x_2(x_3x_4y_5 - x_3x_5y_4 - \\
& x_4x_5y_3 - y_3y_4y_5) + y_2(x_3x_4x_5 + x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4)) + 2b_{0,0,-2,0,0,0,0,0,-2,0}^r(x_2x_5 - \\
& y_2y_5)(x_2y_5 + x_5y_2) - 2b_{0,0,-2,0,0,0,2,0,0,0}^r(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) - 2b_{0,0,-2,0,2,0,0,0,0,0}^r(x_2x_3 + \\
& y_2y_3)(x_2y_3 - x_3y_2) + 4b_{0,0,-4,0,0,0,0,0,0,0}^r(x_2y_2(x_2 - y_2)(x_2 + y_2) + 2b_{0,0,0,0,-2,0,0,0,0,1}^r(x_3y_3(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,0,-2,0,0,1,0,0}^r(x_4^2 + y_4^2) + 2b_{0,0,0,0,-2,1,0,0,0}^r(x_3y_3(x_3^2 + y_3^2) + 2b_{0,0,0,0,0,0,-2,0,1}^r(x_4y_4(x_5^2 + \\
& y_5^2) + 2b_{0,0,0,0,0,0,-2,1,0,0}^r(x_4y_4(x_4^2 + y_4^2) + 4b_{0,0,0,0,0,0,0,0,-4,0}^r(x_5y_5(x_5 - y_5)(x_5 + y_5) - \\
& 2b_{0,0,0,0,0,0,0,0,2,1}^r(x_5y_5(x_5^2 + y_5^2) - 2b_{0,0,0,0,0,0,0,1,2,0}^r(x_5y_5(x_4^2 + y_4^2) + 2b_{0,0,0,0,0,0,2,0,-2,0}^r(x_4x_5 + \\
& y_4y_5)(x_4y_5 - x_5y_4) - 4b_{0,0,0,0,0,0,4,0,0,0}^r(x_4y_4(x_4 - y_4)(x_4 + y_4) + 2b_{0,0,0,0,0,0,1,-2,0,0}^r(x_4y_4(x_3^2 + y_3^2) - \\
& 2b_{0,0,0,0,0,1,0,0,2,0}^r(x_5y_5(x_3^2 + y_3^2) + 2b_{0,0,0,0,2,0,0,0,-2,0}^r(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - \\
& 2b_{0,0,0,0,2,0,2,0,0,0}^r(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) - 4b_{0,0,0,0,4,0,0,0,0,0}^r(x_3y_3(x_3 - y_3)(x_3 + y_3) + \\
& 2b_{0,0,0,1,-2,0,0,0,0,0}^r(x_3y_3(x_2^2 + y_2^2) + 2b_{0,0,0,1,0,0,-2,0,0,0}^r(x_4y_4(x_2^2 + y_2^2) - 2b_{0,0,0,1,0,0,0,0,2,0}^r(x_5y_5(x_2^2 + \\
& y_2^2) + b_{0,0,1,0,-1,0,-1,0,-1,0}^r(x_2(x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 - y_3y_4y_5) + y_2(-x_3x_4x_5 + x_3y_4y_5 + \\
& x_4y_3y_5 + x_5y_3y_4)) - b_{0,0,1,0,-1,0,1,0,1,0}^r(x_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5) + y_2(x_3x_4x_5 - \\
& x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4)) - b_{0,0,1,0,1,0,-1,0,1,0}^r(x_2(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5) + \\
& y_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)) - 2b_{0,0,2,0,0,0,0,0,0,1}^r(x_2y_2(x_5^2 + y_5^2) - \\
& 2b_{0,0,2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2) - 2b_{0,0,2,0,0,1,0,0,0,0}^r(x_2y_2(x_3^2 + y_3^2) - 2b_{0,0,2,1,0,0,0,0,0,0}^r(x_2y_2(x_2^2 + \\
& y_2^2) + 2b_{0,1,0,0,-2,0,0,0,0,0}^r(x_3y_3(x_1^2 + y_1^2) + 2b_{0,1,0,0,0,0,-2,0,0,0}^r(x_4y_4(x_1^2 + y_1^2) - \\
& 2b_{0,1,0,0,0,0,0,0,2,0}^r(x_5y_5(x_1^2 + y_1^2) - 2b_{0,1,2,0,0,0,0,0,0,0}^r(x_2y_2(x_1^2 + y_1^2) + b_{1,0,-1,0,-2,0,0,0,0,0}^r(x_1(2x_2x_3y_3 + \\
& x_2^2y_2 - y_2y_3^2) + y_1(-x_2x_3^2 + x_2y_3^2 + 2x_3y_2y_3)) + b_{1,0,-1,0,0,0,-2,0,0,0}^r(x_1(2x_2x_4y_4 + x_4^2y_2 -
\end{aligned}$$

$$\begin{aligned}
& y_2 y_4^2) + y_1(-x_2 x_4^2 + x_2 y_4^2 + 2x_4 y_2 y_4)) - b_{1,0,-1,0,0,0,0,2,0}^r(x_1(2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2) + \\
& y_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5)) + b_{1,0,0,0,-1,0,-1,0,-1,0}^r(x_1(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5) + y_1(- \\
& x_3 x_4 x_5 + x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4)) - b_{1,0,0,0,-1,0,1,0,1,0}^r(x_1(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + \\
& y_3 y_4 y_5) + y_1(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4)) - b_{1,0,0,0,1,0,-1,0,1,0}^r(x_1(x_3 x_4 y_5 - x_3 x_5 y_4 + \\
& x_4 x_5 y_3 + y_3 y_4 y_5) + y_1(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)) - b_{1,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1 y_2 + \\
& x_2 y_1) - b_{1,0,1,0,0,0,0,1,0,0,0}^r(x_4^2 + y_4^2)(x_1 y_2 + x_2 y_1) - b_{1,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1 y_2 + x_2 y_1) - \\
& b_{1,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1 y_2 + x_2 y_1) - b_{1,1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1 y_2 + x_2 y_1) - \\
& 2b_{2,0,0,0,0,0,0,0,0,1}^r x_1 y_1(x_5^2 + y_5^2) - 2b_{2,0,0,0,0,0,0,1,0,0}^r x_1 y_1(x_4^2 + y_4^2) - 2b_{2,0,0,0,0,1,0,0,0,0}^r x_1 y_1(x_3^2 + \\
& y_3^2) - 2b_{2,0,0,1,0,0,0,0,0,0}^r x_1 y_1(x_2^2 + y_2^2) - 2b_{2,1,0,0,0,0,0,0,0,0}^r x_1 y_1(x_1^2 + y_1^2) + b_{3,0,-1,0,0,0,0,0,0,0}^r(x_1^3 y_2 - \\
& 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 + x_2 y_1^3)
\end{aligned}$$

$$\begin{aligned}
H_{YX}^{(4)} = & b_{-1,0,-1,0,0,0,0,0,-2,0}^r(x_1(2x_2 x_5 y_5 + x_5^2 y_2 - y_2 y_5^2) + y_1(x_2 x_5^2 - x_2 y_5^2 - 2x_5 y_2 y_5)) - \\
& b_{-1,0,-1,0,0,0,2,0,0,0}^r(x_1(2x_2 x_4 y_4 - x_4^2 y_2 + y_2 y_4^2) + y_1(-x_2 x_4^2 + x_2 y_4^2 - 2x_4 y_2 y_4)) - \\
& b_{-1,0,-1,0,2,0,0,0,0,0}^r(x_1(2x_2 x_3 y_3 - x_3^2 y_2 + y_2 y_3^2) + y_1(-x_2 x_3^2 + x_2 y_3^2 - 2x_3 y_2 y_3)) + \\
& b_{-1,0,-3,0,0,0,0,0,0,0}^r(x_1(3x_2^2 y_2 - y_2^3) + y_1(x_2^3 - 3x_2 y_2^2)) - b_{-1,0,0,0,-1,0,-1,0,1,0}^r(x_1(x_3 x_4 y_5 - x_3 x_5 y_4 - \\
& x_4 x_5 y_3 - y_3 y_4 y_5) + y_1(-x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{-1,0,0,0,1,0,1,0,-1,0}^r(x_1(x_3 x_4 y_5 - \\
& x_3 x_5 y_4 - x_4 x_5 y_3 - y_3 y_4 y_5) + y_1(x_3 x_4 x_5 + x_3 y_4 y_5 + x_4 y_3 y_5 - x_5 y_3 y_4)) + \\
& b_{-1,0,1,0,-2,0,0,0,0,0}^r(x_1(2x_2 x_3 y_3 - x_3^2 y_2 + y_2 y_3^2) + y_1(x_2 x_3^2 - x_2 y_3^2 + 2x_3 y_2 y_3)) + \\
& b_{-1,0,1,0,0,0,-2,0,0,0}^r(x_1(2x_2 x_4 y_4 - x_4^2 y_2 + y_2 y_4^2) + y_1(x_2 x_4^2 - x_2 y_4^2 + 2x_4 y_2 y_4)) - \\
& b_{-1,0,1,0,0,0,0,0,2,0}^r(x_1(2x_2 x_5 y_5 + x_5^2 y_2 - y_2 y_5^2) + y_1(-x_2 x_5^2 + x_2 y_5^2 + 2x_5 y_2 y_5)) - \\
& b_{-1,0,3,0,0,0,0,0,0,0}^r(x_1(3x_2^2 y_2 - y_2^3) + y_1(-x_2^3 + 3x_2 y_2^2)) + 2b_{-2,0,-2,0,0,0,0,0,0,0}^r(x_1 x_2 - y_1 y_2)(x_1 y_2 + \\
& x_2 y_1) + 2b_{-2,0,0,0,0,0,0,0,-2,0}^r(x_1 x_5 - y_1 y_5)(x_1 y_5 + x_5 y_1) - 2b_{-2,0,0,0,0,0,2,0,0,0}^r(x_1 x_4 + y_1 y_4)(x_1 y_4 - x_4 y_1) - \\
& 2b_{-2,0,0,0,2,0,0,0,0,0}^r(x_1 x_3 + y_1 y_3)(x_1 y_3 - x_3 y_1) + b_{-3,0,-1,0,0,0,0,0,0,0}^r(x_1^3 y_2 + 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - \\
& x_2 y_1^3) + 4b_{-4,0,0,0,0,0,0,0,0,0}^r x_1 y_1(x_1 - y_1)(x_1 + y_1) - b_{0,0,-1,0,-1,0,-1,0,1,0}^r(x_2(x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 - \\
& y_3 y_4 y_5) + y_2(-x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)) + b_{0,0,-1,0,1,0,1,0,-1,0}^r(x_2(x_3 x_4 y_5 - x_3 x_5 y_4 - \\
& x_4 x_5 y_3 - y_3 y_4 y_5) + y_2(x_3 x_4 x_5 + x_3 y_4 y_5 + x_4 y_3 y_5 - x_5 y_3 y_4)) + 2b_{0,0,-2,0,0,0,0,0,-2,0}^r(x_2 x_5 - \\
& y_2 y_5)(x_2 y_5 + x_5 y_2) - 2b_{0,0,-2,0,0,0,2,0,0,0}^r(x_2 x_4 + y_2 y_4)(x_2 y_4 - x_4 y_2) - 2b_{0,0,-2,0,2,0,0,0,0,0}^r(x_2 x_3 + \\
& y_2 y_3)(x_2 y_3 - x_3 y_2) + 4b_{0,0,-4,0,0,0,0,0,0,0}^r x_2 y_2(x_2 - y_2)(x_2 + y_2) + 2b_{0,0,0,0,-2,0,0,0,0,1}^r x_3 y_3(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,0,-2,0,0,1,0,0}^r x_3 y_3(x_4^2 + y_4^2) + 2b_{0,0,0,0,-2,1,0,0,0,0}^r x_3 y_3(x_3^2 + y_3^2) + 2b_{0,0,0,0,0,-2,0,0,1}^r x_4 y_4(x_5^2 + \\
& y_5^2) + 2b_{0,0,0,0,0,0,-2,1,0,0}^r x_4 y_4(x_4^2 + y_4^2) + 4b_{0,0,0,0,0,0,0,0,-4,0}^r x_5 y_5(x_5 - y_5)(x_5 + y_5) - \\
& 2b_{0,0,0,0,0,0,0,0,2,1}^r x_5 y_5(x_5^2 + y_5^2) - 2b_{0,0,0,0,0,0,0,1,2,0}^r x_5 y_5(x_4^2 + y_4^2) + 2b_{0,0,0,0,0,0,2,0,-2,0}^r(x_4 x_5 + \\
& y_4 y_5)(x_4 y_5 - x_5 y_4) - 4b_{0,0,0,0,0,0,4,0,0,0}^r x_4 y_4(x_4 - y_4)(x_4 + y_4) + 2b_{0,0,0,0,0,0,1,-2,0,0,0}^r x_4 y_4(x_3^2 + y_3^2) - \\
& 2b_{0,0,0,0,0,1,0,0,2,0}^r x_5 y_5(x_3^2 + y_3^2) + 2b_{0,0,0,0,2,0,0,0,-2,0}^r(x_3 x_5 + y_3 y_5)(x_3 y_5 - x_5 y_3) - \\
& 2b_{0,0,0,0,2,0,2,0,0,0}^r(x_3 x_4 - y_3 y_4)(x_3 y_4 + x_4 y_3) - 4b_{0,0,0,0,4,0,0,0,0,0}^r x_3 y_3(x_3 - y_3)(x_3 + y_3) + \\
& 2b_{0,0,0,1,-2,0,0,0,0,0}^r x_3 y_3(x_2^2 + y_2^2) + 2b_{0,0,0,1,0,0,-2,0,0,0}^r x_4 y_4(x_2^2 + y_2^2) - 2b_{0,0,0,1,0,0,0,0,2,0}^r x_5 y_5(x_2^2 + \\
& y_2^2) + b_{0,0,1,0,-1,0,-1,0,-1,0}^r(x_2(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5) + y_2(-x_3 x_4 x_5 + x_3 y_4 y_5 + \\
& x_4 y_3 y_5 + x_5 y_3 y_4)) - b_{0,0,1,0,-1,0,1,0,1,0}^r(x_2(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5) + y_2(x_3 x_4 x_5 - \\
& x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4)) - b_{0,0,1,0,1,0,-1,0,1,0}^r(x_2(x_3 x_4 y_5 - x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5) + \\
& y_2(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)) - 2b_{0,0,2,0,0,0,0,0,0,1}^r x_2 y_2(x_5^2 + y_5^2) - \\
& 2b_{0,0,2,0,0,0,0,1,0,0}^r x_2 y_2(x_4^2 + y_4^2) - 2b_{0,0,2,0,0,1,0,0,0,0}^r x_2 y_2(x_3^2 + y_3^2) - 2b_{0,0,2,1,0,0,0,0,0,0}^r x_2 y_2(x_2^2 + \\
& y_2^2) + 2b_{0,1,0,0,-2,0,0,0,0,0}^r x_3 y_3(x_1^2 + y_1^2) + 2b_{0,1,0,0,0,0,-2,0,0,0}^r x_4 y_4(x_1^2 + y_1^2) - \\
& 2b_{0,1,0,0,0,0,0,0,2,0}^r x_5 y_5(x_1^2 + y_1^2) - 2b_{0,1,2,0,0,0,0,0,0,0}^r x_2 y_2(x_1^2 + y_1^2) + b_{1,0,-1,0,-2,0,0,0,0,0}^r(x_1(2x_2 x_3 y_3 +
\end{aligned}$$

$$\begin{aligned}
& x_3^2 y_2 - y_2 y_3^2) + y_1(-x_2 x_3^2 + x_2 y_3^2 + 2x_3 y_2 y_3) + b_{1,0,-1,0,0,0,-2,0,0,0}^r(x_1(2x_2 x_4 y_4 + x_4^2 y_2 - \\
& y_2 y_4^2) + y_1(-x_2 x_4^2 + x_2 y_4^2 + 2x_4 y_2 y_4)) - b_{1,0,-1,0,0,0,0,0,2,0}^r(x_1(2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2) + \\
& y_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5)) + b_{1,0,0,0,-1,0,-1,0,-1,0}^r(x_1(x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 - y_3 y_4 y_5) + y_1(- \\
& x_3 x_4 x_5 + x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4)) - b_{1,0,0,0,-1,0,1,0,1,0}^r(x_1(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + \\
& y_3 y_4 y_5) + y_1(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4)) - b_{1,0,0,0,1,0,-1,0,1,0}^r(x_1(x_3 x_4 y_5 - x_3 x_5 y_4 + \\
& x_4 x_5 y_3 + y_3 y_4 y_5) + y_1(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4)) - b_{1,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1 y_2 + \\
& x_2 y_1) - b_{1,0,1,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1 y_2 + x_2 y_1) - b_{1,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1 y_2 + x_2 y_1) - \\
& b_{1,0,1,1,0,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1 y_2 + x_2 y_1) - b_{1,1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1 y_2 + x_2 y_1) - \\
& 2b_{2,0,0,0,0,0,0,0,0,1}^r x_1 y_1 (x_5^2 + y_5^2) - 2b_{2,0,0,0,0,0,0,1,0,0}^r x_1 y_1 (x_4^2 + y_4^2) - 2b_{2,0,0,0,0,1,0,0,0,0}^r x_1 y_1 (x_3^2 + \\
& y_3^2) - 2b_{2,0,0,1,0,0,0,0,0,0}^r x_1 y_1 (x_2^2 + y_2^2) - 2b_{2,1,0,0,0,0,0,0,0,0}^r x_1 y_1 (x_1^2 + y_1^2) + b_{3,0,-1,0,0,0,0,0,0,0}^r(x_1^3 y_2 - \\
& 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 + x_2 y_1^3)
\end{aligned}$$

$$\begin{aligned}
H_{YY}^{(4)} = & a_{0,0,0,0,0,0,0,0,0,2}^r(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,0,0,0,0,2,0,0}^r(x_4^2 + y_4^2)^2 + \\
& a_{0,0,0,0,0,0,0,2,0,2,0}^r(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + \\
& y_5^2) + a_{0,0,0,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2) + a_{0,0,0,0,0,2,0,0,0,0}^r(x_3^2 + y_3^2)^2 + a_{0,0,0,0,2,0,-2,0,0,0}^r(x_3(x_4 - \\
& y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,0,0,0,2,0}^r(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + \\
& y_3(x_5 - y_5)) + a_{0,0,0,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2) + a_{0,0,0,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& a_{0,0,0,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2) + a_{0,0,0,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2 + a_{0,0,1,0,-1,0,1,0,-1,0}^r(x_2(x_3 x_4 x_5 + \\
& x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4) + y_2(x_3 x_4 y_5 - x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5)) + \\
& a_{0,0,1,0,1,0,-1,0,-1,0}^r(x_2(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + y_2(x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + \\
& y_3 y_4 y_5)) + a_{0,0,1,0,1,0,1,0,1,0}^r(x_2(x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 - x_3 x_5 y_4 - \\
& x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{0,0,2,0,0,0,0,0,-2,0}^r(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,2,0,0,0}^r(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,2,0,0,0,0,0}^r(x_2(x_3 - y_3) + y_2(- \\
& x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,1,0,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,0,0,1,0,0}^r(x_1^2 + \\
& y_1^2)(x_4^2 + y_4^2) + a_{0,1,0,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2) + a_{0,1,0,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2) + \\
& a_{0,2,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2 + a_{1,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1 x_2 + y_1 y_2) + a_{1,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1 x_2 + y_1 y_2) + a_{1,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1 x_2 + y_1 y_2) + a_{1,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1 x_2 + \\
& y_1 y_2) + a_{1,0,0,0,-1,0,1,0,-1,0}^r(x_1(x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4) + y_1(x_3 x_4 y_5 - x_3 x_5 y_4 + \\
& x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,0,1,0,-1,0,-1,0}^r(x_1(x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + y_1(x_3 x_4 y_5 + \\
& x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,0,1,0,1,0,1,0}^r(x_1(x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_1(- \\
& x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,1,0,0,0,0,0,0,-2,0}^r(x_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5) + \\
& y_1(2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2)) + a_{1,0,1,0,0,0,2,0,0,0}^r(x_1(x_2 x_4^2 - x_2 y_4^2 - 2x_4 y_2 y_4) + y_1(-2x_2 x_4 y_4 - \\
& x_4^2 y_2 + y_2 y_4^2)) + a_{1,0,1,0,2,0,0,0,0,0}^r(x_1(x_2 x_3^2 - x_2 y_3^2 - 2x_3 y_2 y_3) + y_1(-2x_2 x_3 y_3 - x_3^2 y_2 + \\
& y_2 y_3^2)) + a_{1,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1 x_2 + y_1 y_2) + a_{2,0,-2,0,0,0,0,0,0,0}^r(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + \\
& y_2) + y_1(-x_2 + y_2)) + a_{2,0,0,0,0,0,0,0,-2,0}^r(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + \\
& a_{2,0,0,0,0,0,2,0,0,0}^r(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,2,0,0,0,0,0}^r(x_1(x_3 - y_3) + y_1(- \\
& x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) - b_{-1,0,-1,0,0,0,0,0,-2,0}^r(x_1(x_2 x_5^2 - x_2 y_5^2 - 2x_5 y_2 y_5) + y_1(-2x_2 x_5 y_5 - \\
& x_5^2 y_2 + y_2 y_5^2)) - b_{-1,0,-1,0,0,0,2,0,0,0}^r(x_1(x_2 x_4^2 - x_2 y_4^2 + 2x_4 y_2 y_4) + y_1(2x_2 x_4 y_4 - x_4^2 y_2 + \\
& y_2 y_4^2)) - b_{-1,0,-1,0,2,0,0,0,0,0}^r(x_1(x_2 x_3^2 - x_2 y_3^2 + 2x_3 y_2 y_3) + y_1(2x_2 x_3 y_3 - x_3^2 y_2 + y_2 y_3^2)) - \\
& b_{-1,0,-3,0,0,0,0,0,0,0}^r(x_1(x_2^3 - 3x_2 y_2^2) + y_1(-3x_2^2 y_2 + y_2^3)) - b_{-1,0,0,0,-1,0,-1,0,1,0}^r(x_1(x_3 x_4 x_5 + x_3 y_4 y_5 + \\
& x_4 y_3 y_5 - x_5 y_3 y_4) + y_1(x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 - y_3 y_4 y_5)) - b_{-1,0,0,0,1,0,1,0,-1,0}^r(x_1(x_3 x_4 x_5 + \\
& x_3 y_4 y_5 + x_4 y_3 y_5 - x_5 y_3 y_4) + y_1(-x_3 x_4 y_5 + x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5)) -
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,1,0,-2,0,0,0,0}^r(x_1(x_2x_3^2 - x_2y_3^2 + 2x_3y_2y_3) + y_1(-2x_2x_3y_3 + x_3^2y_2 - y_2y_3^2)) - \\
& b_{-1,0,1,0,0,0,-2,0,0}^r(x_1(x_2x_4^2 - x_2y_4^2 + 2x_4y_2y_4) + y_1(-2x_2x_4y_4 + x_4^2y_2 - y_2y_4^2)) - \\
& b_{-1,0,1,0,0,0,0,0,2,0}^r(x_1(x_2x_5^2 - x_2y_5^2 - 2x_5y_2y_5) + y_1(2x_2x_5y_5 + x_5^2y_2 - y_2y_5^2)) - \\
& b_{-1,0,3,0,0,0,0,0,0,0}^r(x_1(x_2^3 - 3x_2y_2^2) + y_1(3x_2^2y_2 - y_2^3)) - b_{-2,0,-2,0,0,0,0,0,0}^r(x_1(x_2 - y_2) + y_1(-x_2 - \\
& y_2))(x_1(x_2 + y_2) + y_1(x_2 - y_2)) - b_{-2,0,0,0,0,0,0,-2,0}^r(x_1(x_5 - y_5) + y_1(-x_5 - y_5))(x_1(x_5 + y_5) + y_1(x_5 - y_5)) - \\
& b_{-2,0,0,0,0,2,0,0,0}^r(x_1(x_4 - y_4) + y_1(x_4 + y_4))(x_1(x_4 + y_4) + y_1(-x_4 + y_4)) - b_{-2,0,0,0,2,0,0,0,0}^r(x_1(x_3 - y_3) + \\
& y_1(x_3 + y_3))(x_1(x_3 + y_3) + y_1(-x_3 + y_3)) - b_{-3,0,-1,0,0,0,0,0,0}^r(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) - \\
& b_{-4,0,0,0,0,0,0,0,0,0}^r(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) - b_{0,0,-1,0,-1,0,-1,0,1,0}^r(x_2(x_3x_4x_5 + x_3y_4y_5 + \\
& x_4y_3y_5 - x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5)) - b_{0,0,-1,0,1,0,1,0,-1,0}^r(x_2(x_3x_4x_5 + \\
& x_3y_4y_5 + x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) - b_{0,0,-2,0,0,0,0,0,-2,0}^r(x_2(x_5 - \\
& y_5) + y_2(-x_5 - y_5))(x_2(x_5 + y_5) + y_2(x_5 - y_5)) - b_{0,0,-2,0,0,0,2,0,0,0}^r(x_2(x_4 - y_4) + y_2(x_4 + y_4))(x_2(x_4 + y_4) + y_2(- \\
& x_4 - y_4)) - b_{0,0,-2,0,2,0,0,0,0,0}^r(x_2(x_3 - y_3) + y_2(x_3 + y_3))(x_2(x_3 + y_3) + y_2(-x_3 + y_3)) - b_{0,0,-4,0,0,0,0,0,0,0}^r(x_2^2 - \\
& 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - b_{0,0,0,0,-2,0,0,0,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) - b_{0,0,0,0,-2,0,0,1,0,0}^r(x_3 - \\
& y_3)(x_3 + y_3)(x_4^2 + y_4^2) - b_{0,0,0,0,-2,1,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) - b_{0,0,0,0,0,0,-2,0,0,1}^r(x_4 - y_4)(x_4 + \\
& y_4)(x_5^2 + y_5^2) - b_{0,0,0,0,0,0,-2,1,0,0}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) - b_{0,0,0,0,0,0,0,-4,0}^r(x_5^2 - 2x_5y_5 - \\
& y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) - b_{0,0,0,0,0,0,0,0,2,1}^r(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) - b_{0,0,0,0,0,0,0,1,2,0}^r(x_4^2 + \\
& y_4^2)(x_5 - y_5)(x_5 + y_5) - b_{0,0,0,0,0,0,2,0,-2,0}^r(x_4(x_5 - y_5) + y_4(x_5 + y_5))(x_4(x_5 + y_5) + y_4(-x_5 + y_5)) - \\
& b_{0,0,0,0,0,0,4,0,0,0}^r(x_4^2 - 2x_4y_4 - y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) - b_{0,0,0,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) - \\
& b_{0,0,0,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) - b_{0,0,0,0,2,0,0,0,-2,0}^r(x_3(x_5 - y_5) + y_3(x_5 + y_5))(x_3(x_5 + y_5) + y_3(- \\
& x_5 + y_5)) - b_{0,0,0,0,2,0,2,0,0,0}^r(x_3(x_4 - y_4) + y_3(-x_4 - y_4))(x_3(x_4 + y_4) + y_3(x_4 - y_4)) - b_{0,0,0,0,4,0,0,0,0,0}^r(x_3^2 - \\
& 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) - b_{0,0,0,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3) - \\
& b_{0,0,0,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4) - b_{0,0,0,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) - \\
& b_{0,0,1,0,-1,0,-1,0,-1,0}^r(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 - \\
& y_3y_4y_5)) - b_{0,0,1,0,-1,0,1,0,1,0}^r(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 - y_3y_4y_5)) - b_{0,0,1,0,1,0,-1,0,1,0}^r(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(-x_3x_4y_5 + \\
& x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5)) - b_{0,0,2,0,0,0,0,0,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) - b_{0,0,2,0,0,0,0,1,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_4^2 + y_4^2) - b_{0,0,2,0,0,1,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2) - b_{0,0,2,1,0,0,0,0,0,0}^r(x_2 - y_2)(x_2 + \\
& y_2)(x_2^2 + y_2^2) - b_{0,1,0,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3) - b_{0,1,0,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_4 - \\
& y_4)(x_4 + y_4) - b_{0,1,0,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_5 - y_5)(x_5 + y_5) - b_{0,1,2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2) - \\
& b_{1,0,-1,0,-2,0,0,0,0,0}^r(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(2x_2x_3y_3 + x_3^2y_2 - y_2y_3^2)) - \\
& b_{1,0,-1,0,0,0,-2,0,0,0}^r(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(2x_2x_4y_4 + x_4^2y_2 - y_2y_4^2)) - \\
& b_{1,0,-1,0,0,0,0,0,2,0}^r(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(-2x_2x_5y_5 + x_5^2y_2 - y_2y_5^2)) - \\
& b_{1,0,0,0,-1,0,-1,0,-1,0}^r(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 + x_4x_5y_3 - \\
& y_3y_4y_5)) - b_{1,0,0,0,-1,0,1,0,1,0}^r(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(-x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 - y_3y_4y_5)) - b_{1,0,0,0,1,0,-1,0,1,0}^r(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(-x_3x_4y_5 + \\
& x_3x_5y_4 - x_4x_5y_3 - y_3y_4y_5)) - b_{1,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) - b_{1,0,1,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2 - y_1y_2) - b_{1,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2 - y_1y_2) - b_{1,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2 - \\
& y_1y_2) - b_{1,1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2 - y_1y_2) - b_{2,0,0,0,0,0,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_5^2 + y_5^2) - \\
& b_{2,0,0,0,0,0,0,1,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2) - b_{2,0,0,0,0,1,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2) - \\
& b_{2,0,0,1,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2) - b_{2,1,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2) - \\
& b_{3,0,-1,0,0,0,0,0,0,0}^r(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2)
\end{aligned}$$



## 5.6 Order: 5

Number of fitting parameters:  $H_{XX}$ : 266 (92 from  $H_{++}$ , 174 from  $H_{+-}$ ),  $H_{XY}$ : 174 (all from  $H_{+-}$ ),  $H_{YY}$ : 174 (all from  $H_{+-}$ ).

### Polar e-coordinates:

$$\begin{aligned}
H_{XX}^{(5)} = & a_{0,0,0,0,1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(-\phi_3 + \phi_4 + 3\phi_5) + a_{0,0,0,0,1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 - \phi_4 + \\
& 3\phi_5) + a_{0,0,0,0,1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 - 3\phi_4 + \phi_5) + a_{0,0,0,0,1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \\
& \phi_4 - \phi_5) + a_{0,0,0,0,1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,0,0,1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + \\
& 3\phi_4 + \phi_5) + a_{0,0,0,0,1,1,1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,0,0,3,0,-1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(- \\
& 3\phi_3 + \phi_4 + \phi_5) + a_{0,0,0,0,3,0,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(3\phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,0,1,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + a_{0,0,1,0,-2,0,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 - \\
& 2\phi_3) + a_{0,0,1,0,-2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_3) + a_{0,0,1,0,-2,1,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 - 2\phi_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,0,0,0,-2,1,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,0,0,0,0,-4,0}^r \rho_2 \rho_5^4 \cos(\phi_2 - 4\phi_5) + a_{0,0,1,0,0,0,0,2,1}^r \rho_2 \rho_5^4 \cos(\phi_2 + 2\phi_5) + \\
& a_{0,0,1,0,0,0,0,1,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,1,0,0,0,2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_4 - \\
& 2\phi_5) + a_{0,0,1,0,0,0,4,0,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 + 4\phi_4) + a_{0,0,1,0,0,1,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,0,0,1,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,1,0,2,0,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_3 - \\
& 2\phi_5) + a_{0,0,1,0,2,0,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 + 2\phi_3 + 2\phi_4) + a_{0,0,1,0,4,0,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 + \\
& 4\phi_3) + a_{0,0,1,1,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(\phi_2 - 2\phi_3) + a_{0,0,1,1,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,1,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,0,2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_2 + \phi_3 + \phi_4 + \\
& \phi_5) + a_{0,0,2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 - \phi_4 + \phi_5) + a_{0,0,3,0,0,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \cos(3\phi_2) + \\
& a_{0,0,3,0,0,0,0,1,0,0}^r \rho_2^3 \rho_4^2 \cos(3\phi_2) + a_{0,0,3,0,0,1,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(3\phi_2) + \\
& a_{0,0,3,1,0,0,0,0,0,0}^r \rho_2^5 \cos(3\phi_2) + a_{0,1,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + \\
& a_{0,1,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(\phi_2 - 2\phi_3) + a_{0,1,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,1,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,1,3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(3\phi_2) + \\
& a_{1,0,-1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,-1,0,1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,-2,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(-\phi_1 + 2\phi_2 + 2\phi_5) + a_{1,0,-2,0,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - \\
& 2\phi_2 + 2\phi_4) + a_{1,0,-2,0,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_2 + 2\phi_3) + \\
& a_{1,0,-4,0,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1 - 4\phi_2) + a_{1,0,0,0,-2,0,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 - 2\phi_3) + \\
& a_{1,0,0,0,-2,0,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 - 2\phi_3) + a_{1,0,0,0,-2,1,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 - 2\phi_3) + \\
& a_{1,0,0,0,0,0,-2,0,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 - 2\phi_4) + a_{1,0,0,0,0,0,-2,1,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,0,0,0,0,0,0,-4,0}^r \rho_1 \rho_5^4 \cos(\phi_1 - 4\phi_5) + a_{1,0,0,0,0,0,0,2,1}^r \rho_1 \rho_5^4 \cos(\phi_1 + 2\phi_5) + \\
& a_{1,0,0,0,0,0,1,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,0,0,0,2,0,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_4 - \\
& 2\phi_5) + a_{1,0,0,0,0,4,0,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 + 4\phi_4) + a_{1,0,0,0,0,1,-2,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,0,0,0,0,1,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,0,0,2,0,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_3 - \\
& 2\phi_5) + a_{1,0,0,0,2,0,2,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 + 2\phi_3 + 2\phi_4) + a_{1,0,0,0,4,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 + \\
& 4\phi_3) + a_{1,0,0,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_3) + a_{1,0,0,1,0,0,-2,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - \\
& 2\phi_4) + a_{1,0,0,1,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(- \\
& \phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{1,0,1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{1,0,2,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_2) + a_{1,0,2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(\phi_1 + 2\phi_2) + \\
& a_{1,0,2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(\phi_1 + 2\phi_2) + a_{1,0,2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(\phi_1 + 2\phi_2) + \\
& a_{1,1,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 - 2\phi_3) + a_{1,1,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 + 2\phi_5) + a_{1,1,2,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 + 2\phi_2) + \\
& a_{2,0,-1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(-2\phi_1 + \phi_2 + 2\phi_3) + a_{2,0,-1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(-2\phi_1 + \\
& \phi_2 + 2\phi_4) + a_{2,0,-1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 - \phi_2 + 2\phi_5) + \\
& a_{2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{2,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 + \phi_2) + a_{2,0,1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 + \phi_2) + \\
& a_{2,0,1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 + \phi_2) + a_{2,0,1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(2\phi_1 + \phi_2) + \\
& a_{2,1,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(2\phi_1 + \phi_2) + a_{3,0,0,0,0,0,0,0,1}^r \rho_1^3 \rho_5^2 \cos(3\phi_1) + \\
& a_{3,0,0,0,0,0,0,1,0,0}^r \rho_1^3 \rho_4^2 \cos(3\phi_1) + a_{3,0,0,0,0,1,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(3\phi_1) + \\
& a_{3,0,0,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(3\phi_1) + a_{3,1,0,0,0,0,0,0,0,0}^r \rho_1^5 \cos(3\phi_1) + \\
& a_{4,0,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(4\phi_1 - \phi_2) + b_{-1,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \phi_3 + \\
& \phi_4 + \phi_5) + b_{-1,0,-1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,-2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(\phi_1 + 2\phi_2 + 2\phi_3) + b_{-1,0,-2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_4^2 \cos(\phi_1 + \\
& 2\phi_2 + 2\phi_4) + b_{-1,0,-2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_2 - 2\phi_5) + \\
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_3 + 2\phi_5) + b_{-1,0,0,0,-2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \\
& 2\phi_3 - 2\phi_4) + b_{-1,0,0,0,0,0,-2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_4 + 2\phi_5) + \\
& b_{-1,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \cos(\phi_1) + b_{-1,0,0,0,0,0,0,1,0,1}^r \rho_1^4 \rho_4^2 \rho_5^2 \cos(\phi_1) + \\
& b_{-1,0,0,0,0,0,2,0,0}^r \rho_1^4 \rho_4^2 \cos(\phi_1) + b_{-1,0,0,0,0,0,2,2,0}^r \rho_1^4 \rho_4^2 \rho_5^2 \cos(-\phi_1 + 2\phi_4 + 2\phi_5) + \\
& b_{-1,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(\phi_1) + b_{-1,0,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(\phi_1) + \\
& b_{-1,0,0,0,2,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(\phi_1) + b_{-1,0,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(\phi_1 - 2\phi_3 + 2\phi_4) + \\
& b_{-1,0,0,0,2,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(-\phi_1 + 2\phi_3 + 2\phi_5) + b_{-1,0,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(\phi_1) + \\
& b_{-1,0,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(\phi_1) + b_{-1,0,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(\phi_1) + \\
& b_{-1,0,0,2,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(\phi_1) + b_{-1,0,1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 + \phi_3 - \phi_4 + \\
& \phi_5) + b_{-1,0,1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(\phi_1 - 2\phi_2 + 2\phi_5) + b_{-1,0,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(-\phi_1 + \\
& 2\phi_2 + 2\phi_4) + b_{-1,0,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(-\phi_1 + 2\phi_2 + 2\phi_3) + \\
& b_{-1,1,0,0,0,0,0,0,0,1}^r \rho_1^3 \rho_5^2 \cos(\phi_1) + b_{-1,1,0,0,0,0,0,1,0,0}^r \rho_1^3 \rho_4^2 \cos(\phi_1) + \\
& b_{-1,1,0,0,0,1,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(\phi_1) + b_{-1,1,0,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1) + \\
& b_{-1,2,0,0,0,0,0,0,0,0}^r \rho_1^5 \cos(\phi_1) + b_{-2,0,-1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{-2,0,-1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 + \phi_2 + 2\phi_4) + b_{-2,0,-1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 + \\
& \phi_2 - 2\phi_5) + b_{-2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{-2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{-2,0,1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 - \phi_2) + b_{-2,0,1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 - \phi_2) + \\
& b_{-2,0,1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 - \phi_2) + b_{-2,0,1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(2\phi_1 - \phi_2) + \\
& b_{-2,1,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(2\phi_1 - \phi_2) + b_{-3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(3\phi_1 + 2\phi_3) +
\end{aligned}$$

$$\begin{aligned}
& b_{-3,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \cos(3\phi_1 + 2\phi_4) + b_{-3,0,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \cos(3\phi_1 - 2\phi_5) + \\
& b_{-3,0,2,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(3\phi_1 - 2\phi_2) + b_{0,0,-1,0,-2,0,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_3 + 2\phi_5) + \\
& b_{0,0,-1,0,-2,0,2,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 + 2\phi_3 - 2\phi_4) + b_{0,0,-1,0,0,0,-2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + \\
& 2\phi_4 + 2\phi_5) + b_{0,0,-1,0,0,0,0,0,2}^r \rho_2 \rho_5^4 \cos(\phi_2) + b_{0,0,-1,0,0,0,0,1,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2) + \\
& b_{0,0,-1,0,0,0,0,2,0}^r \rho_2 \rho_4^4 \cos(\phi_2) + b_{0,0,-1,0,0,0,2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(-\phi_2 + 2\phi_4 + 2\phi_5) + \\
& b_{0,0,-1,0,0,1,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2) + b_{0,0,-1,0,0,1,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2) + \\
& b_{0,0,-1,0,0,2,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2) + b_{0,0,-1,0,2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_3 + 2\phi_4) + \\
& b_{0,0,-1,0,2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_2 + 2\phi_3 + 2\phi_5) + b_{0,0,-1,1,0,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \cos(\phi_2) + \\
& b_{0,0,-1,1,0,0,0,1,0,0}^r \rho_2^3 \rho_4^2 \cos(\phi_2) + b_{0,0,-1,1,0,1,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(\phi_2) + \\
& b_{0,0,-1,2,0,0,0,0,0,0}^r \rho_2^5 \cos(\phi_2) + b_{0,0,-2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{0,0,-2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 - \phi_3 + \phi_4 - \phi_5) + b_{0,0,-3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(3\phi_2 + \\
& 2\phi_3) + b_{0,0,-3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \cos(3\phi_2 + 2\phi_4) + b_{0,0,-3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \cos(3\phi_2 - 2\phi_5) + \\
& b_{0,0,0,0,-1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \phi_4 + 3\phi_5) + b_{0,0,0,0,-1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \phi_4 - \\
& 3\phi_5) + b_{0,0,0,0,-1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + 3\phi_4 - \phi_5) + b_{0,0,0,0,-1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 - \\
& \phi_4 + \phi_5) + b_{0,0,0,0,-1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 - \phi_4 + \phi_5) + b_{0,0,0,0,-1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(- \\
& \phi_3 + 3\phi_4 + \phi_5) + b_{0,0,0,0,-1,1,1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(\phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,0,0,-3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(3\phi_3 + \phi_4 - \phi_5) + b_{0,0,0,0,1,0,-1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(-\phi_3 + \phi_4 + \\
& \phi_5) + b_{0,0,0,0,1,0,-1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(-\phi_3 + \phi_4 + \phi_5) + b_{0,0,0,0,1,0,1,0,1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \\
& \phi_4 + \phi_5) + b_{0,0,0,0,1,0,1,1,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + \phi_4 + \phi_5) + b_{0,0,0,0,1,1,-1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(- \\
& \phi_3 + \phi_4 + \phi_5) + b_{0,0,0,0,1,1,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,0,0,3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(3\phi_3 - \phi_4 + \phi_5) + b_{0,0,0,0,1,-1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 - \\
& \phi_4 + \phi_5) + b_{0,0,0,0,1,1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,0,0,1,1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 + \phi_5) + b_{0,0,1,0,-2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(-\phi_2 + \\
& 2\phi_3 + 2\phi_4) + b_{0,0,1,0,-2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 - 2\phi_3 + 2\phi_5) + \\
& b_{0,0,1,0,-4,0,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 - 4\phi_3) + b_{0,0,1,0,0,0,-2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 - 2\phi_4 + 2\phi_5) + \\
& b_{0,0,1,0,0,0,-4,0,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 - 4\phi_4) + b_{0,0,1,0,0,0,0,0,-2,1}^r \rho_2 \rho_5^4 \cos(\phi_2 - 2\phi_5) + \\
& b_{0,0,1,0,0,0,0,0,4,0}^r \rho_2 \rho_5^4 \cos(\phi_2 + 4\phi_5) + b_{0,0,1,0,0,0,0,1,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 - 2\phi_5) + \\
& b_{0,0,1,0,0,0,2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_4) + b_{0,0,1,0,0,0,2,1,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 + 2\phi_4) + \\
& b_{0,0,1,0,0,1,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 - 2\phi_5) + b_{0,0,1,0,0,1,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 + 2\phi_4) + \\
& b_{0,0,1,0,2,0,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_3) + b_{0,0,1,0,2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 + 2\phi_3) + \\
& b_{0,0,1,0,2,1,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 + 2\phi_3) + b_{0,0,1,1,0,0,0,0,-2,0}^r \rho_2^3 \rho_5^2 \cos(\phi_2 - 2\phi_5) + \\
& b_{0,0,1,1,0,0,2,0,0,0}^r \rho_2^3 \rho_4^2 \cos(\phi_2 + 2\phi_4) + b_{0,0,1,1,2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(\phi_2 + 2\phi_3) + \\
& b_{0,0,2,0,-1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,2,0,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 + \phi_4 - \phi_5) + b_{0,0,3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(3\phi_2 - \\
& 2\phi_3) + b_{0,0,3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \cos(3\phi_2 - 2\phi_4) + b_{0,0,3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \cos(3\phi_2 + 2\phi_5) + \\
& b_{0,0,5,0,0,0,0,0,0,0}^r \rho_2^5 \cos(5\phi_2) + b_{0,1,-1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \cos(\phi_2) + \\
& b_{0,1,-1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(\phi_2) + b_{0,1,-1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(\phi_2) + \\
& b_{0,1,-1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(\phi_2) + b_{0,1,0,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 - \phi_4 + \phi_5) + \\
& b_{0,1,0,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_3 + \phi_4 + \phi_5) + b_{0,1,0,0,1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \\
& \phi_4 + \phi_5) + b_{0,1,1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(\phi_2 - 2\phi_5) + b_{0,1,1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(\phi_2 + \\
& 2\phi_4) + b_{0,1,1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(\phi_2 + 2\phi_3) + b_{0,2,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(\phi_2) +
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,-1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{1,0,-1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,-1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,-2,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 - 2\phi_2) + b_{1,0,-2,0,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - 2\phi_2) + \\
& b_{1,0,-2,0,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_2) + b_{1,0,-2,1,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1 - 2\phi_2) + \\
& b_{1,0,0,0,-2,0,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(-\phi_1 + 2\phi_3 + 2\phi_4) + b_{1,0,0,0,-2,0,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 - \\
& 2\phi_3 + 2\phi_5) + b_{1,0,0,0,-4,0,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 - 4\phi_3) + b_{1,0,0,0,0,-2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 - \\
& 2\phi_4 + 2\phi_5) + b_{1,0,0,0,0,0,-4,0,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 - 4\phi_4) + b_{1,0,0,0,0,0,0,-2,1}^r \rho_1 \rho_5^4 \cos(\phi_1 - 2\phi_5) + \\
& b_{1,0,0,0,0,0,0,4,0}^r \rho_1 \rho_5^4 \cos(\phi_1 + 4\phi_5) + b_{1,0,0,0,0,0,0,1,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 - 2\phi_5) + \\
& b_{1,0,0,0,0,0,2,0,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_4) + b_{1,0,0,0,0,0,2,1,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 + 2\phi_4) + \\
& b_{1,0,0,0,0,1,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 - 2\phi_5) + b_{1,0,0,0,0,1,2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 + 2\phi_4) + \\
& b_{1,0,0,0,2,0,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_3) + b_{1,0,0,0,2,0,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 + 2\phi_3) + \\
& b_{1,0,0,0,2,1,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 + 2\phi_3) + b_{1,0,0,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 - 2\phi_5) + \\
& b_{1,0,0,1,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 + 2\phi_4) + b_{1,0,0,1,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 + 2\phi_3) + \\
& b_{1,0,1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{1,0,1,0,1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{1,0,2,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 + 2\phi_2 - 2\phi_3) + b_{1,0,2,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 + \\
& 2\phi_2 - 2\phi_4) + b_{1,0,2,0,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_2 + 2\phi_5) + \\
& b_{1,0,4,0,0,0,0,0,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 + 4\phi_2) + b_{1,1,-2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 - 2\phi_2) + \\
& b_{1,1,0,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_5^2 \cos(\phi_1 - 2\phi_5) + b_{1,1,0,0,0,0,2,0,0,0}^r \rho_1^3 \rho_4^2 \cos(\phi_1 + 2\phi_4) + \\
& b_{1,1,0,0,2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(\phi_1 + 2\phi_3) + b_{2,0,-1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(-2\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{2,0,-1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 - \phi_2 + 2\phi_4) + b_{2,0,-1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 - \\
& \phi_2 + 2\phi_3) + b_{2,0,-3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(2\phi_1 - 3\phi_2) + \\
& b_{2,0,0,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{2,0,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{2,0,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 + \phi_2 - 2\phi_3) + b_{2,0,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 + \\
& \phi_2 - 2\phi_4) + b_{2,0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{2,0,3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1 + 3\phi_2) + b_{3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(3\phi_1 - 2\phi_3) + \\
& b_{3,0,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \cos(3\phi_1 - 2\phi_4) + b_{3,0,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \cos(3\phi_1 + 2\phi_5) + \\
& b_{3,0,2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(3\phi_1 + 2\phi_2) + b_{4,0,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(4\phi_1 + \phi_2) + \\
& b_{5,0,0,0,0,0,0,0,0,0}^r \rho_1^5 \cos(5\phi_1)
\end{aligned}$$

$$\begin{aligned}
H_{XY}^{(5)} = & b_{-1,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,-1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,-2,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \sin(\phi_1 + 2\phi_2 + 2\phi_3) + b_{-1,0,-2,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \sin(\phi_1 + \\
& 2\phi_2 + 2\phi_4) + b_{-1,0,-2,0,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \sin(\phi_1 + 2\phi_2 - 2\phi_5) + \\
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \sin(\phi_1 + 2\phi_3 + 2\phi_5) + b_{-1,0,0,0,-2,0,2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(\phi_1 + \\
& 2\phi_3 - 2\phi_4) + b_{-1,0,0,0,0,0,-2,0,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \sin(\phi_1 + 2\phi_4 + 2\phi_5) + \\
& b_{-1,0,0,0,0,0,0,0,2}^r \rho_1 \rho_5^4 \sin(\phi_1) + b_{-1,0,0,0,0,0,0,1,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \sin(\phi_1) + \\
& b_{-1,0,0,0,0,0,0,2,0,0}^r \rho_1 \rho_4^4 \sin(\phi_1) - b_{-1,0,0,0,0,0,2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \sin(-\phi_1 + 2\phi_4 + 2\phi_5) + \\
& b_{-1,0,0,0,0,1,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \sin(\phi_1) + b_{-1,0,0,0,0,1,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(\phi_1) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,0,2,0,0,0,0}^r \rho_1 \rho_3^4 \sin(\phi_1) + b_{-1,0,0,0,2,0,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(\phi_1 - 2\phi_3 + 2\phi_4) - \\
& b_{-1,0,0,0,2,0,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \sin(-\phi_1 + 2\phi_3 + 2\phi_5) + b_{-1,0,0,1,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \sin(\phi_1) + \\
& b_{-1,0,0,1,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \sin(\phi_1) + b_{-1,0,0,1,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \sin(\phi_1) + \\
& b_{-1,0,0,2,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \sin(\phi_1) + b_{-1,0,1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_2 + \phi_3 - \phi_4 + \\
& \phi_5) + b_{-1,0,1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,2,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \sin(\phi_1 - 2\phi_2 + 2\phi_5) - b_{-1,0,2,0,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \sin(-\phi_1 + \\
& 2\phi_2 + 2\phi_4) - b_{-1,0,2,0,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \sin(-\phi_1 + 2\phi_2 + 2\phi_3) + \\
& b_{-1,1,0,0,0,0,0,0,0,1}^r \rho_1^3 \rho_5^2 \sin(\phi_1) + b_{-1,1,0,0,0,0,0,1,0,0}^r \rho_1^3 \rho_4^2 \sin(\phi_1) + \\
& b_{-1,1,0,0,0,1,0,0,0,0}^r \rho_1^3 \rho_3^2 \sin(\phi_1) + b_{-1,1,0,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(\phi_1) + \\
& b_{-1,2,0,0,0,0,0,0,0,0}^r \rho_1^5 \sin(\phi_1) + b_{-2,0,-1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(2\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{-2,0,-1,0,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(2\phi_1 + \phi_2 + 2\phi_4) + b_{-2,0,-1,0,0,0,0,2,0,0}^r \rho_1^2 \rho_2 \rho_5^2 \sin(2\phi_1 + \\
& \phi_2 - 2\phi_5) + b_{-2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{-2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{-2,0,1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \sin(2\phi_1 - \phi_2) + b_{-2,0,1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(2\phi_1 - \phi_2) + \\
& b_{-2,0,1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(2\phi_1 - \phi_2) + b_{-2,0,1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \sin(2\phi_1 - \phi_2) + \\
& b_{-2,1,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \sin(2\phi_1 - \phi_2) + b_{-3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \sin(3\phi_1 + 2\phi_3) + \\
& b_{-3,0,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \sin(3\phi_1 + 2\phi_4) + b_{-3,0,0,0,0,0,0,2,0,0}^r \rho_1^3 \rho_5^2 \sin(3\phi_1 - 2\phi_5) + \\
& b_{-3,0,2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(3\phi_1 - 2\phi_2) + b_{0,0,-1,0,-2,0,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2 + 2\phi_3 + \\
& 2\phi_5) + b_{0,0,-1,0,-2,0,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2 + 2\phi_3 - 2\phi_4) + \\
& b_{0,0,-1,0,0,0,-2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2 + 2\phi_4 + 2\phi_5) + b_{0,0,-1,0,0,0,0,0,2}^r \rho_2 \rho_5^4 \sin(\phi_2) + \\
& b_{0,0,-1,0,0,0,0,1,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2) + b_{0,0,-1,0,0,0,0,2,0,0}^r \rho_2 \rho_4^4 \sin(\phi_2) - \\
& b_{0,0,-1,0,0,0,2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \sin(-\phi_2 + 2\phi_4 + 2\phi_5) + b_{0,0,-1,0,0,1,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2) + \\
& b_{0,0,-1,0,0,1,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2) + b_{0,0,-1,0,0,2,0,0,0,0}^r \rho_2 \rho_3^4 \sin(\phi_2) + \\
& b_{0,0,-1,0,2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2 - 2\phi_3 + 2\phi_4) - b_{0,0,-1,0,2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \sin(-\phi_2 + \\
& 2\phi_3 + 2\phi_5) + b_{0,0,-1,1,0,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \sin(\phi_2) + b_{0,0,-1,1,0,0,0,1,0,0}^r \rho_2^3 \rho_4^2 \sin(\phi_2) + \\
& b_{0,0,-1,1,0,1,0,0,0,0}^r \rho_2^3 \rho_3^2 \sin(\phi_2) + b_{0,0,-1,2,0,0,0,0,0,0}^r \rho_2^5 \sin(\phi_2) + \\
& b_{0,0,-2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{0,0,-2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \sin(3\phi_2 + 2\phi_3) + b_{0,0,-3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \sin(3\phi_2 + 2\phi_4) + \\
& b_{0,0,-3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \sin(3\phi_2 - 2\phi_5) + b_{0,0,0,0,-1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \sin(\phi_3 + \phi_4 + 3\phi_5) + \\
& b_{0,0,0,0,-1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \sin(\phi_3 + \phi_4 - 3\phi_5) + b_{0,0,0,0,-1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(\phi_3 + 3\phi_4 - \\
& \phi_5) + b_{0,0,0,0,-1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \sin(\phi_3 - \phi_4 + \phi_5) + b_{0,0,0,0,-1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(\phi_3 - \\
& \phi_4 + \phi_5) - b_{0,0,0,0,-1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(-\phi_3 + 3\phi_4 + \phi_5) + \\
& b_{0,0,0,0,-1,1,1,0,-1,0}^r \rho_3 \rho_4 \rho_5^3 \sin(\phi_3 - \phi_4 + \phi_5) + b_{0,0,0,0,-3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \sin(3\phi_3 + \phi_4 - \\
& \phi_5) + b_{0,0,0,0,1,0,-1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \sin(-\phi_3 + \phi_4 + \phi_5) + b_{0,0,0,0,1,0,-1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(-\phi_3 + \\
& \phi_4 + \phi_5) - b_{0,0,0,0,1,0,1,0,1,1}^r \rho_3 \rho_4 \rho_5^3 \sin(\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,0,0,1,0,1,1,1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(\phi_3 + \phi_4 + \phi_5) + b_{0,0,0,0,1,1,-1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \sin(-\phi_3 + \phi_4 + \\
& \phi_5) - b_{0,0,0,0,1,1,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \sin(\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,0,3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \sin(3\phi_3 - \\
& \phi_4 + \phi_5) + b_{0,0,0,1,-1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_3 - \phi_4 + \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,1,1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,1,1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_3 + \\
& \phi_4 + \phi_5) + b_{0,0,1,0,-2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(-\phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{0,0,1,0,-2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2 - 2\phi_3 + 2\phi_5) - b_{0,0,1,0,-4,0,0,0,0,0}^r \rho_2 \rho_3^4 \sin(\phi_2 - 4\phi_3) - \\
& b_{0,0,1,0,0,0,-2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2 - 2\phi_4 + 2\phi_5) - b_{0,0,1,0,0,0,-4,0,0,0}^r \rho_2 \rho_4^4 \sin(\phi_2 - 4\phi_4) - \\
& b_{0,0,1,0,0,0,0,0,-2,1}^r \rho_2 \rho_5^4 \sin(\phi_2 - 2\phi_5) - b_{0,0,1,0,0,0,0,0,4,0}^r \rho_2 \rho_5^4 \sin(\phi_2 + 4\phi_5) - \\
& b_{0,0,1,0,0,0,0,1,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2 - 2\phi_5) - b_{0,0,1,0,0,0,2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2 + 2\phi_4) - \\
& b_{0,0,1,0,0,0,2,1,0,0}^r \rho_2 \rho_4^4 \sin(\phi_2 + 2\phi_4) - b_{0,0,1,0,0,1,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2 - 2\phi_5) - \\
& b_{0,0,1,0,0,1,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2 + 2\phi_4) - b_{0,0,1,0,2,0,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2 + 2\phi_3) - \\
& b_{0,0,1,0,2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2 + 2\phi_3) - b_{0,0,1,0,2,1,0,0,0,0}^r \rho_2 \rho_3^4 \sin(\phi_2 + 2\phi_3) - \\
& b_{0,0,1,1,0,0,0,0,-2,0}^r \rho_2^3 \rho_5^2 \sin(\phi_2 - 2\phi_5) - b_{0,0,1,1,0,0,2,0,0,0}^r \rho_2^3 \rho_4^2 \sin(\phi_2 + 2\phi_4) - \\
& b_{0,0,1,1,2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \sin(\phi_2 + 2\phi_3) - b_{0,0,2,0,-1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 - \phi_3 - \phi_4 + \\
& \phi_5) - b_{0,0,2,0,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \sin(3\phi_2 - 2\phi_3) - b_{0,0,3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \sin(3\phi_2 - 2\phi_4) - \\
& b_{0,0,3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \sin(3\phi_2 + 2\phi_5) - b_{0,0,5,0,0,0,0,0,0,0}^r \rho_2^5 \sin(5\phi_2) + \\
& b_{0,1,-1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \sin(\phi_2) + b_{0,1,-1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(\phi_2) + \\
& b_{0,1,-1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(\phi_2) + b_{0,1,-1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \sin(\phi_2) + \\
& b_{0,1,0,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(\phi_3 - \phi_4 + \phi_5) + b_{0,1,0,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(- \\
& \phi_3 + \phi_4 + \phi_5) - b_{0,1,0,0,1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,1,1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \sin(\phi_2 - 2\phi_5) - b_{0,1,1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(\phi_2 + 2\phi_4) - \\
& b_{0,1,1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(\phi_2 + 2\phi_3) + b_{0,2,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \sin(\phi_2) + \\
& b_{1,0,-1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{1,0,-1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,-1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,-2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(\phi_1 - 2\phi_2) - b_{1,0,-2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(\phi_1 - 2\phi_2) - \\
& b_{1,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(\phi_1 - 2\phi_2) - b_{1,0,-2,1,0,0,0,0,0,0}^r \rho_1^4 \sin(\phi_1 - 2\phi_2) + \\
& b_{1,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(-\phi_1 + 2\phi_3 + 2\phi_4) - b_{1,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(\phi_1 - \\
& 2\phi_3 + 2\phi_5) - b_{1,0,0,0,-4,0,0,0,0,0}^r \rho_1^4 \sin(\phi_1 - 4\phi_3) - b_{1,0,0,0,0,0,-2,0,2,0}^r \rho_1^4 \rho_4^2 \rho_5^2 \sin(\phi_1 - \\
& 2\phi_4 + 2\phi_5) - b_{1,0,0,0,0,0,-4,0,0,0}^r \rho_1^4 \sin(\phi_1 - 4\phi_4) - b_{1,0,0,0,0,0,0,0,-2,1}^r \rho_1^4 \rho_5^4 \sin(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,0,0,0,0,0,4,0}^r \rho_1^4 \rho_5^4 \sin(\phi_1 + 4\phi_5) - b_{1,0,0,0,0,0,0,1,-2,0}^r \rho_1^4 \rho_4^2 \rho_5^2 \sin(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(\phi_1 + 2\phi_4) - b_{1,0,0,0,0,0,2,1,0,0}^r \rho_1^4 \sin(\phi_1 + 2\phi_4) - \\
& b_{1,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(\phi_1 - 2\phi_5) - b_{1,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(\phi_1 + 2\phi_4) - \\
& b_{1,0,0,0,2,0,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \sin(\phi_1 + 2\phi_3) - b_{1,0,0,0,2,0,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(\phi_1 + 2\phi_3) - \\
& b_{1,0,0,0,2,1,0,0,0,0}^r \rho_1^4 \sin(\phi_1 + 2\phi_3) - b_{1,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(\phi_1 + 2\phi_4) - b_{1,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(\phi_1 + 2\phi_3) - \\
& b_{1,0,1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(\phi_1 + 2\phi_2 - 2\phi_3) - b_{1,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(\phi_1 + \\
& 2\phi_2 - 2\phi_4) - b_{1,0,2,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(\phi_1 + 2\phi_2 + 2\phi_5) - \\
& b_{1,0,4,0,0,0,0,0,0,0}^r \rho_1^4 \sin(\phi_1 + 4\phi_2) - b_{1,1,-2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(\phi_1 - 2\phi_2) - \\
& b_{1,1,0,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_5^2 \sin(\phi_1 - 2\phi_5) - b_{1,1,0,0,0,0,2,0,0,0}^r \rho_1^3 \rho_4^2 \sin(\phi_1 + 2\phi_4) - \\
& b_{1,1,0,0,2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \sin(\phi_1 + 2\phi_3) + b_{2,0,-1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \sin(-2\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{2,0,-1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(2\phi_1 - \phi_2 + 2\phi_4) - b_{2,0,-1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 -
\end{aligned}$$

$$\begin{aligned}
& \phi_2 + 2\phi_3) - b_{2,0,-3,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \sin(2\phi_1 - 3\phi_2) - \\
& b_{2,0,0,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{2,0,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{2,0,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 + \phi_2 - 2\phi_3) - b_{2,0,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(2\phi_1 + \\
& \phi_2 - 2\phi_4) - b_{2,0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \sin(2\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{2,0,3,0,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \sin(2\phi_1 + 3\phi_2) - b_{3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \sin(3\phi_1 - 2\phi_3) - \\
& b_{3,0,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \sin(3\phi_1 - 2\phi_4) - b_{3,0,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \sin(3\phi_1 + 2\phi_5) - \\
& b_{3,0,2,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(3\phi_1 + 2\phi_2) - b_{4,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \sin(4\phi_1 + \phi_2) - \\
& b_{5,0,0,0,0,0,0,0,0}^r \rho_1^5 \sin(5\phi_1)
\end{aligned}$$

$$\begin{aligned}
H_{YX}^{(5)} = & b_{-1,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,-1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,-2,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \sin(\phi_1 + 2\phi_2 + 2\phi_3) + b_{-1,0,-2,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \sin(\phi_1 + \\
& 2\phi_2 + 2\phi_4) + b_{-1,0,-2,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \sin(\phi_1 + 2\phi_2 - 2\phi_5) + \\
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \sin(\phi_1 + 2\phi_3 + 2\phi_5) + b_{-1,0,0,0,-2,0,2,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(\phi_1 + \\
& 2\phi_3 - 2\phi_4) + b_{-1,0,0,0,0,0,-2,0,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \sin(\phi_1 + 2\phi_4 + 2\phi_5) + \\
& b_{-1,0,0,0,0,0,0,0,2}^r \rho_1 \rho_5^4 \sin(\phi_1) + b_{-1,0,0,0,0,0,0,1,0}^r \rho_1 \rho_4^2 \rho_5^2 \sin(\phi_1) + \\
& b_{-1,0,0,0,0,0,2,0,0}^r \rho_1 \rho_4^4 \sin(\phi_1) - b_{-1,0,0,0,0,2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \sin(-\phi_1 + 2\phi_4 + 2\phi_5) + \\
& b_{-1,0,0,0,0,1,0,0,0}^r \rho_1 \rho_3^2 \rho_5^2 \sin(\phi_1) + b_{-1,0,0,0,0,1,0,1,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(\phi_1) + \\
& b_{-1,0,0,0,0,2,0,0,0}^r \rho_1 \rho_3^4 \sin(\phi_1) + b_{-1,0,0,0,2,0,-2,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(\phi_1 - 2\phi_3 + 2\phi_4) - \\
& b_{-1,0,0,0,2,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \sin(-\phi_1 + 2\phi_3 + 2\phi_5) + b_{-1,0,0,1,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_5^2 \sin(\phi_1) + \\
& b_{-1,0,0,1,0,0,0,1,0}^r \rho_1 \rho_2^2 \rho_4^2 \sin(\phi_1) + b_{-1,0,0,1,0,1,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \sin(\phi_1) + \\
& b_{-1,0,0,2,0,0,0,0,0}^r \rho_1 \rho_2^4 \sin(\phi_1) + b_{-1,0,1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_2 + \phi_3 - \phi_4 + \\
& \phi_5) + b_{-1,0,1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,2,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \sin(\phi_1 - 2\phi_2 + 2\phi_5) - b_{-1,0,2,0,0,0,2,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \sin(-\phi_1 + \\
& 2\phi_2 + 2\phi_4) - b_{-1,0,2,0,2,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \sin(-\phi_1 + 2\phi_2 + 2\phi_3) + \\
& b_{-1,1,0,0,0,0,0,0,0}^r \rho_1^3 \rho_5^2 \sin(\phi_1) + b_{-1,1,0,0,0,0,0,1,0}^r \rho_1^3 \rho_4^2 \sin(\phi_1) + \\
& b_{-1,1,0,0,0,1,0,0,0}^r \rho_1^3 \rho_3^2 \sin(\phi_1) + b_{-1,1,0,1,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(\phi_1) + \\
& b_{-1,2,0,0,0,0,0,0,0}^r \rho_1^5 \sin(\phi_1) + b_{-2,0,-1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(2\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{-2,0,-1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(2\phi_1 + \phi_2 + 2\phi_4) + b_{-2,0,-1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \sin(2\phi_1 + \\
& \phi_2 - 2\phi_5) + b_{-2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{-2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{-2,0,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_5^2 \sin(2\phi_1 - \phi_2) + b_{-2,0,1,0,0,0,0,1,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(2\phi_1 - \phi_2) + \\
& b_{-2,0,1,0,0,1,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(2\phi_1 - \phi_2) + b_{-2,0,1,1,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \sin(2\phi_1 - \phi_2) + \\
& b_{-2,1,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \sin(2\phi_1 - \phi_2) + b_{-3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \sin(3\phi_1 + 2\phi_3) + \\
& b_{-3,0,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \sin(3\phi_1 + 2\phi_4) + b_{-3,0,0,0,0,0,2,0,0}^r \rho_1^3 \rho_5^2 \sin(3\phi_1 - 2\phi_5) + \\
& b_{-3,0,2,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(3\phi_1 - 2\phi_2) + b_{0,0,-1,0,-2,0,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2 + 2\phi_3 + \\
& 2\phi_5) + b_{0,0,-1,0,-2,0,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2 + 2\phi_3 - 2\phi_4) + \\
& b_{0,0,-1,0,0,0,-2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2 + 2\phi_4 + 2\phi_5) + b_{0,0,-1,0,0,0,0,0,2}^r \rho_2 \rho_5^4 \sin(\phi_2) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,-1,0,0,0,0,1,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2) + b_{0,0,-1,0,0,0,0,2,0,0}^r \rho_2 \rho_4^4 \sin(\phi_2) - \\
& b_{0,0,-1,0,0,0,2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \sin(-\phi_2 + 2\phi_4 + 2\phi_5) + b_{0,0,-1,0,0,1,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2) + \\
& b_{0,0,-1,0,0,1,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2) + b_{0,0,-1,0,0,2,0,0,0,0}^r \rho_2 \rho_3^4 \sin(\phi_2) + \\
& b_{0,0,-1,0,2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2 - 2\phi_3 + 2\phi_4) - b_{0,0,-1,0,2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \sin(-\phi_2 + \\
& 2\phi_3 + 2\phi_5) + b_{0,0,-1,1,0,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \sin(\phi_2) + b_{0,0,-1,1,0,0,0,1,0,0}^r \rho_2^3 \rho_4^2 \sin(\phi_2) + \\
& b_{0,0,-1,1,0,1,0,0,0,0}^r \rho_2^3 \rho_3^2 \sin(\phi_2) + b_{0,0,-1,2,0,0,0,0,0,0}^r \rho_2^5 \sin(\phi_2) + \\
& b_{0,0,-2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{0,0,-2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \sin(3\phi_2 + 2\phi_3) + b_{0,0,-3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \sin(3\phi_2 + 2\phi_4) + \\
& b_{0,0,-3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \sin(3\phi_2 - 2\phi_5) + b_{0,0,0,0,-1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \sin(\phi_3 + \phi_4 + 3\phi_5) + \\
& b_{0,0,0,0,-1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \sin(\phi_3 + \phi_4 - 3\phi_5) + b_{0,0,0,0,-1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(\phi_3 + 3\phi_4 - \\
& \phi_5) + b_{0,0,0,0,-1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \sin(\phi_3 - \phi_4 + \phi_5) + b_{0,0,0,0,-1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(\phi_3 - \\
& \phi_4 + \phi_5) - b_{0,0,0,0,-1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(-\phi_3 + 3\phi_4 + \phi_5) + \\
& b_{0,0,0,0,-1,1,1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \sin(\phi_3 - \phi_4 + \phi_5) + b_{0,0,0,0,-3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \sin(3\phi_3 + \phi_4 - \\
& \phi_5) + b_{0,0,0,0,1,0,-1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \sin(-\phi_3 + \phi_4 + \phi_5) + b_{0,0,0,0,1,0,-1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(-\phi_3 + \\
& \phi_4 + \phi_5) - b_{0,0,0,0,1,0,1,0,1,1}^r \rho_3 \rho_4 \rho_5^3 \sin(\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,0,0,1,0,1,1,1,0}^r \rho_3 \rho_4^3 \rho_5 \sin(\phi_3 + \phi_4 + \phi_5) + b_{0,0,0,0,1,1,-1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \sin(-\phi_3 + \phi_4 + \\
& \phi_5) - b_{0,0,0,0,1,1,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \sin(\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,0,3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \sin(3\phi_3 - \\
& \phi_4 + \phi_5) + b_{0,0,0,1,-1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,0,1,1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,1,1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_3 + \\
& \phi_4 + \phi_5) + b_{0,0,1,0,-2,0,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(-\phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{0,0,1,0,-2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2 - 2\phi_3 + 2\phi_5) - b_{0,0,1,0,-4,0,0,0,0,0}^r \rho_2 \rho_3^4 \sin(\phi_2 - 4\phi_3) - \\
& b_{0,0,1,0,0,0,-2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2 - 2\phi_4 + 2\phi_5) - b_{0,0,1,0,0,0,-4,0,0,0}^r \rho_2 \rho_4^4 \sin(\phi_2 - 4\phi_4) - \\
& b_{0,0,1,0,0,0,0,0,-2,1}^r \rho_2 \rho_5^4 \sin(\phi_2 - 2\phi_5) - b_{0,0,1,0,0,0,0,0,4,0}^r \rho_2 \rho_5^4 \sin(\phi_2 + 4\phi_5) - \\
& b_{0,0,1,0,0,0,0,1,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2 - 2\phi_5) - b_{0,0,1,0,0,0,2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_2 + 2\phi_4) - \\
& b_{0,0,1,0,0,0,2,1,0,0}^r \rho_2 \rho_4^4 \sin(\phi_2 + 2\phi_4) - b_{0,0,1,0,0,1,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2 - 2\phi_5) - \\
& b_{0,0,1,0,0,1,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2 + 2\phi_4) - b_{0,0,1,0,2,0,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_2 + 2\phi_3) - \\
& b_{0,0,1,0,2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_2 + 2\phi_3) - b_{0,0,1,0,2,1,0,0,0,0}^r \rho_2 \rho_3^4 \sin(\phi_2 + 2\phi_3) - \\
& b_{0,0,1,1,0,0,0,0,-2,0}^r \rho_2^3 \rho_5^2 \sin(\phi_2 - 2\phi_5) - b_{0,0,1,1,0,0,2,0,0,0}^r \rho_2^3 \rho_4^2 \sin(\phi_2 + 2\phi_4) - \\
& b_{0,0,1,1,2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \sin(\phi_2 + 2\phi_3) - b_{0,0,2,0,-1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 - \phi_3 - \phi_4 + \\
& \phi_5) - b_{0,0,2,0,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \sin(3\phi_2 - 2\phi_3) - b_{0,0,3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \sin(3\phi_2 - 2\phi_4) - \\
& b_{0,0,3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \sin(3\phi_2 + 2\phi_5) - b_{0,0,5,0,0,0,0,0,0,0}^r \rho_2^5 \sin(5\phi_2) + \\
& b_{0,1,-1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \sin(\phi_2) + b_{0,1,-1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(\phi_2) + \\
& b_{0,1,-1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(\phi_2) + b_{0,1,-1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \sin(\phi_2) + \\
& b_{0,1,0,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(\phi_3 - \phi_4 + \phi_5) + b_{0,1,0,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(- \\
& \phi_3 + \phi_4 + \phi_5) - b_{0,1,0,0,1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,1,1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \sin(\phi_2 - 2\phi_5) - b_{0,1,1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(\phi_2 + 2\phi_4) - \\
& b_{0,1,1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(\phi_2 + 2\phi_3) + b_{0,2,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \sin(\phi_2) + \\
& b_{1,0,-1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{1,0,-1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) -
\end{aligned}$$



$$\begin{aligned}
& b_{1,0,-1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,-2,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \sin(\phi_1 - 2\phi_2) - b_{1,0,-2,0,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \sin(\phi_1 - 2\phi_2) - \\
& b_{1,0,-2,0,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \sin(\phi_1 - 2\phi_2) - b_{1,0,-2,1,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \sin(\phi_1 - 2\phi_2) + \\
& b_{1,0,0,0,-2,0,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(-\phi_1 + 2\phi_3 + 2\phi_4) - b_{1,0,0,0,-2,0,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \sin(\phi_1 - \\
& 2\phi_3 + 2\phi_5) - b_{1,0,0,0,-4,0,0,0,0,0}^r \rho_1 \rho_3^4 \sin(\phi_1 - 4\phi_3) - b_{1,0,0,0,0,0,-2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \sin(\phi_1 - \\
& 2\phi_4 + 2\phi_5) - b_{1,0,0,0,0,0,-4,0,0,0}^r \rho_1 \rho_4^4 \sin(\phi_1 - 4\phi_4) - b_{1,0,0,0,0,0,0,0,-2,1}^r \rho_1 \rho_5^4 \sin(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,0,0,0,0,0,4,0}^r \rho_1 \rho_5^4 \sin(\phi_1 + 4\phi_5) - b_{1,0,0,0,0,0,0,1,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \sin(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,0,0,0,2,0,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \sin(\phi_1 + 2\phi_4) - b_{1,0,0,0,0,0,2,1,0,0}^r \rho_1 \rho_4^4 \sin(\phi_1 + 2\phi_4) - \\
& b_{1,0,0,0,0,1,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \sin(\phi_1 - 2\phi_5) - b_{1,0,0,0,0,1,2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(\phi_1 + 2\phi_4) - \\
& b_{1,0,0,0,2,0,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \sin(\phi_1 + 2\phi_3) - b_{1,0,0,0,2,0,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \sin(\phi_1 + 2\phi_3) - \\
& b_{1,0,0,0,2,1,0,0,0,0}^r \rho_1 \rho_3^4 \sin(\phi_1 + 2\phi_3) - b_{1,0,0,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \sin(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,1,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \sin(\phi_1 + 2\phi_4) - b_{1,0,0,1,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \sin(\phi_1 + 2\phi_3) - \\
& b_{1,0,1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,1,0,1,0,1,0,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,2,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \sin(\phi_1 + 2\phi_2 - 2\phi_3) - b_{1,0,2,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \sin(\phi_1 + \\
& 2\phi_2 - 2\phi_4) - b_{1,0,2,0,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \sin(\phi_1 + 2\phi_2 + 2\phi_5) - \\
& b_{1,0,4,0,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \sin(\phi_1 + 4\phi_2) - b_{1,1,-2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(\phi_1 - 2\phi_2) - \\
& b_{1,1,0,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_5^2 \sin(\phi_1 - 2\phi_5) - b_{1,1,0,0,0,0,2,0,0,0}^r \rho_1^3 \rho_4^2 \sin(\phi_1 + 2\phi_4) - \\
& b_{1,1,0,0,2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \sin(\phi_1 + 2\phi_3) + b_{2,0,-1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \sin(-2\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{2,0,-1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(2\phi_1 - \phi_2 + 2\phi_4) - b_{2,0,-1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(2\phi_1 - \\
& \phi_2 + 2\phi_3) - b_{2,0,-3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \sin(2\phi_1 - 3\phi_2) - \\
& b_{2,0,0,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{2,0,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{2,0,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \sin(2\phi_1 + \phi_2 - 2\phi_3) - b_{2,0,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \sin(2\phi_1 + \\
& \phi_2 - 2\phi_4) - b_{2,0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \sin(2\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{2,0,3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \sin(2\phi_1 + 3\phi_2) - b_{3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \sin(3\phi_1 - 2\phi_3) - \\
& b_{3,0,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \sin(3\phi_1 - 2\phi_4) - b_{3,0,0,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \sin(3\phi_1 + 2\phi_5) - \\
& b_{3,0,2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(3\phi_1 + 2\phi_2) - b_{4,0,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \sin(4\phi_1 + \phi_2) - \\
& b_{5,0,0,0,0,0,0,0,0,0}^r \rho_1^5 \sin(5\phi_1)
\end{aligned}$$

$$\begin{aligned}
H_{YY}^{(5)} = & a_{0,0,0,0,1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(-\phi_3 + \phi_4 + 3\phi_5) + a_{0,0,0,0,1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 - \phi_4 + \\
& 3\phi_5) + a_{0,0,0,0,1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 - 3\phi_4 + \phi_5) + a_{0,0,0,0,1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \\
& \phi_4 - \phi_5) + a_{0,0,0,0,1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,0,0,1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + 3\phi_4 + \phi_5) + a_{0,0,0,0,1,1,1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \\
& \phi_5) + a_{0,0,0,0,3,0,-1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(-3\phi_3 + \phi_4 + \phi_5) + a_{0,0,0,0,3,0,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(3\phi_3 + \\
& \phi_4 + \phi_5) + a_{0,0,0,1,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,0,-2,0,0,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 - 2\phi_3) + a_{0,0,1,0,-2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_3) + \\
& a_{0,0,1,0,-2,1,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 - 2\phi_3) + a_{0,0,1,0,0,0,-2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,0,1,0,0,0,-2,1,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,0,0,0,0,0,-4,0}^r \rho_2 \rho_5^4 \cos(\phi_2 - 4\phi_5) + \\
& a_{0,0,1,0,0,0,0,0,2,1}^r \rho_2 \rho_5^4 \cos(\phi_2 + 2\phi_5) + a_{0,0,1,0,0,0,0,1,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + \\
& a_{0,0,1,0,0,0,2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_4 - 2\phi_5) + a_{0,0,1,0,0,0,4,0,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 + 4\phi_4) + \\
& a_{0,0,1,0,0,1,-2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,0,0,1,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{0,0,1,0,2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_3 - 2\phi_5) + a_{0,0,1,0,2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(\phi_2 + \\
& 2\phi_3 + 2\phi_4) + a_{0,0,1,0,4,0,0,0,0,0}^r \rho_2^3 \rho_3^4 \cos(\phi_2 + 4\phi_3) + a_{0,0,1,1,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(\phi_2 - 2\phi_3) + \\
& a_{0,0,1,1,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \cos(\phi_2 - 2\phi_4) + a_{0,0,1,1,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \cos(\phi_2 + 2\phi_5) + \\
& a_{0,0,2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 - \phi_4 + \phi_5) + a_{0,0,3,0,0,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \cos(3\phi_2) + \\
& a_{0,0,3,0,0,0,0,1,0,0}^r \rho_2^3 \rho_4^2 \cos(3\phi_2) + a_{0,0,3,0,0,1,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(3\phi_2) + \\
& a_{0,0,3,1,0,0,0,0,0,0}^r \rho_2^5 \cos(3\phi_2) + a_{0,1,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 - \phi_5) + \\
& a_{0,1,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(\phi_2 - 2\phi_3) + a_{0,1,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(\phi_2 - 2\phi_4) + \\
& a_{0,1,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(\phi_2 + 2\phi_5) + a_{0,1,3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(3\phi_2) + \\
& a_{1,0,-1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,-1,0,1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,-2,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(-\phi_1 + 2\phi_2 + 2\phi_5) + a_{1,0,-2,0,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - \\
& 2\phi_2 + 2\phi_4) + a_{1,0,-2,0,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_2 + 2\phi_3) + \\
& a_{1,0,-4,0,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1 - 4\phi_2) + a_{1,0,0,0,-2,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 - 2\phi_3) + \\
& a_{1,0,0,0,-2,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - 2\phi_3) + a_{1,0,0,0,-2,1,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 - 2\phi_3) + \\
& a_{1,0,0,0,0,0,-2,0,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 - 2\phi_4) + a_{1,0,0,0,0,0,-2,1,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,0,0,0,0,0,0,0,-4,0}^r \rho_1 \rho_5^4 \cos(\phi_1 - 4\phi_5) + a_{1,0,0,0,0,0,0,2,1}^r \rho_1 \rho_5^4 \cos(\phi_1 + 2\phi_5) + \\
& a_{1,0,0,0,0,0,0,1,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,0,0,0,0,2,0,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_4 - \\
& 2\phi_5) + a_{1,0,0,0,0,0,4,0,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 + 4\phi_4) + a_{1,0,0,0,0,1,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,0,0,0,0,1,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,0,0,2,0,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_3 - \\
& 2\phi_5) + a_{1,0,0,0,2,0,2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 + 2\phi_3 + 2\phi_4) + a_{1,0,0,0,4,0,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 + \\
& 4\phi_3) + a_{1,0,0,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_3) + a_{1,0,0,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - \\
& 2\phi_4) + a_{1,0,0,1,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,0,1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(- \\
& \phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{1,0,1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,2,0,0,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_2) + a_{1,0,2,0,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 + 2\phi_2) + \\
& a_{1,0,2,0,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 + 2\phi_2) + a_{1,0,2,1,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1 + 2\phi_2) + \\
& a_{1,1,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(\phi_1 - 2\phi_3) + a_{1,1,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \cos(\phi_1 - 2\phi_4) + \\
& a_{1,1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \cos(\phi_1 + 2\phi_5) + a_{1,1,2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 + 2\phi_2) + \\
& a_{2,0,-1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(-2\phi_1 + \phi_2 + 2\phi_3) + a_{2,0,-1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(-2\phi_1 + \\
& \phi_2 + 2\phi_4) + a_{2,0,-1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 - \phi_2 + 2\phi_5) + \\
& a_{2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{2,0,1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 + \phi_2) + a_{2,0,1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 + \phi_2) + \\
& a_{2,0,1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 + \phi_2) + a_{2,0,1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(2\phi_1 + \phi_2) + \\
& a_{2,1,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(2\phi_1 + \phi_2) + a_{3,0,0,0,0,0,0,0,0,1}^r \rho_1^3 \rho_5^2 \cos(3\phi_1) + \\
& a_{3,0,0,0,0,0,0,1,0,0}^r \rho_1^3 \rho_4^2 \cos(3\phi_1) + a_{3,0,0,0,0,1,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(3\phi_1) + \\
& a_{3,0,0,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(3\phi_1) + a_{3,1,0,0,0,0,0,0,0,0}^r \rho_1^5 \cos(3\phi_1) + \\
& a_{4,0,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(4\phi_1 - \phi_2) - b_{-1,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \\
& \phi_3 + \phi_4 + \phi_5) - b_{-1,0,-1,0,-1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{-1,0,-2,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 + 2\phi_2 + 2\phi_3) - b_{-1,0,-2,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 + \\
& 2\phi_2 + 2\phi_4) - b_{-1,0,-2,0,0,0,0,2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 + 2\phi_2 - 2\phi_5) - \\
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_3 + 2\phi_5) - b_{-1,0,0,0,-2,0,2,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 + \\
& 2\phi_3 - 2\phi_4) - b_{-1,0,0,0,0,0,-2,0,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_4 + 2\phi_5) - \\
& b_{-1,0,0,0,0,0,0,0,2}^r \rho_1 \rho_5^4 \cos(\phi_1) - b_{-1,0,0,0,0,0,0,1,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1) - \\
& b_{-1,0,0,0,0,0,2,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1) - b_{-1,0,0,0,0,2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(-\phi_1 + 2\phi_4 + 2\phi_5) - \\
& b_{-1,0,0,0,1,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1) - b_{-1,0,0,0,1,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1) - \\
& b_{-1,0,0,0,2,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1) - b_{-1,0,0,0,2,0,-2,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 - 2\phi_3 + 2\phi_4) - \\
& b_{-1,0,0,0,2,0,0,0,2}^r \rho_1 \rho_3^2 \rho_5^2 \cos(-\phi_1 + 2\phi_3 + 2\phi_5) - b_{-1,0,0,1,0,0,0,0,1}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1) - \\
& b_{-1,0,0,1,0,0,0,1,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1) - b_{-1,0,0,1,0,1,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1) - \\
& b_{-1,0,0,2,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1) - b_{-1,0,1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 + \phi_3 - \phi_4 + \\
& \phi_5) - b_{-1,0,1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,2,0,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 - 2\phi_2 + 2\phi_5) - b_{-1,0,2,0,0,0,2,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(-\phi_1 + \\
& 2\phi_2 + 2\phi_4) - b_{-1,0,2,0,2,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(-\phi_1 + 2\phi_2 + 2\phi_3) - \\
& b_{-1,1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_5^2 \cos(\phi_1) - b_{-1,1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_4^2 \cos(\phi_1) - \\
& b_{-1,1,0,0,0,1,0,0,0}^r \rho_1^3 \rho_3^2 \cos(\phi_1) - b_{-1,1,0,1,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1) - \\
& b_{-1,2,0,0,0,0,0,0,0}^r \rho_1^5 \cos(\phi_1) - b_{-2,0,-1,0,-2,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 + \phi_2 + 2\phi_3) - \\
& b_{-2,0,-1,0,0,0,-2,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 + \phi_2 + 2\phi_4) - b_{-2,0,-1,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 + \\
& \phi_2 - 2\phi_5) - b_{-2,0,0,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{-2,0,0,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{-2,0,0,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{-2,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 - \phi_2) - b_{-2,0,1,0,0,0,0,1,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 - \phi_2) - \\
& b_{-2,0,1,0,0,1,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 - \phi_2) - b_{-2,0,1,1,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(2\phi_1 - \phi_2) - \\
& b_{-2,1,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(2\phi_1 - \phi_2) - b_{-3,0,0,0,-2,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(3\phi_1 + 2\phi_3) - \\
& b_{-3,0,0,0,0,0,-2,0,0}^r \rho_1^3 \rho_4^2 \cos(3\phi_1 + 2\phi_4) - b_{-3,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \cos(3\phi_1 - 2\phi_5) - \\
& b_{-3,0,2,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(3\phi_1 - 2\phi_2) - b_{0,0,-1,0,-2,0,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_3 + \\
& 2\phi_5) - b_{0,0,-1,0,-2,0,2,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 + 2\phi_3 - 2\phi_4) - \\
& b_{0,0,-1,0,0,0,-2,0,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_4 + 2\phi_5) - b_{0,0,-1,0,0,0,0,0,2}^r \rho_2 \rho_5^4 \cos(\phi_2) - \\
& b_{0,0,-1,0,0,0,1,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2) - b_{0,0,-1,0,0,0,2,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2) - \\
& b_{0,0,-1,0,0,0,2,0,2}^r \rho_2 \rho_4^2 \rho_5^2 \cos(-\phi_2 + 2\phi_4 + 2\phi_5) - b_{0,0,-1,0,0,1,0,0,1}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2) - \\
& b_{0,0,-1,0,0,1,0,1,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2) - b_{0,0,-1,0,0,2,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2) - \\
& b_{0,0,-1,0,2,0,-2,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 - 2\phi_3 + 2\phi_4) - b_{0,0,-1,0,2,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_2 + \\
& 2\phi_3 + 2\phi_5) - b_{0,0,-1,1,0,0,0,0,1}^r \rho_2^3 \rho_5^2 \cos(\phi_2) - b_{0,0,-1,1,0,0,0,1,0}^r \rho_2^3 \rho_4^2 \cos(\phi_2) - \\
& b_{0,0,-1,1,0,1,0,0,0}^r \rho_2^3 \rho_3^2 \cos(\phi_2) - b_{0,0,-1,2,0,0,0,0,0}^r \rho_2^5 \cos(\phi_2) - \\
& b_{0,0,-2,0,-1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-2,0,-1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{0,0,-2,0,1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,-3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(3\phi_2 + 2\phi_3) - b_{0,0,-3,0,0,0,-2,0,0}^r \rho_2^3 \rho_4^2 \cos(3\phi_2 + 2\phi_4) - \\
& b_{0,0,-3,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \cos(3\phi_2 - 2\phi_5) - b_{0,0,0,0,-1,0,-1,0,-3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \phi_4 + 3\phi_5) - \\
& b_{0,0,0,0,-1,0,-1,0,3,0}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \phi_4 - 3\phi_5) - b_{0,0,0,0,-1,0,-3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + 3\phi_4 -
\end{aligned}$$

$$\begin{aligned}
& \phi_5) - b_{0,0,0,0,-1,0,1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 - \phi_4 + \phi_5) - b_{0,0,0,0,-1,0,1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 - \\
& \phi_4 + \phi_5) - b_{0,0,0,0,-1,0,3,0,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(-\phi_3 + 3\phi_4 + \phi_5) - \\
& b_{0,0,0,0,-1,1,1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(\phi_3 - \phi_4 + \phi_5) - b_{0,0,0,0,-3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(3\phi_3 + \phi_4 - \\
& \phi_5) - b_{0,0,0,0,1,0,-1,0,-1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(-\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,0,1,0,-1,1,-1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(-\phi_3 + \\
& \phi_4 + \phi_5) - b_{0,0,0,0,1,0,1,0,1,1}^r \rho_3 \rho_4 \rho_5^3 \cos(\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,0,0,1,0,1,1,1,0}^r \rho_3 \rho_4^3 \rho_5 \cos(\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,0,1,1,-1,0,-1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(-\phi_3 + \phi_4 + \\
& \phi_5) - b_{0,0,0,0,1,1,1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,0,3,0,-1,0,1,0}^r \rho_3^3 \rho_4 \rho_5 \cos(3\phi_3 - \\
& \phi_4 + \phi_5) - b_{0,0,0,1,-1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,0,1,1,0,-1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_3 + \phi_4 + \phi_5) - b_{0,0,0,1,1,0,1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \\
& \phi_4 + \phi_5) - b_{0,0,1,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(-\phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{0,0,1,0,-2,0,0,0,2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 - 2\phi_3 + 2\phi_5) - b_{0,0,1,0,-4,0,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 - 4\phi_3) - \\
& b_{0,0,1,0,0,0,-2,0,2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 - 2\phi_4 + 2\phi_5) - b_{0,0,1,0,0,0,-4,0,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 - 4\phi_4) - \\
& b_{0,0,1,0,0,0,0,0,-2,1}^r \rho_2 \rho_5^4 \cos(\phi_2 - 2\phi_5) - b_{0,0,1,0,0,0,0,0,4,0}^r \rho_2 \rho_5^4 \cos(\phi_2 + 4\phi_5) - \\
& b_{0,0,1,0,0,0,0,1,-2,0}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 - 2\phi_5) - b_{0,0,1,0,0,0,2,0,0,1}^r \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_2 + 2\phi_4) - \\
& b_{0,0,1,0,0,0,2,1,0,0}^r \rho_2 \rho_4^4 \cos(\phi_2 + 2\phi_4) - b_{0,0,1,0,0,1,0,0,-2,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 - 2\phi_5) - \\
& b_{0,0,1,0,0,1,2,0,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 + 2\phi_4) - b_{0,0,1,0,2,0,0,0,0,0}^r \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_2 + 2\phi_3) - \\
& b_{0,0,1,0,2,0,0,1,0,0}^r \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_2 + 2\phi_3) - b_{0,0,1,0,2,1,0,0,0,0}^r \rho_2 \rho_3^4 \cos(\phi_2 + 2\phi_3) - \\
& b_{0,0,1,1,0,0,0,0,-2,0}^r \rho_3^3 \rho_5^2 \cos(\phi_2 - 2\phi_5) - b_{0,0,1,1,0,0,2,0,0,0}^r \rho_2^3 \rho_4^2 \cos(\phi_2 + 2\phi_4) - \\
& b_{0,0,1,1,2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(\phi_2 + 2\phi_3) - b_{0,0,2,0,-1,0,-1,0,1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 - \phi_3 - \phi_4 + \\
& \phi_5) - b_{0,0,2,0,1,0,1,0,-1,0}^r \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,3,0,-2,0,0,0,0,0}^r \rho_2^3 \rho_3^2 \cos(3\phi_2 - 2\phi_3) - b_{0,0,3,0,0,0,-2,0,0,0}^r \rho_2^3 \rho_4^2 \cos(3\phi_2 - 2\phi_4) - \\
& b_{0,0,3,0,0,0,0,0,2,0}^r \rho_2^3 \rho_5^2 \cos(3\phi_2 + 2\phi_5) - b_{0,0,5,0,0,0,0,0,0,0}^r \rho_2^5 \cos(5\phi_2) - \\
& b_{0,1,-1,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2 \rho_5^2 \cos(\phi_2) - b_{0,1,-1,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(\phi_2) - \\
& b_{0,1,-1,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(\phi_2) - b_{0,1,-1,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(\phi_2) - \\
& b_{0,1,0,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 - \phi_4 + \phi_5) - b_{0,1,0,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(- \\
& \phi_3 + \phi_4 + \phi_5) - b_{0,1,0,0,1,0,1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,1,1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(\phi_2 - 2\phi_5) - b_{0,1,1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(\phi_2 + 2\phi_4) - \\
& b_{0,1,1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(\phi_2 + 2\phi_3) - b_{0,2,-1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(\phi_2) - \\
& b_{1,0,-1,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,-1,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,-1,0,1,0,1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,-2,0,0,0,0,0,0,1}^r \rho_1 \rho_2 \rho_5^2 \cos(\phi_1 - 2\phi_2) - b_{1,0,-2,0,0,0,0,1,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 - 2\phi_2) - \\
& b_{1,0,-2,0,0,1,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 - 2\phi_2) - b_{1,0,-2,1,0,0,0,0,0,0}^r \rho_1 \rho_2^4 \cos(\phi_1 - 2\phi_2) - \\
& b_{1,0,0,0,-2,0,-2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(-\phi_1 + 2\phi_3 + 2\phi_4) - b_{1,0,0,0,-2,0,0,0,2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 - \\
& 2\phi_3 + 2\phi_5) - b_{1,0,0,0,-4,0,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 - 4\phi_3) - b_{1,0,0,0,0,0,-2,0,2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 - \\
& 2\phi_4 + 2\phi_5) - b_{1,0,0,0,0,0,-4,0,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 - 4\phi_4) - b_{1,0,0,0,0,0,0,-2,1}^r \rho_1 \rho_5^4 \cos(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,0,0,0,0,0,4,0}^r \rho_1 \rho_5^4 \cos(\phi_1 + 4\phi_5) - b_{1,0,0,0,0,0,0,1,-2,0}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,0,0,0,2,0,0,1}^r \rho_1 \rho_4^2 \rho_5^2 \cos(\phi_1 + 2\phi_4) - b_{1,0,0,0,0,0,2,1,0,0}^r \rho_1 \rho_4^4 \cos(\phi_1 + 2\phi_4) - \\
& b_{1,0,0,0,0,1,0,0,-2,0}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 - 2\phi_5) - b_{1,0,0,0,0,1,2,0,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 + 2\phi_4) - \\
& b_{1,0,0,0,2,0,0,0,0,1}^r \rho_1 \rho_3^2 \rho_5^2 \cos(\phi_1 + 2\phi_3) - b_{1,0,0,0,2,0,0,1,0,0}^r \rho_1 \rho_3^2 \rho_4^2 \cos(\phi_1 + 2\phi_3) - \\
& b_{1,0,0,0,2,1,0,0,0,0}^r \rho_1 \rho_3^4 \cos(\phi_1 + 2\phi_3) - b_{1,0,0,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^2 \rho_5^2 \cos(\phi_1 - 2\phi_5) - \\
& b_{1,0,0,1,0,0,2,0,0,0}^r \rho_1 \rho_2^2 \rho_4^2 \cos(\phi_1 + 2\phi_4) - b_{1,0,0,1,2,0,0,0,0,0}^r \rho_1 \rho_2^2 \rho_3^2 \cos(\phi_1 + 2\phi_3) -
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,1,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,1,0,1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \cos(\phi_1 + 2\phi_2 - 2\phi_3) - b_{1,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \cos(\phi_1 + \\
& 2\phi_2 - 2\phi_4) - b_{1,0,2,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \cos(\phi_1 + 2\phi_2 + 2\phi_5) - \\
& b_{1,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(\phi_1 + 4\phi_2) - b_{1,1,-2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 - 2\phi_2) - \\
& b_{1,1,0,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 - 2\phi_5) - b_{1,1,0,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 + 2\phi_4) - \\
& b_{1,1,0,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 + 2\phi_3) - b_{2,0,-1,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(-2\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{2,0,-1,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 - \phi_2 + 2\phi_4) - b_{2,0,-1,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 - \\
& \phi_2 + 2\phi_3) - b_{2,0,-3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^3 \cos(2\phi_1 - 3\phi_2) - \\
& b_{2,0,0,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{2,0,0,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{2,0,1,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2 \rho_3^2 \cos(2\phi_1 + \phi_2 - 2\phi_3) - b_{2,0,1,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2 \rho_4^2 \cos(2\phi_1 + \\
& \phi_2 - 2\phi_4) - b_{2,0,1,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2 \rho_5^2 \cos(2\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{2,0,3,0,0,0,0,0,0,0}^r \rho_1^2 \rho_3^2 \cos(2\phi_1 + 3\phi_2) - b_{3,0,0,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 - 2\phi_3) - \\
& b_{3,0,0,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_4^2 \cos(3\phi_1 - 2\phi_4) - b_{3,0,0,0,0,0,0,0,2,0}^r \rho_1^3 \rho_5^2 \cos(3\phi_1 + 2\phi_5) - \\
& b_{3,0,2,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(3\phi_1 + 2\phi_2) - b_{4,0,1,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2 \cos(4\phi_1 + \phi_2) - \\
& b_{5,0,0,0,0,0,0,0,0,0}^r \rho_1^5 \cos(5\phi_1)
\end{aligned}$$

**Cartesian e-coordinates:**

$$\begin{aligned}
H_{XX}^{(5)} = & a_{0,0,0,0,1,0,-1,0,-3,0}^r (x_3(x_4x_5^3 - 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3) + y_3(3x_4x_5^2y_5 - x_4y_5^3 + x_5^3y_4 - \\
& 3x_5y_4y_5^2)) + a_{0,0,0,0,1,0,-1,0,3,0}^r (x_3(x_4x_5^3 - 3x_4x_5y_5^2 + 3x_5^2y_4y_5 - y_4y_5^3) + y_3(-3x_4x_5^2y_5 + \\
& x_4y_5^3 + x_5^3y_4 - 3x_5y_4y_5^2)) + a_{0,0,0,0,1,0,-3,0,1,0}^r (x_3(x_4^3x_5 + 3x_4^2y_4y_5 - 3x_4x_5y_4^2 - y_4^3y_5) + y_3(- \\
& x_4^3y_5 + 3x_4^2x_5y_4 + 3x_4y_4^2y_5 - x_5y_4^3)) + a_{0,0,0,0,1,0,1,0,-1,1}^r (x_5^2 + y_5^2)(x_3(x_4x_5 + y_4y_5) + \\
& y_3(x_4y_5 - x_5y_4)) + a_{0,0,0,0,1,0,1,1,-1,0}^r (x_4^2 + y_4^2)(x_3(x_4x_5 + y_4y_5) + y_3(x_4y_5 - x_5y_4)) + \\
& a_{0,0,0,0,1,0,3,0,1,0}^r (x_3(x_4^3x_5 - 3x_4^2y_4y_5 - 3x_4x_5y_4^2 + y_4^3y_5) + y_3(-x_4^3y_5 - 3x_4^2x_5y_4 + \\
& 3x_4y_4^2y_5 + x_5y_4^3)) + a_{0,0,0,0,1,1,1,0,-1,0}^r (x_3^2 + y_3^2)(x_3(x_4x_5 + y_4y_5) + y_3(x_4y_5 - x_5y_4)) + \\
& a_{0,0,0,0,3,0,-1,0,-1,0}^r (x_3(-3x_4x_5y_3^2 + 3y_3^2y_4y_5) + x_4(x_3^3x_5 - y_3^3y_5) + y_3(3x_3^2x_4y_5 + 3x_3^2x_5y_4) + \\
& y_4(-x_3^3y_5 - x_5y_3^3)) + a_{0,0,0,0,3,0,1,0,1,0}^r (x_3(-3x_4x_5y_3^2 + 3y_3^2y_4y_5) + x_4(x_3^3x_5 + y_3^3y_5) + y_3(- \\
& 3x_3^2x_4y_5 - 3x_3^2x_5y_4) + y_4(-x_3^3y_5 + x_5y_3^3)) + a_{0,0,0,1,1,0,1,0,-1,0}^r (x_2^2 + y_2^2)(x_3(x_4x_5 + y_4y_5) + \\
& y_3(x_4y_5 - x_5y_4)) + a_{0,0,1,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_2(x_3^2 - y_3^2) + 2x_3y_2y_3) + a_{0,0,1,0,-2,0,0,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_2(x_3^2 - y_3^2) + 2x_3y_2y_3) + a_{0,0,1,0,-2,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_2(x_3^2 - y_3^2) + 2x_3y_2y_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2)(x_2(x_4^2 - y_4^2) + 2x_4y_2y_4) + a_{0,0,1,0,0,0,-2,1,0,0}^r (x_4^2 + y_4^2)(x_2(x_4^2 - y_4^2) + \\
& 2x_4y_2y_4) + a_{0,0,1,0,0,0,0,0,-4,0}^r (x_2(x_5^4 - 6x_5^2y_5^2 + y_5^4) + y_2(4x_5^3y_5 - 4x_5y_5^3)) + a_{0,0,1,0,0,0,0,0,2,1}^r (x_5^2 + \\
& y_5^2)(x_2(x_5^2 - y_5^2) - 2x_5y_2y_5) + a_{0,0,1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2)(x_2(x_5^2 - y_5^2) - 2x_5y_2y_5) + \\
& a_{0,0,1,0,0,0,2,0,-2,0}^r (x_2(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_2(2x_4^2x_5y_5 - \\
& 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) + a_{0,0,1,0,0,0,4,0,0,0}^r (x_2(x_4^4 - 6x_4^2y_4^2 + y_4^4) + y_2(-4x_4^3y_4 + \\
& 4x_4y_4^3)) + a_{0,0,1,0,0,1,-2,0,0,0}^r (x_3^2 + y_3^2)(x_2(x_4^2 - y_4^2) + 2x_4y_2y_4) + a_{0,0,1,0,0,1,0,0,2,0}^r (x_3^2 + \\
& y_3^2)(x_2(x_5^2 - y_5^2) - 2x_5y_2y_5) + a_{0,0,1,0,2,0,0,0,-2,0}^r (x_2(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + \\
& y_3^2y_5^2) + y_2(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5)) + a_{0,0,1,0,2,0,2,0,0,0}^r (x_2(x_3^2x_4^2 - \\
& x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_2(-2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 + \\
& 2x_4y_3^2y_4)) + a_{0,0,1,0,4,0,0,0,0,0}^r (x_2(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_2(-4x_3^3y_3 + 4x_3y_3^3)) + \\
& a_{0,0,1,1,-2,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_2(x_3^2 - y_3^2) + 2x_3y_2y_3) + a_{0,0,1,1,0,0,-2,0,0,0}^r (x_2^2 + y_2^2)(x_2(x_4^2 - y_4^2) +
\end{aligned}$$

$$\begin{aligned}
& 2x_4y_2y_4) + a_{0,0,1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_2(x_5^2 - y_5^2) - 2x_5y_2y_5) + a_{0,0,2,0,-1,0,-1,0,-1,0}^r(x_2(2x_3x_4y_2y_5 + \\
& 2x_3x_5y_2y_4 + 2x_4x_5y_2y_3 - 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 - x_2^2y_4y_5 - x_4x_5y_2^2 + y_2^2y_4y_5) + y_3(- \\
& x_2^2x_4y_5 - x_2^2x_5y_4 + x_4y_2^2y_5 + x_5y_2^2y_4)) + a_{0,0,2,0,-1,0,1,0,1,0}^r(x_2(-2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 + \\
& 2x_4x_5y_2y_3 - 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 - x_2^2y_4y_5 - x_4x_5y_2^2 + y_2^2y_4y_5) + y_3(x_2^2x_4y_5 + \\
& x_2^2x_5y_4 - x_4y_2^2y_5 - x_5y_2^2y_4)) + a_{0,0,2,0,1,0,-1,0,1,0}^r(x_2(-2x_3x_4y_2y_5 + 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 - \\
& 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 + x_2^2y_4y_5 - x_4x_5y_2^2 - y_2^2y_4y_5) + y_3(-x_2^2x_4y_5 + x_2^2x_5y_4 + \\
& x_4y_2^2y_5 - x_5y_2^2y_4)) + a_{0,0,3,0,0,0,0,0,0,1}^r x_2(x_2^2 - 3y_2^2)(x_5^2 + y_5^2) + a_{0,0,3,0,0,0,0,0,1,0,0}^r x_2(x_2^2 - \\
& 3y_2^2)(x_4^2 + y_4^2) + a_{0,0,3,0,0,1,0,0,0,0}^r x_2(x_2^2 - 3y_2^2)(x_3^2 + y_3^2) + a_{0,0,3,1,0,0,0,0,0,0}^r x_2(x_2^2 - 3y_2^2)(x_2^2 + \\
& y_2^2) + a_{0,1,0,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_3(x_4x_5 + y_4y_5) + y_3(x_4y_5 - x_5y_4)) + a_{0,1,1,0,-2,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_2(x_3^2 - y_3^2) + 2x_3y_2y_3) + a_{0,1,1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_4^2 - y_4^2) + 2x_4y_2y_4) + \\
& a_{0,1,1,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_2(x_5^2 - y_5^2) - 2x_5y_2y_5) + a_{0,1,3,0,0,0,0,0,0,0}^r x_2(x_1^2 + y_1^2)(x_2^2 - 3y_2^2) + \\
& a_{1,0,-1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 - \\
& x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + a_{1,0,-1,0,1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + \\
& a_{1,0,-2,0,0,0,0,0,-2,0}^r(x_1(x_2^2x_5^2 - x_2^2y_5^2 - 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2) + y_1(2x_2^2x_5y_5 + \\
& 2x_2x_5^2y_2 - 2x_2y_2y_5^2 - 2x_5y_2^2y_5)) + a_{1,0,-2,0,0,0,2,0,0,0}^r(x_1(x_2^2x_4^2 - x_2^2y_4^2 + 4x_2x_4y_2y_4 - \\
& x_4^2y_2^2 + y_2^2y_4^2) + y_1(-2x_2^2x_4y_4 + 2x_2x_4^2y_2 - 2x_2y_2y_4^2 + 2x_4y_2^2y_4)) + \\
& a_{1,0,-2,0,2,0,0,0,0,0}^r(x_1(x_2^2x_3^2 - x_2^2y_3^2 + 4x_2x_3y_2y_3 - x_3^2y_2^2 + y_2^2y_3^2) + y_1(-2x_2^2x_3y_3 + \\
& 2x_2x_3^2y_2 - 2x_2y_2y_3^2 + 2x_3y_2^2y_3)) + a_{1,0,-4,0,0,0,0,0,0,0}^r(x_1(x_2^4 - 6x_2^2y_2^2 + y_2^4) + y_1(4x_2^3y_2 - \\
& 4x_2y_2^3)) + a_{1,0,0,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,0,-2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + \\
& a_{1,0,0,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,0,0,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_4^2 - y_4^2) + \\
& 2x_4y_1y_4) + a_{1,0,0,0,0,0,0,0,-4,0}^r(x_1(x_5^4 - 6x_5^2y_5^2 + y_5^4) + y_1(4x_5^3y_5 - 4x_5y_5^3)) + a_{1,0,0,0,0,0,0,0,2,1}^r(x_5^2 + \\
& y_5^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,0,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + \\
& a_{1,0,0,0,0,0,2,0,-2,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_1(2x_4^2x_5y_5 - \\
& 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) + a_{1,0,0,0,0,0,4,0,0,0}^r(x_1(x_4^4 - 6x_4^2y_4^2 + y_4^4) + y_1(-4x_4^3y_4 + \\
& 4x_4y_4^3)) + a_{1,0,0,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,0,0,0,0,1,0,0,2,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,0,0,2,0,0,0,-2,0}^r(x_1(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + \\
& y_3^2y_5^2) + y_1(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5)) + a_{1,0,0,0,2,0,2,0,0,0}^r(x_1(x_3^2x_4^2 - \\
& x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_1(-2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 + \\
& 2x_4y_3^2y_4)) + a_{1,0,0,0,4,0,0,0,0,0}^r(x_1(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_1(-4x_3^3y_3 + 4x_3y_3^3)) + \\
& a_{1,0,0,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_4^2 - y_4^2) + \\
& 2x_4y_1y_4) + a_{1,0,0,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,1,0,-1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4x_5 - \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + \\
& x_5y_2y_3y_4)) + a_{1,0,1,0,-1,0,1,0,1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) + a_{1,0,1,0,1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + \\
& x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + \\
& a_{1,0,2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,0,2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2^2 - y_2^2) -
\end{aligned}$$

$$\begin{aligned}
& 2x_2y_1y_2) + a_{1,0,2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,0,2,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,1,0,0,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + \\
& a_{1,1,0,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,1,0,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1(x_5^2 - y_5^2) - \\
& 2x_5y_1y_5) + a_{1,1,2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{2,0,-1,0,-2,0,0,0,0,0}^r(x_1(4x_2x_3y_1y_3 + \\
& 2x_3^2y_1y_2 - 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(-2x_1^2x_3y_3 + \\
& 2x_3y_1^2y_3)) + a_{2,0,-1,0,0,0,-2,0,0,0}^r(x_1(4x_2x_4y_1y_4 + 2x_4^2y_1y_2 - 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - \\
& x_4^2y_1^2 + y_1^2y_4^2) + y_2(-2x_1^2x_4y_4 + 2x_4y_1^2y_4)) + a_{2,0,-1,0,0,0,0,0,2,0}^r(x_1(-4x_2x_5y_1y_5 + \\
& 2x_5^2y_1y_2 - 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2) + y_2(2x_1^2x_5y_5 - \\
& 2x_5y_1^2y_5)) + a_{2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 - x_1^2x_5y_4 + x_4y_1^2y_5 + \\
& x_5y_1^2y_4)) + a_{2,0,0,0,-1,0,1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - \\
& x_5y_1^2y_4)) + a_{2,0,0,0,1,0,-1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + \\
& x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 + x_1^2x_5y_4 + x_4y_1^2y_5 - \\
& x_5y_1^2y_4)) + a_{2,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(- \\
& 2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + \\
& a_{2,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(-2x_1y_1y_2 + \\
& x_2(x_1^2 - y_1^2)) + a_{3,0,0,0,0,0,0,0,0,1}^r(x_1(x_1^2 - 3y_1^2)(x_5^2 + y_5^2) + a_{3,0,0,0,0,0,0,1,0,0}^r(x_1(x_1^2 - 3y_1^2)(x_4^2 + \\
& y_4^2) + a_{3,0,0,0,0,1,0,0,0,0}^r(x_1(x_1^2 - 3y_1^2)(x_3^2 + y_3^2) + a_{3,0,0,1,0,0,0,0,0,0}^r(x_1(x_1^2 - 3y_1^2)(x_2^2 + y_2^2) + \\
& a_{3,1,0,0,0,0,0,0,0,0}^r(x_1(x_1^2 - 3y_1^2)(x_1^2 + y_1^2) + a_{4,0,-1,0,0,0,0,0,0,0}^r(4x_1^3y_1y_2 - 4x_1y_1^3y_2 + x_2(x_1^4 - \\
& 6x_1^2y_1^2 + y_1^4)) + b_{-1,0,-1,0,-1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 - \\
& x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 + \\
& x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4)) + b_{-1,0,-1,0,-1,0,1,0,1,0}^r(x_1(x_2x_3x_4x_5 - \\
& x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5) + \\
& y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 - \\
& x_5y_2y_3y_4)) + b_{-1,0,-1,0,1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + b_{-1,0,-2,0,-2,0,0,0,0,0}^r(x_1(x_2^2x_3^2 - x_2^2y_3^2 - \\
& 4x_2x_3y_2y_3 - x_3^2y_2^2 + y_2^2y_3^2) + y_1(-2x_2^2x_3y_3 - 2x_2x_3^2y_2 + 2x_2y_2y_3^2 + 2x_3y_2^2y_3)) + \\
& b_{-1,0,-2,0,0,0,-2,0,0,0}^r(x_1(x_2^2x_4^2 - x_2^2y_4^2 - 4x_2x_4y_2y_4 - x_4^2y_2^2 + y_2^2y_4^2) + y_1(-2x_2^2x_4y_4 - \\
& 2x_2x_4^2y_2 + 2x_2y_2y_4^2 + 2x_4y_2^2y_4)) + b_{-1,0,-2,0,0,0,0,0,2,0}^r(x_1(x_2^2x_5^2 - x_2^2y_5^2 + 4x_2x_5y_2y_5 - \\
& x_5^2y_2^2 + y_2^2y_5^2) + y_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - 2x_5y_2^2y_5)) + \\
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r(x_1(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_1(-2x_3^2x_5y_5 - \\
& 2x_3x_5^2y_3 + 2x_3y_3y_5^2 + 2x_5y_3^2y_5)) + b_{-1,0,0,0,-2,0,2,0,0,0}^r(x_1(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - \\
& x_4^2y_3^2 + y_3^2y_4^2) + y_1(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) + \\
& b_{-1,0,0,0,0,0,-2,0,-2,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_1(-2x_4^2x_5y_5 - \\
& 2x_4x_5^2y_4 + 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) + b_{-1,0,0,0,0,0,0,0,0,2}^r(x_1(x_5^2 + y_5^2)^2 + b_{-1,0,0,0,0,0,0,1,0,1}^r(x_1(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,0,2,0,0}^r(x_1(x_4^2 + y_4^2)^2 + b_{-1,0,0,0,0,0,2,0,2,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 - \\
& 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_1(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) + \\
& b_{-1,0,0,0,0,1,0,0,0,1}^r(x_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,1,0,1,0,0}^r(x_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& b_{-1,0,0,0,0,2,0,0,0,0}^r(x_1(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + \\
& y_3^2y_4^2) + y_1(-2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 + 2x_4y_3^2y_4)) + b_{-1,0,0,0,2,0,0,0,2,0}^r(x_1(x_3^2x_5^2 -
\end{aligned}$$

$$\begin{aligned}
& x_3^2 y_5^2 - 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2) + y_1(2x_3^2 x_5 y_5 + 2x_3 x_5^2 y_3 - 2x_3 y_3 y_5^2 - \\
& 2x_5 y_3^2 y_5) + b_{-1,0,0,1,0,0,0,0,0,1}^r x_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{-1,0,0,1,0,0,0,1,0,0}^r x_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& b_{-1,0,0,1,0,1,0,0,0,0}^r x_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{-1,0,0,2,0,0,0,0,0,0}^r x_1(x_2^2 + y_2^2)^2 + \\
& b_{-1,0,1,0,-1,0,1,0,-1,0}^r (x_1(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + \\
& x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1(-x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4)) + b_{-1,0,1,0,1,0,-1,0,-1,0}^r (x_1(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 + \\
& x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1(-x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4)) + \\
& b_{-1,0,1,0,1,0,1,0,1,0}^r (x_1(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - \\
& x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - \\
& x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4)) + b_{-1,0,2,0,0,0,0,0,-2,0}^r (x_1(x_2^2 x_5^2 - x_2^2 y_5^2 + 4x_2 x_5 y_2 y_5 - \\
& x_5^2 y_2^2 + y_2^2 y_5^2) + y_1(-2x_2^2 x_5 y_5 + 2x_2 x_5^2 y_2 - 2x_2 y_2 y_5^2 + 2x_5 y_2^2 y_5)) + \\
& b_{-1,0,2,0,0,0,2,0,0,0}^r (x_1(x_2^2 x_4^2 - x_2^2 y_4^2 - 4x_2 x_4 y_2 y_4 - x_4^2 y_2^2 + y_2^2 y_4^2) + y_1(2x_2^2 x_4 y_4 + \\
& 2x_2 x_4^2 y_2 - 2x_2 y_2 y_4^2 - 2x_4 y_2^2 y_4)) + b_{-1,0,2,0,2,0,0,0,0,0}^r (x_1(x_2^2 x_3^2 - x_2^2 y_3^2 - 4x_2 x_3 y_2 y_3 - \\
& x_3^2 y_2^2 + y_2^2 y_3^2) + y_1(2x_2^2 x_3 y_3 + 2x_2 x_3^2 y_2 - 2x_2 y_2 y_3^2 - 2x_3 y_2^2 y_3)) + \\
& b_{-1,1,0,0,0,0,0,0,0,1}^r x_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) + b_{-1,1,0,0,0,0,0,1,0,0}^r x_1(x_1^2 + y_1^2)(x_4^2 + y_4^2) + \\
& b_{-1,1,0,0,0,1,0,0,0,0}^r x_1(x_1^2 + y_1^2)(x_3^2 + y_3^2) + b_{-1,1,0,1,0,0,0,0,0,0}^r x_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) + \\
& b_{-1,2,0,0,0,0,0,0,0,0}^r x_1(x_1^2 + y_1^2)^2 + b_{-2,0,-1,0,-2,0,0,0,0,0}^r (x_1(-4x_2 x_3 y_1 y_3 - 2x_3^2 y_1 y_2 + 2y_1 y_2 y_3^2) + \\
& x_2(x_1^2 x_3^2 - x_1^2 y_3^2 - x_3^2 y_1^2 + y_1^2 y_3^2) + y_2(-2x_1^2 x_3 y_3 + 2x_3 y_1^2 y_3)) + \\
& b_{-2,0,-1,0,0,0,-2,0,0,0}^r (x_1(-4x_2 x_4 y_1 y_4 - 2x_4^2 y_1 y_2 + 2y_1 y_2 y_4^2) + x_2(x_1^2 x_4^2 - x_1^2 y_4^2 - x_4^2 y_1^2 + \\
& y_1^2 y_4^2) + y_2(-2x_1^2 x_4 y_4 + 2x_4 y_1^2 y_4)) + b_{-2,0,-1,0,0,0,0,0,2,0}^r (x_1(4x_2 x_5 y_1 y_5 - 2x_5^2 y_1 y_2 + \\
& 2y_1 y_2 y_5^2) + x_2(x_1^2 x_5^2 - x_1^2 y_5^2 - x_5^2 y_1^2 + y_1^2 y_5^2) + y_2(2x_1^2 x_5 y_5 - 2x_5 y_1^2 y_5)) + \\
& b_{-2,0,0,0,-1,0,-1,0,-1,0}^r (x_1(-2x_3 x_4 y_1 y_5 - 2x_3 x_5 y_1 y_4 - 2x_4 x_5 y_1 y_3 + 2y_1 y_3 y_4 y_5) + x_3(x_1^2 x_4 x_5 - \\
& x_1^2 y_4 y_5 - x_4 x_5 y_1^2 + y_1^2 y_4 y_5) + y_3(-x_1^2 x_4 y_5 - x_1^2 x_5 y_4 + x_4 y_1^2 y_5 + x_5 y_1^2 y_4)) + \\
& b_{-2,0,0,0,-1,0,1,0,1,0}^r (x_1(2x_3 x_4 y_1 y_5 + 2x_3 x_5 y_1 y_4 - 2x_4 x_5 y_1 y_3 + 2y_1 y_3 y_4 y_5) + x_3(x_1^2 x_4 x_5 - \\
& x_1^2 y_4 y_5 - x_4 x_5 y_1^2 + y_1^2 y_4 y_5) + y_3(x_1^2 x_4 y_5 + x_1^2 x_5 y_4 - x_4 y_1^2 y_5 - x_5 y_1^2 y_4)) + \\
& b_{-2,0,0,0,1,0,-1,0,1,0}^r (x_1(2x_3 x_4 y_1 y_5 - 2x_3 x_5 y_1 y_4 + 2x_4 x_5 y_1 y_3 + 2y_1 y_3 y_4 y_5) + x_3(x_1^2 x_4 x_5 + \\
& x_1^2 y_4 y_5 - x_4 x_5 y_1^2 - y_1^2 y_4 y_5) + y_3(-x_1^2 x_4 y_5 + x_1^2 x_5 y_4 + x_4 y_1^2 y_5 - x_5 y_1^2 y_4)) + \\
& b_{-2,0,1,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(2x_1 y_1 y_2 + x_2(x_1^2 - y_1^2)) + b_{-2,0,1,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(2x_1 y_1 y_2 + \\
& x_2(x_1^2 - y_1^2)) + b_{-2,0,1,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(2x_1 y_1 y_2 + x_2(x_1^2 - y_1^2)) + b_{-2,0,1,1,0,0,0,0,0,0}^r (x_2^2 + \\
& y_2^2)(2x_1 y_1 y_2 + x_2(x_1^2 - y_1^2)) + b_{-2,1,1,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(2x_1 y_1 y_2 + x_2(x_1^2 - y_1^2)) + \\
& b_{-3,0,0,0,-2,0,0,0,0,0}^r (x_1^3 x_3^2 - x_1^3 y_3^2 - 6x_1^2 x_3 y_1 y_3 + x_1(-3x_3^2 y_1^2 + 3y_1^2 y_3^2) + 2x_3 y_1^3 y_3) + \\
& b_{-3,0,0,0,0,0,-2,0,0,0}^r (x_1^3 x_4^2 - x_1^3 y_4^2 - 6x_1^2 x_4 y_1 y_4 + x_1(-3x_4^2 y_1^2 + 3y_1^2 y_4^2) + 2x_4 y_1^3 y_4) + \\
& b_{-3,0,0,0,0,0,0,2,0}^r (x_1^3 x_5^2 - x_1^3 y_5^2 + 6x_1^2 x_5 y_1 y_5 + x_1(-3x_5^2 y_1^2 + 3y_1^2 y_5^2) - 2x_5 y_1^3 y_5) + \\
& b_{-3,0,2,0,0,0,0,0,0,0}^r (x_1^3 x_2^2 - x_1^3 y_2^2 + 6x_1^2 x_2 y_1 y_2 + x_1(-3x_2^2 y_1^2 + 3y_1^2 y_2^2) - 2x_2 y_1^3 y_2) + \\
& b_{0,0,-1,0,-2,0,0,0,-2,0}^r (x_2(x_3^2 x_5^2 - x_3^2 y_5^2 - 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2) + y_2(-2x_3^2 x_5 y_5 - \\
& 2x_3 x_5^2 y_3 + 2x_3 y_3 y_5^2 + 2x_5 y_3^2 y_5)) + b_{0,0,-1,0,-2,0,2,0,0,0}^r (x_2(x_3^2 x_4^2 - x_3^2 y_4^2 + 4x_3 x_4 y_3 y_4 - \\
& x_4^2 y_3^2 + y_3^2 y_4^2) + y_2(2x_3^2 x_4 y_4 - 2x_3 x_4^2 y_3 + 2x_3 y_3 y_4^2 - 2x_4 y_3^2 y_4)) + \\
& b_{0,0,-1,0,0,0,-2,0,-2,0}^r (x_2(x_4^2 x_5^2 - x_4^2 y_5^2 - 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2) + y_2(-2x_4^2 x_5 y_5 - \\
& 2x_4 x_5^2 y_4 + 2x_4 y_4 y_5^2 + 2x_5 y_4^2 y_5)) + b_{0,0,-1,0,0,0,0,0,2}^r x_2(x_5^2 + y_5^2)^2 + b_{0,0,-1,0,0,0,0,1,0,1}^r x_2(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) + b_{0,0,-1,0,0,0,0,2,0,0}^r x_2(x_4^2 + y_4^2)^2 + b_{0,0,-1,0,0,0,2,0,2,0}^r (x_2(x_4^2 x_5^2 - x_4^2 y_5^2 - \\
& 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2) + y_2(2x_4^2 x_5 y_5 + 2x_4 x_5^2 y_4 - 2x_4 y_4 y_5^2 - 2x_5 y_4^2 y_5)) +
\end{aligned}$$



$$\begin{aligned}
& b_{0,0,-1,0,0,1,0,0,0,1}^r x_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,-1,0,0,1,0,1,0,0}^r x_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& b_{0,0,-1,0,0,2,0,0,0,0}^r x_2(x_3^2 + y_3^2)^2 + b_{0,0,-1,0,2,0,-2,0,0,0}^r (x_2(x_3^2 x_4^2 - x_3^2 y_4^2 + 4x_3 x_4 y_3 y_4 - x_4^2 y_3^2 + \\
& y_3^2 y_4^2) + y_2(-2x_3^2 x_4 y_4 + 2x_3 x_4^2 y_3 - 2x_3 y_3 y_4^2 + 2x_4 y_3^2 y_4)) + b_{0,0,-1,0,2,0,0,0,2,0}^r (x_2(x_3^2 x_5^2 - \\
& x_3^2 y_5^2 - 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2) + y_2(2x_3^2 x_5 y_5 + 2x_3 x_5^2 y_3 - 2x_3 y_3 y_5^2 - \\
& 2x_5 y_3^2 y_5)) + b_{0,0,-1,1,0,0,0,0,0,1}^r x_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,-1,1,0,0,0,1,0,0}^r x_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& b_{0,0,-1,1,0,1,0,0,0,0}^r x_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{0,0,-1,2,0,0,0,0,0,0}^r x_2(x_2^2 + y_2^2)^2 + b_{0,0,-2,0,-1,0,-1,0,-1,0}^r (x_2(- \\
& 2x_3 x_4 y_2 y_5 - 2x_3 x_5 y_2 y_4 - 2x_4 x_5 y_2 y_3 + 2y_2 y_3 y_4 y_5) + x_3(x_2^2 x_4 x_5 - x_2^2 y_4 y_5 - x_4 x_5 y_2^2 + \\
& y_2^2 y_4 y_5) + y_3(-x_2^2 x_4 y_5 - x_2^2 x_5 y_4 + x_4 y_2^2 y_5 + x_5 y_2^2 y_4)) + b_{0,0,-2,0,-1,0,1,0,1,0}^r (x_2(2x_3 x_4 y_2 y_5 + \\
& 2x_3 x_5 y_2 y_4 - 2x_4 x_5 y_2 y_3 + 2y_2 y_3 y_4 y_5) + x_3(x_2^2 x_4 x_5 - x_2^2 y_4 y_5 - x_4 x_5 y_2^2 + y_2^2 y_4 y_5) + \\
& y_3(x_2^2 x_4 y_5 + x_2^2 x_5 y_4 - x_4 y_2^2 y_5 - x_5 y_2^2 y_4)) + b_{0,0,-2,0,1,0,-1,0,1,0}^r (x_2(2x_3 x_4 y_2 y_5 - 2x_3 x_5 y_2 y_4 + \\
& 2x_4 x_5 y_2 y_3 + 2y_2 y_3 y_4 y_5) + x_3(x_2^2 x_4 x_5 + x_2^2 y_4 y_5 - x_4 x_5 y_2^2 - y_2^2 y_4 y_5) + y_3(-x_2^2 x_4 y_5 + \\
& x_2^2 x_5 y_4 + x_4 y_2^2 y_5 - x_5 y_2^2 y_4)) + b_{0,0,-3,0,-2,0,0,0,0,0}^r (x_2^3 x_3^2 - x_2^3 y_3^2 - 6x_2^2 x_3 y_2 y_3 + x_2(- \\
& 3x_3^2 y_2^2 + 3y_2^2 y_3^2) + 2x_3 y_2^2 y_3) + b_{0,0,-3,0,0,0,-2,0,0,0}^r (x_2^3 x_4^2 - x_2^3 y_4^2 - 6x_2^2 x_4 y_2 y_4 + x_2(- \\
& 3x_4^2 y_2^2 + 3y_2^2 y_4^2) + 2x_4 y_2^2 y_4) + b_{0,0,-3,0,0,0,0,2,0}^r (x_2^3 x_5^2 - x_2^3 y_5^2 + 6x_2^2 x_5 y_2 y_5 + x_2(- \\
& 3x_5^2 y_2^2 + 3y_2^2 y_5^2) - 2x_5 y_2^3 y_5) + b_{0,0,0,0,-1,0,-1,0,-3,0}^r (x_3(x_4 x_5^3 - 3x_4 x_5 y_5^2 - 3x_5^2 y_4 y_5 + \\
& y_4 y_5^3) + y_3(-3x_4 x_5^2 y_5 + x_4 y_5^3 - x_5^3 y_4 + 3x_5 y_4 y_5^2)) + b_{0,0,0,0,-1,0,-1,0,3,0}^r (x_3(x_4 x_5^3 - \\
& 3x_4 x_5 y_5^2 + 3x_5^2 y_4 y_5 - y_4 y_5^3) + y_3(3x_4 x_5^2 y_5 - x_4 y_5^3 - x_5^3 y_4 + 3x_5 y_4 y_5^2)) + \\
& b_{0,0,0,0,-1,0,-3,0,1,0}^r (x_3(x_4^3 x_5 + 3x_4^2 y_4 y_5 - 3x_4 x_5 y_4^2 - y_4^3 y_5) + y_3(x_4^3 y_5 - 3x_4^2 x_5 y_4 - \\
& 3x_4 y_4^2 y_5 + x_5 y_4^3)) + b_{0,0,0,0,-1,0,1,0,-1,1}^r (x_2^5 + y_2^5)(x_3(x_4 x_5 + y_4 y_5) + y_3(-x_4 y_5 + x_5 y_4)) + \\
& b_{0,0,0,0,-1,0,1,1,-1,0}^r (x_4^2 + y_4^2)(x_3(x_4 x_5 + y_4 y_5) + y_3(-x_4 y_5 + x_5 y_4)) + b_{0,0,0,0,-1,0,3,0,1,0}^r (x_3(x_4^3 x_5 - \\
& 3x_4^2 y_4 y_5 - 3x_4 x_5 y_4^2 + y_4^3 y_5) + y_3(x_4^3 y_5 + 3x_4^2 x_5 y_4 - 3x_4 y_4^2 y_5 - x_5 y_4^3)) + \\
& b_{0,0,0,0,-1,1,1,0,-1,0}^r (x_2^3 + y_2^3)(x_3(x_4 x_5 + y_4 y_5) + y_3(-x_4 y_5 + x_5 y_4)) + b_{0,0,0,0,-3,0,-1,0,1,0}^r (x_3(-3x_4 x_5 y_3^2 - \\
& 3y_3^2 y_4 y_5) + x_4(x_3^3 x_5 - y_3^3 y_5) + y_3(3x_3^2 x_4 y_5 - 3x_3^2 x_5 y_4) + y_4(x_3^3 y_5 + x_5 y_3^3)) + \\
& b_{0,0,0,0,1,0,-1,0,-1,1}^r (x_5^2 + y_5^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(x_4 y_5 + x_5 y_4)) + b_{0,0,0,0,1,0,-1,1,-1,0}^r (x_4^2 + \\
& y_4^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(x_4 y_5 + x_5 y_4)) + b_{0,0,0,0,1,0,1,0,1,1}^r (x_5^2 + y_5^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(-x_4 y_5 - \\
& x_5 y_4)) + b_{0,0,0,0,1,0,1,1,1,0}^r (x_4^2 + y_4^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(-x_4 y_5 - x_5 y_4)) + b_{0,0,0,0,1,1,-1,0,-1,0}^r (x_3^2 + \\
& y_3^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(x_4 y_5 + x_5 y_4)) + b_{0,0,0,0,1,1,1,0,1,0}^r (x_3^2 + y_3^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(-x_4 y_5 - \\
& x_5 y_4)) + b_{0,0,0,0,3,0,-1,0,1,0}^r (x_3(-3x_4 x_5 y_3^2 - 3y_3^2 y_4 y_5) + x_4(x_3^3 x_5 + y_3^3 y_5) + y_3(-3x_3^2 x_4 y_5 + \\
& 3x_3^2 x_5 y_4) + y_4(x_3^3 y_5 - x_5 y_3^3)) + b_{0,0,0,1,-1,0,1,0,-1,0}^r (x_2^2 + y_2^2)(x_3(x_4 x_5 + y_4 y_5) + y_3(-x_4 y_5 + \\
& x_5 y_4)) + b_{0,0,0,1,1,0,-1,0,-1,0}^r (x_2^2 + y_2^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(x_4 y_5 + x_5 y_4)) + b_{0,0,0,1,1,0,1,0,1,0}^r (x_2^2 + \\
& y_2^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(-x_4 y_5 - x_5 y_4)) + b_{0,0,1,0,-2,0,-2,0,0,0}^r (x_2(x_3^2 x_4^2 - x_3^2 y_4^2 - 4x_3 x_4 y_3 y_4 - \\
& x_4^2 y_3^2 + y_3^2 y_4^2) + y_2(2x_3^2 x_4 y_4 + 2x_3 x_4^2 y_3 - 2x_3 y_3 y_4^2 - 2x_4 y_3^2 y_4)) + \\
& b_{0,0,1,0,-2,0,0,0,2,0}^r (x_2(x_3^2 x_5^2 - x_3^2 y_5^2 + 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2) + y_2(-2x_3^2 x_5 y_5 + \\
& 2x_3 x_5^2 y_3 - 2x_3 y_3 y_5^2 + 2x_5 y_3^2 y_5)) + b_{0,0,1,0,-4,0,0,0,0,0}^r (x_2(x_3^4 - 6x_3^2 y_3^2 + y_3^4) + y_2(4x_3^3 y_3 - \\
& 4x_3 y_3^3)) + b_{0,0,1,0,0,0,-2,0,2,0}^r (x_2(x_4^2 x_5^2 - x_4^2 y_5^2 + 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2) + y_2(- \\
& 2x_2^2 x_5 y_5 + 2x_4 x_5^2 y_4 - 2x_4 y_4 y_5^2 + 2x_5 y_4^2 y_5)) + b_{0,0,1,0,0,0,-4,0,0,0}^r (x_2(x_4^4 - 6x_4^2 y_4^2 + y_4^4) + \\
& y_2(4x_4^3 y_4 - 4x_4 y_4^3)) + b_{0,0,1,0,0,0,0,0,-2,1}^r (x_5^2 + y_5^2)(x_2(x_5^2 - y_5^2) + 2x_5 y_2 y_5) + \\
& b_{0,0,1,0,0,0,0,0,4,0}^r (x_2(x_5^4 - 6x_5^2 y_5^2 + y_5^4) + y_2(-4x_5^3 y_5 + 4x_5 y_5^3)) + b_{0,0,1,0,0,0,0,1,-2,0}^r (x_4^2 + \\
& y_4^2)(x_2(x_5^2 - y_5^2) + 2x_5 y_2 y_5) + b_{0,0,1,0,0,0,2,0,0,1}^r (x_5^2 + y_5^2)(x_2(x_4^2 - y_4^2) - 2x_4 y_2 y_4) + \\
& b_{0,0,1,0,0,0,2,1,0,0}^r (x_4^2 + y_4^2)(x_2(x_4^2 - y_4^2) - 2x_4 y_2 y_4) + b_{0,0,1,0,0,1,0,0,-2,0}^r (x_3^2 + y_3^2)(x_2(x_5^2 - y_5^2) + \\
& 2x_5 y_2 y_5) + b_{0,0,1,0,0,1,2,0,0,0}^r (x_3^2 + y_3^2)(x_2(x_4^2 - y_4^2) - 2x_4 y_2 y_4) + b_{0,0,1,0,2,0,0,0,0,1}^r (x_5^2 + \\
& y_5^2)(x_2(x_3^2 - y_3^2) - 2x_3 y_2 y_3) + b_{0,0,1,0,2,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_2(x_3^2 - y_3^2) - 2x_3 y_2 y_3) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2(x_3^2 - y_3^2) - 2x_3y_2y_3) + b_{0,0,1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2(x_5^2 - y_5^2) + \\
& 2x_5y_2y_5) + b_{0,0,1,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) + b_{0,0,1,1,2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_2(x_3^2 - y_3^2) - 2x_3y_2y_3) + b_{0,0,2,0,-1,0,-1,0,1,0}^r(x_2(-2x_3x_4y_2y_5 + 2x_3x_5y_2y_4 + 2x_4x_5y_2y_3 + \\
& 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 + x_2^2y_4y_5 - x_4x_5y_2^2 - y_2^2y_4y_5) + y_3(x_2^2x_4y_5 - x_2^2x_5y_4 - \\
& x_4y_2^2y_5 + x_5y_2^2y_4)) + b_{0,0,2,0,1,0,1,0,-1,0}^r(x_2(2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 - \\
& 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 + x_2^2y_4y_5 - x_4x_5y_2^2 - y_2^2y_4y_5) + y_3(x_2^2x_4y_5 - x_2^2x_5y_4 - \\
& x_4y_2^2y_5 + x_5y_2^2y_4)) + b_{0,0,3,0,-2,0,0,0,0,0}^r(x_2^3x_3^2 - x_2^3y_3^2 + 6x_2^2x_3y_2y_3 + x_2(-3x_3^2y_2^2 + \\
& 3y_2^2y_3^2) - 2x_3y_2^3y_3) + b_{0,0,3,0,0,0,-2,0,0,0}^r(x_2^3x_4^2 - x_2^3y_4^2 + 6x_2^2x_4y_2y_4 + x_2(-3x_4^2y_2^2 + \\
& 3y_2^2y_4^2) - 2x_4y_2^3y_4) + b_{0,0,3,0,0,0,0,2,0}^r(x_2^3x_5^2 - x_2^3y_5^2 - 6x_2^2x_5y_2y_5 + x_2(-3x_5^2y_2^2 + \\
& 3y_2^2y_5^2) + 2x_5y_2^3y_5) + b_{0,0,5,0,0,0,0,0,0}^r(x_2^4 - 10x_2^2y_2^2 + 5y_2^4) + b_{0,1,-1,0,0,0,0,0,1}^r(x_2(x_1^2 + \\
& y_1^2)(x_5^2 + y_5^2) + b_{0,1,-1,0,0,0,0,1,0,0}^r(x_2(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{0,1,-1,0,0,1,0,0,0,0}^r(x_2(x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2) + b_{0,1,-1,1,0,0,0,0,0,0}^r(x_2(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,0,0,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4x_5 + y_4y_5) + y_3(- \\
& x_4y_5 + x_5y_4)) + b_{0,1,0,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) + b_{0,1,0,0,1,0,1,0,1,0}^r(x_1^2 + \\
& y_1^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) + b_{0,1,1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) + \\
& b_{0,1,1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) + b_{0,1,1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_3^2 - y_3^2) - \\
& 2x_3y_2y_3) + b_{0,2,-1,0,0,0,0,0,0,0}^r(x_2(x_1^2 + y_1^2)^2 + b_{1,0,-1,0,-1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - \\
& x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) + \\
& b_{1,0,-1,0,1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + \\
& x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4)) + b_{1,0,-1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) + \\
& b_{1,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) + b_{1,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2^2 - y_2^2) + \\
& 2x_2y_1y_2) + b_{1,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) + b_{1,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) + b_{1,0,0,0,-2,0,-2,0,0,0}^r(x_1(x_3^2x_4^2 - x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + \\
& y_3^2y_4^2) + y_1(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) + b_{1,0,0,0,-2,0,0,0,2,0}^r(x_1(x_3^2x_5^2 - \\
& x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_1(-2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 + \\
& 2x_5y_3^2y_5)) + b_{1,0,0,0,-4,0,0,0,0,0}^r(x_1(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_1(4x_3^3y_3 - 4x_3y_3^3)) + \\
& b_{1,0,0,0,0,0,-2,0,2,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_1(-2x_4^2x_5y_5 + \\
& 2x_4x_5^2y_4 - 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) + b_{1,0,0,0,0,0,-4,0,0,0}^r(x_1(x_4^4 - 6x_4^2y_4^2 + y_4^4) + y_1(4x_4^3y_4 - \\
& 4x_4y_4^3)) + b_{1,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_5^2 - y_5^2) + 2x_5y_1y_5) + b_{1,0,0,0,0,0,0,0,4,0}^r(x_1(x_5^4 - \\
& 6x_5^2y_5^2 + y_5^4) + y_1(-4x_5^3y_5 + 4x_5y_5^3)) + b_{1,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1(x_5^2 - y_5^2) + 2x_5y_1y_5) + \\
& b_{1,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) + b_{1,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_4^2 - y_4^2) - \\
& 2x_4y_1y_4) + b_{1,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1(x_5^2 - y_5^2) + 2x_5y_1y_5) + b_{1,0,0,0,0,1,2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) + b_{1,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) + \\
& b_{1,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) + b_{1,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_3^2 - y_3^2) - \\
& 2x_3y_1y_3) + b_{1,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1(x_5^2 - y_5^2) + 2x_5y_1y_5) + b_{1,0,0,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) + b_{1,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) + \\
& b_{1,0,1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + \\
& x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 - \\
& x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) + b_{1,0,1,0,1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 -
\end{aligned}$$

$$\begin{aligned}
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) + \\
& b_{1,0,2,0,-2,0,0,0,0}^r(x_1(x_2^2x_3^2 - x_2^2y_3^2 + 4x_2x_3y_2y_3 - x_3^2y_2^2 + y_2^2y_3^2) + y_1(2x_2^2x_3y_3 - \\
& 2x_2x_3^2y_2 + 2x_2y_2y_3^2 - 2x_3y_2^2y_3)) + b_{1,0,2,0,0,0,-2,0,0,0}^r(x_1(x_2^2x_4^2 - x_2^2y_4^2 + 4x_2x_4y_2y_4 - \\
& x_4^2y_2^2 + y_2^2y_4^2) + y_1(2x_2^2x_4y_4 - 2x_2x_4^2y_2 + 2x_2y_2y_4^2 - 2x_4y_2^2y_4)) + \\
& b_{1,0,2,0,0,0,0,0,2,0}^r(x_1(x_2^2x_5^2 - x_2^2y_5^2 - 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2) + y_1(-2x_2^2x_5y_5 - \\
& 2x_2x_5^2y_2 + 2x_2y_2y_5^2 + 2x_5y_2^2y_5)) + b_{1,0,4,0,0,0,0,0,0,0}^r(x_1(x_2^4 - 6x_2^2y_2^2 + y_2^4) + y_1(-4x_2^3y_2 + \\
& 4x_2y_2^3)) + b_{1,1,-2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2^2 - y_2^2) + 2x_2y_1y_2) + b_{1,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + \\
& y_1^2)(x_1(x_5^2 - y_5^2) + 2x_5y_1y_5) + b_{1,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_4^2 - y_4^2) - 2x_4y_1y_4) + \\
& b_{1,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3^2 - y_3^2) - 2x_3y_1y_3) + b_{2,0,-1,0,0,0,0,0,-2,0}^r(x_1(4x_2x_5y_1y_5 + \\
& 2x_5^2y_1y_2 - 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2) + y_2(-2x_1^2x_5y_5 + \\
& 2x_5y_1^2y_5)) + b_{2,0,-1,0,0,0,2,0,0,0}^r(x_1(-4x_2x_4y_1y_4 + 2x_4^2y_1y_2 - 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - \\
& x_4^2y_1^2 + y_1^2y_4^2) + y_2(2x_1^2x_4y_4 - 2x_4y_1^2y_4)) + b_{2,0,-1,0,2,0,0,0,0,0}^r(x_1(-4x_2x_3y_1y_3 + 2x_3^2y_1y_2 - \\
& 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(2x_1^2x_3y_3 - 2x_3y_1^2y_3)) + \\
& b_{2,0,-3,0,0,0,0,0,0,0}^r(x_1^2x_3^2 + x_1(6x_2^2y_1y_2 - 2y_1y_3^2) - x_3^2y_1^2 + x_2(-3x_1^2y_2^2 + 3y_1^2y_2^2)) + \\
& b_{2,0,0,0,-1,0,-1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 + 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 + \\
& x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4)) + \\
& b_{2,0,0,0,1,0,1,0,-1,0}^r(x_1(2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 + \\
& x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4)) + \\
& b_{2,0,1,0,-2,0,0,0,0,0}^r(x_1(4x_2x_3y_1y_3 - 2x_3^2y_1y_2 + 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + \\
& y_1^2y_3^2) + y_2(2x_1^2x_3y_3 - 2x_3y_1^2y_3)) + b_{2,0,1,0,0,0,-2,0,0,0}^r(x_1(4x_2x_4y_1y_4 - 2x_4^2y_1y_2 + \\
& 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2) + y_2(2x_1^2x_4y_4 - 2x_4y_1^2y_4)) + \\
& b_{2,0,1,0,0,0,0,0,2,0}^r(x_1(-4x_2x_5y_1y_5 - 2x_5^2y_1y_2 + 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + \\
& y_1^2y_5^2) + y_2(-2x_1^2x_5y_5 + 2x_5y_1^2y_5)) + b_{2,0,3,0,0,0,0,0,0,0}^r(x_1^2x_3^2 + x_1(-6x_2^2y_1y_2 + 2y_1y_3^2) - \\
& x_3^2y_1^2 + x_2(-3x_1^2y_2^2 + 3y_1^2y_2^2)) + b_{3,0,0,0,-2,0,0,0,0,0}^r(x_1^3x_3^2 - x_1^3y_3^2 + 6x_1^2x_3y_1y_3 + x_1(- \\
& 3x_2^2y_1^2 + 3y_1^2y_3^2) - 2x_3y_1^3y_3) + b_{3,0,0,0,0,0,-2,0,0,0}^r(x_1^3x_4^2 - x_1^3y_4^2 + 6x_1^2x_4y_1y_4 + x_1(- \\
& 3x_2^2y_1^2 + 3y_1^2y_4^2) - 2x_4y_1^3y_4) + b_{3,0,0,0,0,0,0,0,2,0}^r(x_1^3x_5^2 - x_1^3y_5^2 - 6x_1^2x_5y_1y_5 + x_1(- \\
& 3x_2^2y_1^2 + 3y_1^2y_5^2) + 2x_5y_1^3y_5) + b_{3,0,2,0,0,0,0,0,0,0}^r(x_1^3x_2^2 - x_1^3y_2^2 - 6x_1^2x_2y_1y_2 + x_1(- \\
& 3x_2^2y_1^2 + 3y_1^2y_2^2) + 2x_2y_1^3y_2) + b_{4,0,1,0,0,0,0,0,0,0}^r(-4x_1^3y_1y_2 + 4x_1y_1^3y_2 + x_2(x_1^4 - \\
& 6x_1^2y_1^2 + y_1^4)) + b_{5,0,0,0,0,0,0,0,0,0}^r(x_1(x_1^4 - 10x_1^2y_1^2 + 5y_1^4))
\end{aligned}$$

$$\begin{aligned}
H_{XY}^{(5)} = & b_{-1,0,-1,0,-1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5)) - b_{-1,0,-1,0,-1,0,1,0,1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + \\
& x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) - \\
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 + \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5)) + b_{-1,0,-2,0,-2,0,0,0,0,0}^r(x_1(2x_2^2x_3y_3 + 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - \\
& 2x_3y_2^2y_3) + y_1(x_2^2x_3^2 - x_2^2y_3^2 - 4x_2x_3y_2y_3 - x_3^2y_2^2 + y_2^2y_3^2)) + \\
& b_{-1,0,-2,0,0,0,-2,0,0,0}^r(x_1(2x_2^2x_4y_4 + 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - 2x_4y_2^2y_4) + y_1(x_2^2x_4^2 - x_2^2y_4^2 - \\
& 4x_2x_4y_2y_4 - x_4^2y_2^2 + y_2^2y_4^2)) - b_{-1,0,-2,0,0,0,0,0,2,0}^r(x_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - \\
& 2x_5y_2^2y_5) + y_1(-x_2^2x_5^2 + x_2^2y_5^2 - 4x_2x_5y_2y_5 + x_5^2y_2^2 - y_2^2y_5^2)) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r(x_1(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_1(x_3^2x_5^2 - x_3^2y_5^2 - \\
& 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) - b_{-1,0,0,0,-2,0,2,0,0,0}^r(x_1(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_1(-x_3^2x_4^2 + x_3^2y_4^2 - 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) + \\
& b_{-1,0,0,0,0,0,-2,0,-2,0}^r(x_1(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_1(x_4^2x_5^2 - x_4^2y_5^2 - \\
& 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + b_{-1,0,0,0,0,0,0,0,0,2}^r y_1(x_5^2 + y_5^2)^2 + b_{-1,0,0,0,0,0,0,1,0,1}^r y_1(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,0,2,0,0}^r y_1(x_4^2 + y_4^2)^2 - b_{-1,0,0,0,0,0,2,0,2,0}^r(x_1(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - \\
& 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_1(-x_4^2x_5^2 + x_4^2y_5^2 + 4x_4x_5y_4y_5 + x_5^2y_4^2 - y_4^2y_5^2)) + \\
& b_{-1,0,0,0,0,1,0,0,0,1}^r y_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,1,0,1,0,0}^r y_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& b_{-1,0,0,0,0,2,0,0,0,0}^r y_1(x_3^2 + y_3^2)^2 + b_{-1,0,0,0,2,0,-2,0,0,0}^r(x_1(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_1(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2)) - \\
& b_{-1,0,0,0,2,0,0,0,0,2,0}^r(x_1(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_1(-x_3^2x_5^2 + x_3^2y_5^2 + \\
& 4x_3x_5y_3y_5 + x_5^2y_3^2 - y_3^2y_5^2)) + b_{-1,0,0,1,0,0,0,0,0,1}^r y_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) + \\
& b_{-1,0,0,1,0,0,0,1,0,0}^r y_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{-1,0,0,1,0,1,0,0,0,0}^r y_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) + \\
& b_{-1,0,0,2,0,0,0,0,0,0}^r y_1(x_2^2 + y_2^2)^2 + b_{-1,0,1,0,-1,0,1,0,-1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + \\
& x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) + \\
& b_{-1,0,1,0,1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5)) - b_{-1,0,1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - \\
& x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) + \\
& b_{-1,0,2,0,0,0,0,0,-2,0}^r(x_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - 2x_5y_2^2y_5) + y_1(x_2^2x_5^2 - x_2^2y_5^2 + \\
& 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2)) - b_{-1,0,2,0,0,0,0,2,0,0}^r(x_1(2x_2^2x_4y_4 + 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - \\
& 2x_4y_2^2y_4) + y_1(-x_2^2x_4^2 + x_2^2y_4^2 + 4x_2x_4y_2y_4 + x_4^2y_2^2 - y_2^2y_4^2)) - \\
& b_{-1,0,2,0,2,0,0,0,0,0}^r(x_1(2x_2^2x_3y_3 + 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - 2x_3y_2^2y_3) + y_1(-x_2^2x_3^2 + x_2^2y_3^2 + \\
& 4x_2x_3y_2y_3 + x_3^2y_2^2 - y_2^2y_3^2)) + b_{-1,1,0,0,0,0,0,0,0,1}^r y_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) + \\
& b_{-1,1,0,0,0,0,0,1,0,0}^r y_1(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{-1,1,0,0,0,1,0,0,0,0}^r y_1(x_1^2 + y_1^2)(x_3^2 + y_3^2) + \\
& b_{-1,1,0,1,0,0,0,0,0,0}^r y_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{-1,2,0,0,0,0,0,0,0,0}^r y_1(x_1^2 + y_1^2)^2 + \\
& b_{-2,0,-1,0,-2,0,0,0,0,0}^r(x_1(2x_2x_3^2y_1 - 2x_2y_1y_3^2 - 4x_3y_1y_2y_3) + x_2(2x_1^2x_3y_3 - 2x_3y_1^2y_3) + \\
& y_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2)) + b_{-2,0,-1,0,0,0,-2,0,0,0}^r(x_1(2x_2x_4^2y_1 - 2x_2y_1y_4^2 - \\
& 4x_4y_1y_2y_4) + x_2(2x_1^2x_4y_4 - 2x_4y_1^2y_4) + y_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2)) - \\
& b_{-2,0,-1,0,0,0,0,0,2,0}^r(x_1(-2x_2x_5^2y_1 + 2x_2y_1y_5^2 - 4x_5y_1y_2y_5) + x_2(2x_1^2x_5y_5 - 2x_5y_1^2y_5) + y_2(- \\
& x_1^2x_5^2 + x_1^2y_5^2 + x_5^2y_1^2 - y_1^2y_5^2)) + b_{-2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 - \\
& 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4) + y_3(x_1^2x_4x_5 - \\
& x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5)) - b_{-2,0,0,0,-1,0,1,0,1,0}^r(x_1(-2x_3x_4x_5y_1 + 2x_3y_1y_4y_5 - 2x_4y_1y_3y_5 - \\
& 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 + x_1^2y_4y_5 + \\
& x_4x_5y_1^2 - y_1^2y_4y_5)) - b_{-2,0,0,0,1,0,-1,0,1,0}^r(x_1(-2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 + 2x_4y_1y_3y_5 - \\
& 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(x_1^2x_4x_5 + x_1^2y_4y_5 - \\
& x_4x_5y_1^2 - y_1^2y_4y_5)) - b_{-2,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) - \\
& b_{-2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) - b_{-2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(-2x_1x_2y_1 + \\
& y_2(x_1^2 - y_1^2)) - b_{-2,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) - b_{-2,1,1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + b_{-3,0,0,0,-2,0,0,0,0,0}^r(2x_1^3x_3y_3 - 6x_1x_3y_1^2y_3 - x_3^2y_1^3 + \\
& y_1^3y_3^2 + y_1(3x_1^2x_3^2 - 3x_1^2y_3^2)) + b_{-3,0,0,0,0,0,-2,0,0,0}^r(2x_1^3x_4y_4 - 6x_1x_4y_1^2y_4 - x_4^2y_1^3 +
\end{aligned}$$

$$\begin{aligned}
& y_1^3 y_4^2 + y_1(3x_1^2 x_4^2 - 3x_1^2 y_4^2) - b_{-3,0,0,0,0,0,0,0,2,0}^r(2x_1^3 x_5 y_5 - 6x_1 x_5 y_1^2 y_5 + x_5^2 y_1^3 - \\
& y_1^3 y_5^2 + y_1(-3x_1^2 x_5^2 + 3x_1^2 y_5^2) - b_{-3,0,2,0,0,0,0,0,0,0}^r(2x_1^3 x_2 y_2 - 6x_1 x_2 y_1^2 y_2 + x_2^2 y_1^3 - \\
& y_1^3 y_2^2 + y_1(-3x_1^2 x_2^2 + 3x_1^2 y_2^2) + b_{0,0,-1,0,-2,0,0,0,-2,0}^r(x_2(2x_3^2 x_5 y_5 + 2x_3 x_5^2 y_3 - 2x_3 y_3 y_5^2 - \\
& 2x_5 y_3^2 y_5) + y_2(x_3^2 x_5^2 - x_3^2 y_5^2 - 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2)) - \\
& b_{0,0,-1,0,-2,0,2,0,0,0}^r(x_2(2x_3^2 x_4 y_4 - 2x_3 x_4^2 y_3 + 2x_3 y_3 y_4^2 - 2x_4 y_3^2 y_4) + y_2(-x_3^2 x_4^2 + x_3^2 y_4^2 - \\
& 4x_3 x_4 y_3 y_4 + x_4^2 y_3^2 - y_3^2 y_4^2)) + b_{0,0,-1,0,0,0,-2,0,-2,0}^r(x_2(2x_4^2 x_5 y_5 + 2x_4 x_5^2 y_4 - 2x_4 y_4 y_5^2 - \\
& 2x_5 y_4^2 y_5) + y_2(x_4^2 x_5^2 - x_4^2 y_5^2 - 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2)) + \\
& b_{0,0,-1,0,0,0,0,0,2}^r y_2(x_5^2 + y_5^2)^2 + b_{0,0,-1,0,0,0,0,1,0,1}^r y_2(x_4^2 + y_4^2)(x_5^2 + y_5^2) + \\
& b_{0,0,-1,0,0,0,0,2,0,0}^r y_2(x_4^2 + y_4^2)^2 - b_{0,0,-1,0,0,0,2,0,2,0}^r(x_2(2x_4^2 x_5 y_5 + 2x_4 x_5^2 y_4 - 2x_4 y_4 y_5^2 - \\
& 2x_5 y_4^2 y_5) + y_2(-x_4^2 x_5^2 + x_4^2 y_5^2 + 4x_4 x_5 y_4 y_5 + x_5^2 y_4^2 - y_4^2 y_5^2)) + \\
& b_{0,0,-1,0,0,1,0,0,0,1}^r y_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,-1,0,0,1,0,1,0,0}^r y_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& b_{0,0,-1,0,0,2,0,0,0,0}^r y_2(x_3^2 + y_3^2)^2 + b_{0,0,-1,0,2,0,-2,0,0,0}^r(x_2(2x_3^2 x_4 y_4 - 2x_3 x_4^2 y_3 + 2x_3 y_3 y_4^2 - \\
& 2x_4 y_3^2 y_4) + y_2(x_3^2 x_4^2 - x_3^2 y_4^2 + 4x_3 x_4 y_3 y_4 - x_4^2 y_3^2 + y_3^2 y_4^2)) - \\
& b_{0,0,-1,0,2,0,0,0,2,0}^r(x_2(2x_3^2 x_5 y_5 + 2x_3 x_5^2 y_3 - 2x_3 y_3 y_5^2 - 2x_5 y_3^2 y_5) + y_2(-x_3^2 x_5^2 + x_3^2 y_5^2 + \\
& 4x_3 x_5 y_3 y_5 + x_5^2 y_3^2 - y_3^2 y_5^2)) + b_{0,0,-1,1,0,0,0,0,1}^r y_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) + \\
& b_{0,0,-1,1,0,0,0,1,0,0}^r y_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{0,0,-1,1,0,1,0,0,0,0}^r y_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) + \\
& b_{0,0,-1,2,0,0,0,0,0,0}^r y_2(x_2^2 + y_2^2)^2 + b_{0,0,-2,0,-1,0,-1,0,-1,0}^r(x_2(2x_3 x_4 x_5 y_2 - 2x_3 y_2 y_4 y_5 - 2x_4 y_2 y_3 y_5 - \\
& 2x_5 y_2 y_3 y_4) + x_3(x_2^2 x_4 y_5 + x_2^2 x_5 y_4 - x_4 y_2^2 y_5 - x_5 y_2^2 y_4) + y_3(x_2^2 x_4 x_5 - x_2^2 y_4 y_5 - \\
& x_4 x_5 y_2^2 + y_2^2 y_4 y_5)) - b_{0,0,-2,0,-1,0,1,0,1,0}^r(x_2(-2x_3 x_4 x_5 y_2 + 2x_3 y_2 y_4 y_5 - 2x_4 y_2 y_3 y_5 - \\
& 2x_5 y_2 y_3 y_4) + x_3(x_2^2 x_4 y_5 + x_2^2 x_5 y_4 - x_4 y_2^2 y_5 - x_5 y_2^2 y_4) + y_3(-x_2^2 x_4 x_5 + x_2^2 y_4 y_5 + \\
& x_4 x_5 y_2^2 - y_2^2 y_4 y_5)) - b_{0,0,-2,0,1,0,-1,0,1,0}^r(x_2(-2x_3 x_4 x_5 y_2 - 2x_3 y_2 y_4 y_5 + 2x_4 y_2 y_3 y_5 - \\
& 2x_5 y_2 y_3 y_4) + x_3(x_2^2 x_4 y_5 - x_2^2 x_5 y_4 - x_4 y_2^2 y_5 + x_5 y_2^2 y_4) + y_3(x_2^2 x_4 x_5 + x_2^2 y_4 y_5 - \\
& x_4 x_5 y_2^2 - y_2^2 y_4 y_5)) + b_{0,0,-3,0,-2,0,0,0,0,0}^r(2x_2^3 x_3 y_3 - 6x_2 x_3 y_2^2 y_3 - x_3^2 y_2^3 + y_2^3 y_3^2 + \\
& y_2(3x_2^2 x_3^2 - 3x_2^2 y_3^2)) + b_{0,0,-3,0,0,0,-2,0,0,0}^r(2x_2^3 x_4 y_4 - 6x_2 x_4 y_2^2 y_4 - x_4^2 y_2^3 + y_2^3 y_4^2 + \\
& y_2(3x_2^2 x_4^2 - 3x_2^2 y_4^2)) - b_{0,0,-3,0,0,0,0,0,2,0}^r(2x_2^3 x_5 y_5 - 6x_2 x_5 y_2^2 y_5 + x_5^2 y_2^3 - y_2^3 y_5^2 + y_2(- \\
& 3x_2^2 x_5^2 + 3x_2^2 y_5^2)) + b_{0,0,0,0,-1,0,-1,0,-3,0}^r(x_3(3x_4 x_5^2 y_5 - x_4 y_5^3 + x_5^3 y_4 - 3x_5 y_4 y_5^2) + \\
& y_3(x_4 x_5^3 - 3x_4 x_5 y_5^2 - 3x_5^2 y_4 y_5 + y_4 y_5^3)) - b_{0,0,0,0,-1,0,-1,0,3,0}^r(x_3(3x_4 x_5^2 y_5 - x_4 y_5^3 - x_5^3 y_4 + \\
& 3x_5 y_4 y_5^2) + y_3(-x_4 x_5^3 + 3x_4 x_5 y_5^2 - 3x_5^2 y_4 y_5 + y_4 y_5^3)) - b_{0,0,0,0,-1,0,-3,0,1,0}^r(x_3(x_4^3 y_5 - \\
& 3x_4^2 x_5 y_4 - 3x_4 y_4^2 y_5 + x_5 y_4^3) + y_3(-x_4^3 x_5 - 3x_4^2 y_4 y_5 + 3x_4 x_5 y_4^2 + y_4^3 y_5)) + \\
& b_{0,0,0,0,-1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4 y_5 - x_5 y_4) + y_3(x_4 x_5 + y_4 y_5)) + b_{0,0,0,0,-1,0,1,1,-1,0}^r(x_4^2 + \\
& y_4^2)(x_3(x_4 y_5 - x_5 y_4) + y_3(x_4 x_5 + y_4 y_5)) - b_{0,0,0,0,-1,0,3,0,1,0}^r(x_3(x_4^3 y_5 + 3x_4^2 x_5 y_4 - 3x_4 y_4^2 y_5 - \\
& x_5 y_4^3) + y_3(-x_4^3 x_5 + 3x_4^2 y_4 y_5 + 3x_4 x_5 y_4^2 - y_4^3 y_5)) + b_{0,0,0,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4 y_5 - \\
& x_5 y_4) + y_3(x_4 x_5 + y_4 y_5)) - b_{0,0,0,0,-3,0,-1,0,1,0}^r(x_3(-3x_4 y_3^2 y_5 + 3x_5 y_3^2 y_4) + x_4(x_3^3 y_5 + x_5 y_3^3) + y_3(- \\
& 3x_3^2 x_4 x_5 - 3x_3^2 y_4 y_5) + y_4(-x_3^3 x_5 + y_3^3 y_5)) + b_{0,0,0,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4 y_5 + x_5 y_4) + \\
& y_3(-x_4 x_5 + y_4 y_5)) + b_{0,0,0,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4 y_5 + x_5 y_4) + y_3(-x_4 x_5 + y_4 y_5)) - \\
& b_{0,0,0,0,1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_3(x_4 y_5 + x_5 y_4) + y_3(x_4 x_5 - y_4 y_5)) - b_{0,0,0,0,1,0,1,1,1,0}^r(x_4^2 + \\
& y_4^2)(x_3(x_4 y_5 + x_5 y_4) + y_3(x_4 x_5 - y_4 y_5)) + b_{0,0,0,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4 y_5 + x_5 y_4) + y_3(- \\
& x_4 x_5 + y_4 y_5)) - b_{0,0,0,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_3(x_4 y_5 + x_5 y_4) + y_3(x_4 x_5 - y_4 y_5)) - b_{0,0,0,0,3,0,-1,0,1,0}^r(x_3(- \\
& 3x_4 y_3^2 y_5 + 3x_5 y_3^2 y_4) + x_4(x_3^3 y_5 - x_5 y_3^3) + y_3(3x_3^2 x_4 x_5 + 3x_3^2 y_4 y_5) + y_4(-x_3^3 x_5 - \\
& y_3^3 y_5)) + b_{0,0,0,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4 y_5 - x_5 y_4) + y_3(x_4 x_5 + y_4 y_5)) + b_{0,0,0,1,1,0,-1,0,-1,0}^r(x_2^2 + \\
& y_2^2)(x_3(x_4 y_5 + x_5 y_4) + y_3(-x_4 x_5 + y_4 y_5)) - b_{0,0,0,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_3(x_4 y_5 + x_5 y_4) + y_3(x_4 x_5 - \\
& y_4 y_5)) + b_{0,0,1,0,-2,0,-2,0,0,0}^r(x_2(2x_3^2 x_4 y_4 + 2x_3 x_4^2 y_3 - 2x_3 y_3 y_4^2 - 2x_4 y_3^2 y_4) + y_2(-x_3^2 x_4^2 +
\end{aligned}$$

$$\begin{aligned}
& x_3^2 y_4^2 + 4x_3 x_4 y_3 y_4 + x_4^2 y_3^2 - y_3^2 y_4^2) - b_{0,0,1,0,-2,0,0,0,2,0}^r (x_2(2x_3^2 x_5 y_5 - 2x_3 x_5^2 y_3 + \\
& 2x_3 y_3 y_5^2 - 2x_5 y_3^2 y_5) + y_2(x_3^2 x_5^2 - x_3^2 y_5^2 + 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2)) + \\
& b_{0,0,1,0,-4,0,0,0,0,0}^r (x_2(4x_3^3 y_3 - 4x_3 y_3^3) + y_2(-x_3^4 + 6x_3^2 y_3^2 - y_3^4)) - \\
& b_{0,0,1,0,0,0,-2,0,2,0}^r (x_2(2x_4^2 x_5 y_5 - 2x_4 x_5^2 y_4 + 2x_4 y_4 y_5^2 - 2x_5 y_4^2 y_5) + y_2(x_4^2 x_5^2 - x_4^2 y_5^2 + \\
& 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2)) + b_{0,0,1,0,0,0,-4,0,0,0}^r (x_2(4x_4^3 y_4 - 4x_4 y_4^3) + y_2(-x_4^4 + 6x_4^2 y_4^2 - \\
& y_4^4)) + b_{0,0,1,0,0,0,0,0,-2,1}^r (x_5^2 + y_5^2)(2x_2 x_5 y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,0,1,0,0,0,0,0,4,0}^r (x_2(4x_3^3 y_5 - \\
& 4x_5 y_3^3) + y_2(x_5^4 - 6x_5^2 y_5^2 + y_5^4)) + b_{0,0,1,0,0,0,0,1,-2,0}^r (x_4^2 + y_4^2)(2x_2 x_5 y_5 + y_2(-x_5^2 + y_5^2)) - \\
& b_{0,0,1,0,0,0,2,0,0,1}^r (x_5^2 + y_5^2)(2x_2 x_4 y_4 + y_2(x_4^2 - y_4^2)) - b_{0,0,1,0,0,0,2,1,0,0}^r (x_4^2 + y_4^2)(2x_2 x_4 y_4 + \\
& y_2(x_4^2 - y_4^2)) + b_{0,0,1,0,0,1,0,0,-2,0}^r (x_3^2 + y_3^2)(2x_2 x_5 y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,0,1,0,0,1,2,0,0,0}^r (x_3^2 + \\
& y_3^2)(2x_2 x_4 y_4 + y_2(x_4^2 - y_4^2)) - b_{0,0,1,0,2,0,0,0,0,1}^r (x_5^2 + y_5^2)(2x_2 x_3 y_3 + y_2(x_3^2 - y_3^2)) - \\
& b_{0,0,1,0,2,0,0,1,0,0}^r (x_4^2 + y_4^2)(2x_2 x_3 y_3 + y_2(x_3^2 - y_3^2)) - b_{0,0,1,0,2,1,0,0,0,0}^r (x_3^2 + y_3^2)(2x_2 x_3 y_3 + \\
& y_2(x_3^2 - y_3^2)) + b_{0,0,1,1,0,0,0,0,-2,0}^r (x_2^2 + y_2^2)(2x_2 x_5 y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,0,1,1,0,0,2,0,0,0}^r (x_2^2 + \\
& y_2^2)(2x_2 x_4 y_4 + y_2(x_4^2 - y_4^2)) - b_{0,0,1,1,2,0,0,0,0,0}^r (x_2^2 + y_2^2)(2x_2 x_3 y_3 + y_2(x_3^2 - y_3^2)) - \\
& b_{0,0,2,0,-1,0,-1,0,1,0}^r (x_2(2x_3 x_4 x_5 y_2 + 2x_3 y_2 y_4 y_5 + 2x_4 y_2 y_3 y_5 - 2x_5 y_2 y_3 y_4) + x_3(x_2^2 x_4 y_5 - \\
& x_2^2 x_5 y_4 - x_4 y_2^2 y_5 + x_5 y_2^2 y_4) + y_3(-x_2^2 x_4 x_5 - x_2^2 y_4 y_5 + x_4 x_5 y_2^2 + y_2^2 y_4 y_5)) + \\
& b_{0,0,2,0,1,0,1,0,-1,0}^r (x_2(-2x_3 x_4 x_5 y_2 - 2x_3 y_2 y_4 y_5 - 2x_4 y_2 y_3 y_5 + 2x_5 y_2 y_3 y_4) + x_3(x_2^2 x_4 y_5 - \\
& x_2^2 x_5 y_4 - x_4 y_2^2 y_5 + x_5 y_2^2 y_4) + y_3(-x_2^2 x_4 x_5 - x_2^2 y_4 y_5 + x_4 x_5 y_2^2 + y_2^2 y_4 y_5)) + \\
& b_{0,0,3,0,-2,0,0,0,0,0}^r (2x_2^3 x_3 y_3 - 6x_2 x_3 y_2^2 y_3 + x_3^2 y_2^3 - y_2^3 y_3^2 + y_2(-3x_2^2 x_3^2 + 3x_2^2 y_3^2)) + \\
& b_{0,0,3,0,0,0,-2,0,0,0}^r (2x_2^3 x_4 y_4 - 6x_2 x_4 y_2^2 y_4 + x_4^2 y_2^3 - y_2^3 y_4^2 + y_2(-3x_2^2 x_4^2 + 3x_2^2 y_4^2)) - \\
& b_{0,0,3,0,0,0,0,0,2,0}^r (2x_2^3 x_5 y_5 - 6x_2 x_5 y_2^2 y_5 - x_5^2 y_2^3 + y_2^3 y_5^2 + y_2(3x_2^2 x_5^2 - 3x_2^2 y_5^2)) - \\
& b_{0,0,5,0,0,0,0,0,0,0}^r y_2(5x_2^4 - 10x_2^2 y_2^2 + y_2^4) + b_{0,1,-1,0,0,0,0,0,1}^r y_2(x_1^2 + y_1^2)(x_5^2 + y_5^2) + \\
& b_{0,1,-1,0,0,0,0,1,0,0}^r y_2(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{0,1,-1,0,0,1,0,0,0,0}^r y_2(x_1^2 + y_1^2)(x_3^2 + y_3^2) + \\
& b_{0,1,-1,1,0,0,0,0,0,0}^r y_2(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,0,0,-1,0,1,0,-1,0}^r (x_1^2 + y_1^2)(x_3(x_4 y_5 - x_5 y_4) + y_3(x_4 x_5 + \\
& y_4 y_5)) + b_{0,1,0,0,1,0,-1,0,-1,0}^r (x_1^2 + y_1^2)(x_3(x_4 y_5 + x_5 y_4) + y_3(-x_4 x_5 + y_4 y_5)) - b_{0,1,0,0,1,0,1,0,1,0}^r (x_1^2 + \\
& y_1^2)(x_3(x_4 y_5 + x_5 y_4) + y_3(x_4 x_5 - y_4 y_5)) + b_{0,1,1,0,0,0,0,0,-2,0}^r (x_1^2 + y_1^2)(2x_2 x_5 y_5 + y_2(-x_5^2 + y_5^2)) - \\
& b_{0,1,1,0,0,0,2,0,0,0}^r (x_1^2 + y_1^2)(2x_2 x_4 y_4 + y_2(x_4^2 - y_4^2)) - b_{0,1,1,0,2,0,0,0,0,0}^r (x_1^2 + y_1^2)(2x_2 x_3 y_3 + \\
& y_2(x_3^2 - y_3^2)) + b_{0,2,-1,0,0,0,0,0,0,0}^r y_2(x_1^2 + y_1^2)^2 + b_{1,0,-1,0,-1,0,1,0,-1,0}^r (x_1(x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + y_1(-x_2 x_3 x_4 x_5 - \\
& x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5)) + \\
& b_{1,0,-1,0,1,0,-1,0,-1,0}^r (x_1(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + \\
& x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + y_1(-x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + \\
& x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5)) - b_{1,0,-1,0,1,0,1,0,1,0}^r (x_1(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 - \\
& x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + y_1(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 - \\
& x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5)) + \\
& b_{1,0,-2,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(2x_1 x_2 y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,-2,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(2x_1 x_2 y_2 + y_1(- \\
& x_2^2 + y_2^2)) + b_{1,0,-2,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(2x_1 x_2 y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,-2,1,0,0,0,0,0,0}^r (x_2^2 + \\
& y_2^2)(2x_1 x_2 y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,0,0,-2,0,-2,0,0,0}^r (x_1(2x_3^2 x_4 y_4 + 2x_3 x_4^2 y_3 - 2x_3 y_3 y_4^2 - \\
& 2x_4 y_3^2 y_4) + y_1(-x_3^2 x_4^2 + x_3^2 y_4^2 + 4x_3 x_4 y_3 y_4 + x_4^2 y_3^2 - y_3^2 y_4^2)) - \\
& b_{1,0,0,0,-2,0,0,0,2,0}^r (x_1(2x_3^2 x_5 y_5 - 2x_3 x_5^2 y_3 + 2x_3 y_3 y_5^2 - 2x_5 y_3^2 y_5) + y_1(x_3^2 x_5^2 - x_3^2 y_5^2 + \\
& 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2)) + b_{1,0,0,0,-4,0,0,0,0,0}^r (x_1(4x_3^3 y_3 - 4x_3 y_3^3) + y_1(-x_3^4 + 6x_3^2 y_3^2 - \\
& y_3^4)) - b_{1,0,0,0,0,0,-2,0,2,0}^r (x_1(2x_4^2 x_5 y_5 - 2x_4 x_5^2 y_4 + 2x_4 y_4 y_5^2 - 2x_5 y_4^2 y_5) + y_1(x_4^2 x_5^2 - \\
& x_4^2 y_5^2 + 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2)) + b_{1,0,0,0,0,0,-4,0,0,0}^r (x_1(4x_4^3 y_4 - 4x_4 y_4^3) + y_1(-x_4^4 +
\end{aligned}$$

$$\begin{aligned}
& 6x_4^2y_4^2 - y_4^4)) + b_{1,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) - \\
& b_{1,0,0,0,0,0,0,0,4,0}^r(x_1(4x_5^3y_5 - 4x_5y_5^3) + y_1(x_5^4 - 6x_5^2y_5^2 + y_5^4)) + b_{1,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) - b_{1,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) - \\
& b_{1,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + b_{1,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_1x_5y_5 + y_1(- \\
& x_5^2 + y_5^2)) - b_{1,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) - b_{1,0,0,0,2,0,0,0,0,1}^r(x_5^2 + \\
& y_5^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) - b_{1,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) - \\
& b_{1,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) + b_{1,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_1x_5y_5 + y_1(- \\
& x_5^2 + y_5^2)) - b_{1,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) - b_{1,0,0,1,2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) - b_{1,0,1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - \\
& x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) + \\
& b_{1,0,1,0,1,0,1,0,0,-1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) + b_{1,0,2,0,-2,0,0,0,0,0}^r(x_1(2x_2^2x_3y_3 - 2x_2x_3^2y_2 + 2x_2y_2y_3^2 - \\
& 2x_3y_2^2y_3) + y_1(-x_2^2x_3^2 + x_2^2y_3^2 - 4x_2x_3y_2y_3 + x_3^2y_2^2 - y_2^2y_3^2)) + \\
& b_{1,0,2,0,0,0,-2,0,0,0}^r(x_1(2x_2^2x_4y_4 - 2x_2x_4^2y_2 + 2x_2y_2y_4^2 - 2x_4y_2^2y_4) + y_1(-x_2^2x_4^2 + x_2^2y_4^2 - \\
& 4x_2x_4y_2y_4 + x_4^2y_2^2 - y_2^2y_4^2)) - b_{1,0,2,0,0,0,0,0,2,0}^r(x_1(2x_2^2x_5y_5 + 2x_2x_5^2y_2 - 2x_2y_2y_5^2 - \\
& 2x_5y_2^2y_5) + y_1(x_2^2x_5^2 - x_2^2y_5^2 - 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2)) - \\
& b_{1,0,4,0,0,0,0,0,0,0}^r(x_1(4x_2^3y_2 - 4x_2y_2^3) + y_1(x_2^4 - 6x_2^2y_2^2 + y_2^4)) + b_{1,1,-2,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) - \\
& b_{1,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) - b_{1,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_3y_3 + \\
& y_1(x_3^2 - y_3^2)) + b_{2,0,-1,0,0,0,0,0,-2,0}^r(x_1(-2x_2x_5^2y_1 + 2x_2y_1y_5^2 + 4x_5y_1y_2y_5) + x_2(2x_1^2x_5y_5 - \\
& 2x_5y_1^2y_5) + y_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2)) - b_{2,0,-1,0,0,0,2,0,0,0}^r(x_1(2x_2x_4^2y_1 - \\
& 2x_2y_1y_4^2 + 4x_4y_1y_2y_4) + x_2(2x_1^2x_4y_4 - 2x_4y_1^2y_4) + y_2(-x_1^2x_4^2 + x_1^2y_4^2 + x_4^2y_1^2 - \\
& y_1^2y_4^2)) - b_{2,0,-1,0,2,0,0,0,0,0}^r(x_1(2x_2x_3^2y_1 - 2x_2y_1y_3^2 + 4x_3y_1y_2y_3) + x_2(2x_1^2x_3y_3 - \\
& 2x_3y_1^2y_3) + y_2(-x_1^2x_3^2 + x_1^2y_3^2 + x_3^2y_1^2 - y_1^2y_3^2)) + b_{2,0,-3,0,0,0,0,0,0,0}^r(-x_1^2y_2^3 + x_1(- \\
& 2x_2^3y_1 + 6x_2y_1y_2^2) + y_1^2y_2^3 + y_2(3x_1^2x_2^2 - 3x_2^2y_1^2)) - b_{2,0,0,0,-1,0,-1,0,1,0}^r(x_1(2x_3x_4x_5y_1 + \\
& 2x_3y_1y_4y_5 + 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(- \\
& x_1^2x_4x_5 - x_1^2y_4y_5 + x_4x_5y_1^2 + y_1^2y_4y_5)) + b_{2,0,0,0,1,0,1,0,-1,0}^r(x_1(-2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 - \\
& 2x_4y_1y_3y_5 + 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 - \\
& x_1^2y_4y_5 + x_4x_5y_1^2 + y_1^2y_4y_5)) + b_{2,0,1,0,-2,0,0,0,0,0}^r(x_1(-2x_2x_3^2y_1 + 2x_2y_1y_3^2 - 4x_3y_1y_2y_3) + \\
& x_2(2x_1^2x_3y_3 - 2x_3y_1^2y_3) + y_2(-x_1^2x_3^2 + x_1^2y_3^2 + x_3^2y_1^2 - y_1^2y_3^2)) + b_{2,0,1,0,0,0,-2,0,0,0}^r(x_1(- \\
& 2x_2x_4^2y_1 + 2x_2y_1y_4^2 - 4x_4y_1y_2y_4) + x_2(2x_1^2x_4y_4 - 2x_4y_1^2y_4) + y_2(-x_1^2x_4^2 + x_1^2y_4^2 + \\
& x_4^2y_1^2 - y_1^2y_4^2)) - b_{2,0,1,0,0,0,0,0,2,0}^r(x_1(2x_2x_5^2y_1 - 2x_2y_1y_5^2 - 4x_5y_1y_2y_5) + x_2(2x_1^2x_5y_5 - \\
& 2x_5y_1^2y_5) + y_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2)) - b_{2,0,3,0,0,0,0,0,0,0}^r(-x_1^2y_2^3 + \\
& x_1(2x_2^3y_1 - 6x_2y_1y_2^2) + y_1^2y_2^3 + y_2(3x_1^2x_2^2 - 3x_2^2y_1^2)) + b_{3,0,0,0,-2,0,0,0,0,0}^r(2x_1^3x_3y_3 - \\
& 6x_1x_3y_1^2y_3 + x_3^2y_1^3 - y_1^3y_3^2 + y_1(-3x_1^2x_3^2 + 3x_1^2y_3^2)) + b_{3,0,0,0,0,0,-2,0,0,0}^r(2x_1^3x_4y_4 - \\
& 6x_1x_4y_1^2y_4 + x_4^2y_1^3 - y_1^3y_4^2 + y_1(-3x_1^2x_4^2 + 3x_1^2y_4^2)) - b_{3,0,0,0,0,0,0,0,2,0}^r(2x_1^3x_5y_5 - \\
& 6x_1x_5y_1^2y_5 - x_5^2y_1^3 + y_1^3y_5^2 + y_1(3x_1^2x_5^2 - 3x_1^2y_5^2)) - b_{3,0,2,0,0,0,0,0,0,0}^r(2x_1^3x_2y_2 - \\
& 6x_1x_2y_1^2y_2 - x_2^2y_1^3 + y_1^3y_2^2 + y_1(3x_1^2x_2^2 - 3x_1^2y_2^2)) - b_{4,0,1,0,0,0,0,0,0,0}^r(4x_1^3x_2y_1 - \\
& 4x_1x_2y_1^3 + y_2(x_1^4 - 6x_1^2y_1^2 + y_1^4)) - b_{5,0,0,0,0,0,0,0,0,0}^r(5x_1^4 - 10x_1^2y_1^2 + y_1^4)
\end{aligned}$$

$$\begin{aligned}
H_{YX}^{(5)} = & b_{-1,0,-1,0,-1,0,-1,0}^r (x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 - \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5)) - b_{-1,0,-1,0,-1,0,1,0}^r (x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + \\
& x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) - \\
& b_{-1,0,-1,0,1,0,-1,0,1,0}^r (x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 + \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5)) + b_{-1,0,-2,0,-2,0,0,0,0}^r (x_1(2x_2^2x_3y_3 + 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - \\
& 2x_3y_2^2y_3) + y_1(x_2^2x_3^2 - x_2^2y_3^2 - 4x_2x_3y_2y_3 - x_3^2y_2^2 + y_2^2y_3^2)) + \\
& b_{-1,0,-2,0,0,0,-2,0,0,0}^r (x_1(2x_2^2x_4y_4 + 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - 2x_4y_2^2y_4) + y_1(x_2^2x_4^2 - x_2^2y_4^2 - \\
& 4x_2x_4y_2y_4 - x_4^2y_2^2 + y_2^2y_4^2)) - b_{-1,0,-2,0,0,0,0,0,2,0}^r (x_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - \\
& 2x_5y_2^2y_5) + y_1(-x_2^2x_5^2 + x_2^2y_5^2 - 4x_2x_5y_2y_5 + x_5^2y_2^2 - y_2^2y_5^2)) + \\
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r (x_1(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_1(x_3^2x_5^2 - x_3^2y_5^2 - \\
& 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) - b_{-1,0,0,0,-2,0,2,0,0,0}^r (x_1(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_1(-x_3^2x_4^2 + x_3^2y_4^2 - 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) + \\
& b_{-1,0,0,0,0,0,-2,0,-2,0}^r (x_1(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_1(x_4^2x_5^2 - x_4^2y_5^2 - \\
& 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + b_{-1,0,0,0,0,0,0,0,2,y_1}^r (x_5^2 + y_5^2)^2 + b_{-1,0,0,0,0,0,0,1,0,1,y_1}^r (x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,0,0,2,0,0,y_1}^r (x_4^2 + y_4^2)^2 - b_{-1,0,0,0,0,0,0,2,0,2,0}^r (x_1(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - \\
& 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_1(-x_4^2x_5^2 + x_4^2y_5^2 + 4x_4x_5y_4y_5 + x_5^2y_4^2 - y_4^2y_5^2)) + \\
& b_{-1,0,0,0,0,1,0,0,0,1,y_1}^r (x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{-1,0,0,0,0,1,0,1,0,0,y_1}^r (x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& b_{-1,0,0,0,0,2,0,0,0,0,y_1}^r (x_3^2 + y_3^2)^2 + b_{-1,0,0,0,2,0,-2,0,0,0}^r (x_1(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_1(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2)) - \\
& b_{-1,0,0,0,2,0,0,0,0,2,0}^r (x_1(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_1(-x_3^2x_5^2 + x_3^2y_5^2 + \\
& 4x_3x_5y_3y_5 + x_5^2y_3^2 - y_3^2y_5^2)) + b_{-1,0,0,1,0,0,0,0,0,1,y_1}^r (x_2^2 + y_2^2)(x_5^2 + y_5^2) + \\
& b_{-1,0,0,1,0,0,0,1,0,0,y_1}^r (x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{-1,0,0,1,0,1,0,0,0,0,y_1}^r (x_2^2 + y_2^2)(x_3^2 + y_3^2) + \\
& b_{-1,0,0,2,0,0,0,0,0,0,y_1}^r (x_2^2 + y_2^2)^2 + b_{-1,0,1,0,-1,0,1,0,-1,0}^r (x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + \\
& x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) + \\
& b_{-1,0,1,0,1,0,-1,0,-1,0}^r (x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5)) - b_{-1,0,1,0,1,0,1,0,1,0}^r (x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - \\
& x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) + \\
& b_{-1,0,2,0,0,0,0,0,-2,0}^r (x_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - 2x_5y_2^2y_5) + y_1(x_2^2x_5^2 - x_2^2y_5^2 + \\
& 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2)) - b_{-1,0,2,0,0,0,2,0,0,0}^r (x_1(2x_2^2x_4y_4 + 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - \\
& 2x_4y_2^2y_4) + y_1(-x_2^2x_4^2 + x_2^2y_4^2 + 4x_2x_4y_2y_4 + x_4^2y_2^2 - y_2^2y_4^2)) - \\
& b_{-1,0,2,0,2,0,0,0,0,0}^r (x_1(2x_2^2x_3y_3 + 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - 2x_3y_2^2y_3) + y_1(-x_2^2x_3^2 + x_2^2y_3^2 + \\
& 4x_2x_3y_2y_3 + x_3^2y_2^2 - y_2^2y_3^2)) + b_{-1,1,0,0,0,0,0,0,0,1,y_1}^r (x_1^2 + y_1^2)(x_5^2 + y_5^2) + \\
& b_{-1,1,0,0,0,0,0,1,0,0,y_1}^r (x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{-1,1,0,0,0,1,0,0,0,0,y_1}^r (x_1^2 + y_1^2)(x_3^2 + y_3^2) + \\
& b_{-1,1,0,1,0,0,0,0,0,0,y_1}^r (x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{-1,2,0,0,0,0,0,0,0,0,y_1}^r (x_1^2 + y_1^2)^2 + \\
& b_{-2,0,-1,0,-2,0,0,0,0,0}^r (x_1(2x_2x_3^2y_1 - 2x_2y_1y_3^2 - 4x_3y_1y_2y_3) + x_2(2x_1^2x_3y_3 - 2x_3y_1^2y_3) + \\
& y_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2)) + b_{-2,0,-1,0,0,0,-2,0,0,0}^r (x_1(2x_2x_4^2y_1 - 2x_2y_1y_4^2 -
\end{aligned}$$



$$\begin{aligned}
& 4x_4y_1y_2y_4) + x_2(2x_1^2x_4y_4 - 2x_4y_1^2y_4) + y_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2)) - \\
& b_{-2,0,-1,0,0,0,0,0,2,0}^r(x_1(-2x_2x_5^2y_1 + 2x_2y_1y_5^2 - 4x_5y_1y_2y_5) + x_2(2x_1^2x_5y_5 - 2x_5y_1^2y_5) + y_2(- \\
& x_1^2x_5^2 + x_1^2y_5^2 + x_5^2y_1^2 - y_1^2y_5^2)) + b_{-2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 - \\
& 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4) + y_3(x_1^2x_4x_5 - \\
& x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5)) - b_{-2,0,0,0,-1,0,1,0,1,0}^r(x_1(-2x_3x_4x_5y_1 + 2x_3y_1y_4y_5 - 2x_4y_1y_3y_5 - \\
& 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 + x_1^2y_4y_5 + \\
& x_4x_5y_1^2 - y_1^2y_4y_5)) - b_{-2,0,0,0,1,0,-1,0,1,0}^r(x_1(-2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 + 2x_4y_1y_3y_5 - \\
& 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(x_1^2x_4x_5 + x_1^2y_4y_5 - \\
& x_4x_5y_1^2 - y_1^2y_4y_5)) - b_{-2,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) - \\
& b_{-2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) - b_{-2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(-2x_1x_2y_1 + \\
& y_2(x_1^2 - y_1^2)) - b_{-2,0,1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) - b_{-2,1,1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(-2x_1x_2y_1 + y_2(x_1^2 - y_1^2)) + b_{-3,0,0,0,-2,0,0,0,0,0}^r(2x_1^3x_3y_3 - 6x_1x_3y_1^2y_3 - x_3^2y_1^3 + \\
& y_1^3y_3^2 + y_1(3x_1^2x_3^2 - 3x_1^2y_3^2)) + b_{-3,0,0,0,0,0,-2,0,0,0}^r(2x_1^3x_4y_4 - 6x_1x_4y_1^2y_4 - x_4^2y_1^3 + \\
& y_1^3y_4^2 + y_1(3x_1^2x_4^2 - 3x_1^2y_4^2)) - b_{-3,0,0,0,0,0,0,0,2,0}^r(2x_1^3x_5y_5 - 6x_1x_5y_1^2y_5 + x_5^2y_1^3 - \\
& y_1^3y_5^2 + y_1(-3x_1^2x_5^2 + 3x_1^2y_5^2)) - b_{-3,0,2,0,0,0,0,0,0,0}^r(2x_1^3x_2y_2 - 6x_1x_2y_1^2y_2 + x_2^2y_1^3 - \\
& y_1^3y_2^2 + y_1(-3x_1^2x_2^2 + 3x_1^2y_2^2)) + b_{0,0,-1,0,-2,0,0,0,-2,0}^r(x_2(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - \\
& 2x_5y_3^2y_5) + y_2(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) - \\
& b_{0,0,-1,0,-2,0,2,0,0,0}^r(x_2(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - 2x_4y_3^2y_4) + y_2(-x_3^2x_4^2 + x_3^2y_4^2 - \\
& 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) + b_{0,0,-1,0,0,0,-2,0,-2,0}^r(x_2(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - \\
& 2x_5y_4^2y_5) + y_2(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + \\
& b_{0,0,-1,0,0,0,0,0,2y_2}^r(x_5^2 + y_5^2)^2 + b_{0,0,-1,0,0,0,0,1,0,1y_2}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2) + \\
& b_{0,0,-1,0,0,0,0,2,0,0y_2}^r(x_4^2 + y_4^2)^2 - b_{0,0,-1,0,0,0,2,0,2,0}^r(x_2(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - \\
& 2x_5y_4^2y_5) + y_2(-x_4^2x_5^2 + x_4^2y_5^2 + 4x_4x_5y_4y_5 + x_5^2y_4^2 - y_4^2y_5^2)) + \\
& b_{0,0,-1,0,0,1,0,0,0,1y_2}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2) + b_{0,0,-1,0,0,1,0,1,0,0y_2}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& b_{0,0,-1,0,0,2,0,0,0,0y_2}^r(x_3^2 + y_3^2)^2 + b_{0,0,-1,0,2,0,-2,0,0,0}^r(x_2(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_2(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2)) - \\
& b_{0,0,-1,0,2,0,0,0,2,0}^r(x_2(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_2(-x_3^2x_5^2 + x_3^2y_5^2 + \\
& 4x_3x_5y_3y_5 + x_5^2y_3^2 - y_3^2y_5^2)) + b_{0,0,-1,1,0,0,0,0,1y_2}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2) + \\
& b_{0,0,-1,1,0,0,0,1,0,0y_2}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2) + b_{0,0,-1,1,0,1,0,0,0,0y_2}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2) + \\
& b_{0,0,-1,2,0,0,0,0,0,0y_2}^r(x_2^2 + y_2^2)^2 + b_{0,0,-2,0,-1,0,-1,0,-1,0}^r(x_2(2x_3x_4x_5y_2 - 2x_3y_2y_4y_5 - 2x_4y_2y_3y_5 - \\
& 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 + x_2^2x_5y_4 - x_4y_2^2y_5 - x_5y_2^2y_4) + y_3(x_2^2x_4x_5 - x_2^2y_4y_5 - \\
& x_4x_5y_2^2 + y_2^2y_4y_5)) - b_{0,0,-2,0,-1,0,1,0,1,0}^r(x_2(-2x_3x_4x_5y_2 + 2x_3y_2y_4y_5 - 2x_4y_2y_3y_5 - \\
& 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 + x_2^2x_5y_4 - x_4y_2^2y_5 - x_5y_2^2y_4) + y_3(-x_2^2x_4x_5 + x_2^2y_4y_5 + \\
& x_4x_5y_2^2 - y_2^2y_4y_5)) - b_{0,0,-2,0,1,0,-1,0,1,0}^r(x_2(-2x_3x_4x_5y_2 - 2x_3y_2y_4y_5 + 2x_4y_2y_3y_5 - \\
& 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4) + y_3(x_2^2x_4x_5 + x_2^2y_4y_5 - \\
& x_4x_5y_2^2 - y_2^2y_4y_5)) + b_{0,0,-3,0,-2,0,0,0,0,0}^r(2x_2^3x_3y_3 - 6x_2x_3y_2^2y_3 - x_3^2y_2^3 + y_2^3y_3^2 + \\
& y_2(3x_2^2x_3^2 - 3x_2^2y_3^2)) + b_{0,0,-3,0,0,0,-2,0,0,0}^r(2x_2^3x_4y_4 - 6x_2x_4y_2^2y_4 - x_4^2y_2^3 + y_2^3y_4^2 + \\
& y_2(3x_2^2x_4^2 - 3x_2^2y_4^2)) - b_{0,0,-3,0,0,0,0,0,2,0}^r(2x_2^3x_5y_5 - 6x_2x_5y_2^2y_5 + x_5^2y_2^3 - y_2^3y_5^2 + y_2(- \\
& 3x_2^2x_5^2 + 3x_2^2y_5^2)) + b_{0,0,0,0,-1,0,-1,0,-3,0}^r(x_3(3x_4x_5^2y_5 - x_4y_5^3 + x_5^3y_4 - 3x_5y_4y_5^2) + \\
& y_3(x_4x_5^3 - 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3)) - b_{0,0,0,0,-1,0,-1,0,3,0}^r(x_3(3x_4x_5^2y_5 - x_4y_5^3 - x_5^3y_4 + \\
& 3x_5y_4y_5^2) + y_3(-x_4x_5^3 + 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3)) - b_{0,0,0,0,-1,0,-3,0,1,0}^r(x_3(x_4^3y_5 - \\
& 3x_4^2x_5y_4 - 3x_4y_4^2y_5 + x_5y_4^3) + y_3(-x_4^3x_5 - 3x_4^2y_4y_5 + 3x_4x_5y_4^2 + y_4^3y_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,0,-1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,0,0,0,-1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) - b_{0,0,0,0,-1,0,3,0,1,0}^r(x_3(x_4^3y_5 + 3x_4^2x_5y_4 - 3x_4y_4^2y_5 - x_5y_4^3) + y_3(-x_4^3x_5 + 3x_4^2y_4y_5 + 3x_4x_5y_4^2 - y_4^3y_5)) + b_{0,0,0,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) - b_{0,0,0,0,-3,0,-1,0,1,0}^r(x_3(-3x_4y_3^2y_5 + 3x_5y_3^2y_4) + x_4(x_3^3y_5 + x_5y_3^3) + y_3(-3x_3^2x_4x_5 - 3x_3^2y_4y_5) + y_4(-x_3^3x_5 + y_3^3y_5)) + b_{0,0,0,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) + b_{0,0,0,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) - b_{0,0,0,0,1,0,1,0,1,1,0}^r(x_5^2 + y_5^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) - b_{0,0,0,0,1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) + b_{0,0,0,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) - b_{0,0,0,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) - b_{0,0,0,0,3,0,-1,0,1,0}^r(x_3(-3x_4y_3^2y_5 + 3x_5y_3^2y_4) + x_4(x_3^3y_5 - x_5y_3^3) + y_3(3x_3^2x_4x_5 + 3x_3^2y_4y_5) + y_4(-x_3^3x_5 - y_3^3y_5)) + b_{0,0,0,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,0,0,1,1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) - b_{0,0,0,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) + b_{0,0,1,0,-2,0,-2,0,0,0}^r(x_2(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - 2x_4y_3^2y_4) + y_2(-x_3^2x_4^2 + x_3^2y_4^2 + 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) - b_{0,0,1,0,-2,0,0,0,2,0}^r(x_2(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_2(x_3^2x_5^2 - x_3^2y_5^2 + 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) + b_{0,0,1,0,-4,0,0,0,0,0}^r(x_2(4x_3^3y_3 - 4x_3y_3^3) + y_2(-x_3^4 + 6x_3^2y_3^2 - y_3^4)) - b_{0,0,1,0,0,0,-2,0,2,0}^r(x_2(2x_4^2x_5y_5 - 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_2(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + b_{0,0,1,0,0,0,-4,0,0,0}^r(x_2(4x_4^3y_4 - 4x_4y_4^3) + y_2(-x_4^4 + 6x_4^2y_4^2 - y_4^4)) + b_{0,0,1,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,0,1,0,0,0,0,0,4,0}^r(x_2(4x_5^3y_5 - 4x_5y_5^3) + y_2(x_5^4 - 6x_5^2y_5^2 + y_5^4)) + b_{0,0,1,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,0,1,0,0,0,2,1,0,0}^r(x_5^2 + y_5^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) + b_{0,0,1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,0,1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) - b_{0,0,1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) - b_{0,0,1,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) - b_{0,0,1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) + b_{0,0,1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,0,1,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) - b_{0,0,1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) - b_{0,0,2,0,-1,0,-1,0,1,0}^r(x_2(2x_3x_4x_5y_2 + 2x_3y_2y_4y_5 + 2x_4y_2y_3y_5 - 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4) + y_3(-x_2^2x_4x_5 - x_2^2y_4y_5 + x_4x_5y_2^2 + y_2^2y_4y_5)) + b_{0,0,2,0,1,0,1,0,-1,0}^r(x_2(-2x_3x_4x_5y_2 - 2x_3y_2y_4y_5 - 2x_4y_2y_3y_5 + 2x_5y_2y_3y_4) + x_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4) + y_3(-x_2^2x_4x_5 - x_2^2y_4y_5 + x_4x_5y_2^2 + y_2^2y_4y_5)) + b_{0,0,3,0,-2,0,0,0,0,0}^r(2x_2^3x_3y_3 - 6x_2x_3y_2^2y_3 + x_3^2y_3^2 - y_2^2y_3^2 + y_2(-3x_2^2x_3^2 + 3x_2^2y_3^2)) + b_{0,0,3,0,0,0,-2,0,0,0}^r(2x_2^3x_4y_4 - 6x_2x_4y_2^2y_4 + x_4^2y_2^2 - y_2^2y_4^2 + y_2(-3x_2^2x_4^2 + 3x_2^2y_4^2)) - b_{0,0,3,0,0,0,0,0,2,0}^r(2x_2^3x_5y_5 - 6x_2x_5y_2^2y_5 - x_5^2y_2^2 + y_2^2y_5^2 + y_2(3x_2^2x_5^2 - 3x_2^2y_5^2)) - b_{0,0,5,0,0,0,0,0,0,0}^r y_2(5x_2^4 - 10x_2^2y_2^2 + y_2^4) + b_{0,1,-1,0,0,0,0,0,0,1}^r y_2(x_1^2 + y_1^2)(x_5^2 + y_5^2) + b_{0,1,-1,0,0,0,0,1,0,0}^r y_2(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{0,1,-1,0,0,1,0,0,0,0}^r y_2(x_1^2 + y_1^2)(x_3^2 + y_3^2) + b_{0,1,-1,1,0,0,0,0,0,0}^r y_2(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{0,1,0,0,-1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_3(x_4y_5 - x_5y_4) + y_3(x_4x_5 + y_4y_5)) + b_{0,1,0,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_3(x_4y_5 + x_5y_4) + y_3(-x_4x_5 + y_4y_5)) - b_{0,1,0,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_3(x_4y_5 + x_5y_4) + y_3(x_4x_5 - y_4y_5)) + b_{0,1,1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(2x_2x_5y_5 + y_2(-x_5^2 + y_5^2)) - b_{0,1,1,0,0,2,0,0,0,0}^r(x_1^2 + y_1^2)(2x_2x_4y_4 + y_2(x_4^2 - y_4^2)) - b_{0,1,1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_2x_3y_3 + y_2(x_3^2 - y_3^2)) + b_{0,2,-1,0,0,0,0,0,0,0}^r y_2(x_1^2 + y_1^2)^2 + b_{1,0,-1,0,-1,0,1,0,-1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) +
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,-1,0,1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + \\
& x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5)) - b_{1,0,-1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - \\
& x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5)) + \\
& b_{1,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2y_2 + y_1(- \\
& x_2^2 + y_2^2)) + b_{1,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,0,0,0,-2,0,-2,0,0,0}^r(x_1(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - \\
& 2x_4y_3^2y_4) + y_1(-x_3^2x_4^2 + x_3^2y_4^2 + 4x_3x_4y_3y_4 + x_4^2y_3^2 - y_3^2y_4^2)) - \\
& b_{1,0,0,0,-2,0,0,0,2,0}^r(x_1(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5) + y_1(x_3^2x_5^2 - x_3^2y_5^2 + \\
& 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2)) + b_{1,0,0,0,-4,0,0,0,0,0}^r(x_1(4x_3^3y_3 - 4x_3y_3^3) + y_1(-x_3^4 + 6x_3^2y_3^2 - \\
& y_3^4)) - b_{1,0,0,0,0,0,-2,0,2,0}^r(x_1(2x_4^2x_5y_5 - 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5) + y_1(x_4^2x_5^2 - \\
& x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2)) + b_{1,0,0,0,0,0,-4,0,0,0}^r(x_1(4x_4^3y_4 - 4x_4y_4^3) + y_1(-x_4^4 + \\
& 6x_4^2y_4^2 - y_4^4)) + b_{1,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) - \\
& b_{1,0,0,0,0,0,0,0,4,0}^r(x_1(4x_5^3y_5 - 4x_5y_5^3) + y_1(x_5^4 - 6x_5^2y_5^2 + y_5^4)) + b_{1,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) - b_{1,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) - \\
& b_{1,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) + b_{1,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_1x_5y_5 + y_1(- \\
& x_5^2 + y_5^2)) - b_{1,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) - b_{1,0,0,0,2,0,0,0,0,1}^r(x_5^2 + \\
& y_5^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) - b_{1,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) - \\
& b_{1,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) + b_{1,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_1x_5y_5 + y_1(- \\
& x_5^2 + y_5^2)) - b_{1,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) - b_{1,0,0,1,2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(2x_1x_3y_3 + y_1(x_3^2 - y_3^2)) - b_{1,0,1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - \\
& x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + y_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) + \\
& b_{1,0,1,0,1,0,1,0,1,0,-1,0}^r(x_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - \\
& x_4y_2y_3y_5 + x_5y_2y_3y_4) + y_1(-x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5)) + b_{1,0,2,0,-2,0,0,0,0,0}^r(x_1(2x_2^2x_3y_3 - 2x_2x_3^2y_2 + 2x_2y_2y_3^2 - \\
& 2x_3y_2^2y_3) + y_1(-x_2^2x_3^2 + x_2^2y_3^2 - 4x_2x_3y_2y_3 + x_3^2y_2^2 - y_2^2y_3^2)) + \\
& b_{1,0,2,0,0,0,-2,0,0,0}^r(x_1(2x_2^2x_4y_4 - 2x_2x_4^2y_2 + 2x_2y_2y_4^2 - 2x_4y_2^2y_4) + y_1(-x_2^2x_4^2 + x_2^2y_4^2 - \\
& 4x_2x_4y_2y_4 + x_4^2y_2^2 - y_2^2y_4^2)) - b_{1,0,2,0,0,0,0,0,2,0}^r(x_1(2x_2^2x_5y_5 + 2x_2x_5^2y_2 - 2x_2y_2y_5^2 - \\
& 2x_5y_2^2y_5) + y_1(x_2^2x_5^2 - x_2^2y_5^2 - 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2)) - \\
& b_{1,0,4,0,0,0,0,0,0,0}^r(x_1(4x_2^3y_2 - 4x_2y_2^3) + y_1(x_2^4 - 6x_2^2y_2^2 + y_2^4)) + b_{1,1,-2,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(2x_1x_2y_2 + y_1(-x_2^2 + y_2^2)) + b_{1,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(2x_1x_5y_5 + y_1(-x_5^2 + y_5^2)) - \\
& b_{1,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_4y_4 + y_1(x_4^2 - y_4^2)) - b_{1,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_3y_3 + \\
& y_1(x_3^2 - y_3^2)) + b_{2,0,-1,0,0,0,0,0,-2,0}^r(x_1(-2x_2x_5^2y_1 + 2x_2y_1y_5^2 + 4x_5y_1y_2y_5) + x_2(2x_1^2x_5y_5 - \\
& 2x_5y_1^2y_5) + y_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2)) - b_{2,0,-1,0,0,0,2,0,0,0}^r(x_1(2x_2x_4^2y_1 - \\
& 2x_2y_1y_4^2 + 4x_4y_1y_2y_4) + x_2(2x_1^2x_4y_4 - 2x_4y_1^2y_4) + y_2(-x_1^2x_4^2 + x_1^2y_4^2 + x_4^2y_1^2 - \\
& y_1^2y_4^2)) - b_{2,0,-1,0,2,0,0,0,0,0}^r(x_1(2x_2x_3^2y_1 - 2x_2y_1y_3^2 + 4x_3y_1y_2y_3) + x_2(2x_1^2x_3y_3 - \\
& 2x_3y_1^2y_3) + y_2(-x_1^2x_3^2 + x_1^2y_3^2 + x_3^2y_1^2 - y_1^2y_3^2)) + b_{2,0,-3,0,0,0,0,0,0,0}^r(-x_1^2y_2^3 + x_1(- \\
& 2x_3^2y_1 + 6x_2y_1y_2^2) + y_1^2y_3^2 + y_2(3x_1^2x_2^2 - 3x_2^2y_1^2)) - b_{2,0,0,0,-1,0,-1,0,1,0}^r(x_1(2x_3x_4x_5y_1 + \\
& 2x_3y_1y_4y_5 + 2x_4y_1y_3y_5 - 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(- \\
& x_1^2x_4x_5 - x_1^2y_4y_5 + x_4x_5y_1^2 + y_1^2y_4y_5)) + b_{2,0,0,0,1,0,1,0,-1,0}^r(x_1(-2x_3x_4x_5y_1 - 2x_3y_1y_4y_5 - \\
& 2x_4y_1y_3y_5 + 2x_5y_1y_3y_4) + x_3(x_1^2x_4y_5 - x_1^2x_5y_4 - x_4y_1^2y_5 + x_5y_1^2y_4) + y_3(-x_1^2x_4x_5 -
\end{aligned}$$

$$\begin{aligned}
& x_1^2 y_4 y_5 + x_4 x_5 y_1^2 + y_1^2 y_4 y_5)) + b_{2,0,1,0,-2,0,0,0,0}^r (x_1(-2x_2 x_3^2 y_1 + 2x_2 y_1 y_3^2 - 4x_3 y_1 y_2 y_3) + \\
& x_2(2x_1^2 x_3 y_3 - 2x_3 y_1^2 y_3) + y_2(-x_1^2 x_3^2 + x_1^2 y_3^2 + x_3^2 y_1^2 - y_1^2 y_3^2)) + b_{2,0,1,0,0,0,-2,0,0}^r (x_1(- \\
& 2x_2 x_4^2 y_1 + 2x_2 y_1 y_4^2 - 4x_4 y_1 y_2 y_4) + x_2(2x_1^2 x_4 y_4 - 2x_4 y_1^2 y_4) + y_2(-x_1^2 x_4^2 + x_1^2 y_4^2 + \\
& x_4^2 y_1^2 - y_1^2 y_4^2)) - b_{2,0,1,0,0,0,0,2,0}^r (x_1(2x_2 x_5^2 y_1 - 2x_2 y_1 y_5^2 - 4x_5 y_1 y_2 y_5) + x_2(2x_1^2 x_5 y_5 - \\
& 2x_5 y_1^2 y_5) + y_2(x_1^2 x_5^2 - x_1^2 y_5^2 - x_5^2 y_1^2 + y_1^2 y_5^2)) - b_{2,0,3,0,0,0,0,0,0}^r (-x_1^2 y_2^3 + \\
& x_1(2x_2^3 y_1 - 6x_2 y_1 y_2^2) + y_1^2 y_2^3 + y_2(3x_1^2 x_2^2 - 3x_2^2 y_1^2)) + b_{3,0,0,0,-2,0,0,0,0}^r (2x_1^3 x_3 y_3 - \\
& 6x_1 x_3 y_1^2 y_3 + x_3^2 y_1^3 - y_1^3 y_3^2 + y_1(-3x_1^2 x_3^2 + 3x_1^2 y_3^2)) + b_{3,0,0,0,0,0,-2,0,0}^r (2x_1^3 x_4 y_4 - \\
& 6x_1 x_4 y_1^2 y_4 + x_4^2 y_1^3 - y_1^3 y_4^2 + y_1(-3x_1^2 x_4^2 + 3x_1^2 y_4^2)) - b_{3,0,0,0,0,0,0,2,0}^r (2x_1^3 x_5 y_5 - \\
& 6x_1 x_5 y_1^2 y_5 - x_5^2 y_1^3 + y_1^3 y_5^2 + y_1(3x_1^2 x_5^2 - 3x_1^2 y_5^2)) - b_{3,0,2,0,0,0,0,0,0}^r (2x_1^3 x_2 y_2 - \\
& 6x_1 x_2 y_1^2 y_2 - x_2^2 y_1^3 + y_1^3 y_2^2 + y_1(3x_1^2 x_2^2 - 3x_1^2 y_2^2)) - b_{4,0,1,0,0,0,0,0,0}^r (4x_1^3 x_2 y_1 - \\
& 4x_1 x_2 y_1^3 + y_2(x_1^4 - 6x_1^2 y_1^2 + y_1^4)) - b_{5,0,0,0,0,0,0,0,0}^r y_1(5x_1^4 - 10x_1^2 y_1^2 + y_1^4)
\end{aligned}$$

$$\begin{aligned}
H_{YY}^{(5)} = & a_{0,0,0,0,1,0,-1,0,-3,0}^r (x_3(x_4 x_5^3 - 3x_4 x_5 y_5^2 - 3x_5^2 y_4 y_5 + y_4 y_5^3) + y_3(3x_4 x_5^2 y_5 - x_4 y_5^3 + x_5^3 y_4 - \\
& 3x_5 y_4 y_5^2)) + a_{0,0,0,0,1,0,-1,0,3,0}^r (x_3(x_4 x_5^3 - 3x_4 x_5 y_5^2 + 3x_5^2 y_4 y_5 - y_4 y_5^3) + y_3(-3x_4 x_5^2 y_5 + \\
& x_4 y_5^3 + x_5^3 y_4 - 3x_5 y_4 y_5^2)) + a_{0,0,0,0,1,0,-3,0,1,0}^r (x_3(x_4^3 x_5 + 3x_4^2 y_4 y_5 - 3x_4 x_5 y_4^2 - y_4^3 y_5) + \\
& y_3(-x_4^3 y_5 + 3x_4^2 x_5 y_4 + 3x_4 y_4^2 y_5 - x_5 y_4^3)) + a_{0,0,0,0,1,0,1,0,-1,1}^r (x_5^2 + y_5^2)(x_3(x_4 x_5 + y_4 y_5) + \\
& y_3(x_4 y_5 - x_5 y_4)) + a_{0,0,0,0,1,0,1,1,-1,0}^r (x_4^2 + y_4^2)(x_3(x_4 x_5 + y_4 y_5) + y_3(x_4 y_5 - x_5 y_4)) + \\
& a_{0,0,0,0,1,0,3,0,1,0}^r (x_3(x_4^3 x_5 - 3x_4^2 y_4 y_5 - 3x_4 x_5 y_4^2 + y_4^3 y_5) + y_3(-x_4^3 y_5 - 3x_4^2 x_5 y_4 + \\
& 3x_4 y_4^2 y_5 + x_5 y_4^3)) + a_{0,0,0,0,1,1,1,0,-1,0}^r (x_3^2 + y_3^2)(x_3(x_4 x_5 + y_4 y_5) + y_3(x_4 y_5 - x_5 y_4)) + \\
& a_{0,0,0,0,3,0,-1,0,-1,0}^r (x_3(-3x_4 x_5 y_3^2 + 3y_3^2 y_4 y_5) + x_4(x_3^3 x_5 - y_3^3 y_5) + y_3(3x_3^2 x_4 y_5 + 3x_3^2 x_5 y_4) + \\
& y_4(-x_3^3 y_5 - x_5 y_3^3)) + a_{0,0,0,0,3,0,1,0,1,0}^r (x_3(-3x_4 x_5 y_3^2 + 3y_3^2 y_4 y_5) + x_4(x_3^3 x_5 + y_3^3 y_5) + y_3(- \\
& 3x_3^2 x_4 y_5 - 3x_3^2 x_5 y_4) + y_4(-x_3^3 y_5 + x_5 y_3^3)) + a_{0,0,0,1,1,0,1,0,-1,0}^r (x_2^2 + y_2^2)(x_3(x_4 x_5 + y_4 y_5) + \\
& y_3(x_4 y_5 - x_5 y_4)) + a_{0,0,1,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + a_{0,0,1,0,-2,0,0,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + a_{0,0,1,0,-2,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + \\
& a_{0,0,1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2)(x_2(x_4^2 - y_4^2) + 2x_4 y_2 y_4) + a_{0,0,1,0,0,0,-2,1,0,0}^r (x_4^2 + y_4^2)(x_2(x_4^2 - y_4^2) + \\
& 2x_4 y_2 y_4) + a_{0,0,1,0,0,0,0,0,-4,0}^r (x_5^4 - 6x_5^2 y_5^2 + y_5^4) + y_2(4x_5^3 y_5 - 4x_5 y_5^3) + \\
& a_{0,0,1,0,0,0,0,0,2,1}^r (x_5^2 + y_5^2)(x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + a_{0,0,1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2)(x_2(x_5^2 - y_5^2) - \\
& 2x_5 y_2 y_5) + a_{0,0,1,0,0,0,2,0,-2,0}^r (x_2(x_4^2 x_5^2 - x_4^2 y_5^2 + 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + y_4^2 y_5^2) + \\
& y_2(2x_2^2 x_5 y_5 - 2x_4 x_5^2 y_4 + 2x_4 y_4 y_5^2 - 2x_5 y_4^2 y_5)) + a_{0,0,1,0,0,0,4,0,0,0}^r (x_2(x_4^4 - 6x_4^2 y_4^2 + y_4^4) + \\
& y_2(-4x_4^3 y_4 + 4x_4 y_4^3)) + a_{0,0,1,0,0,0,1,-2,0,0,0}^r (x_3^2 + y_3^2)(x_2(x_4^2 - y_4^2) + 2x_4 y_2 y_4) + \\
& a_{0,0,1,0,0,1,0,0,2,0}^r (x_3^2 + y_3^2)(x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + a_{0,0,1,0,2,0,0,0,-2,0}^r (x_2(x_3^2 x_5^2 - x_3^2 y_5^2 + \\
& 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2) + y_2(2x_3^2 x_5 y_5 - 2x_3 x_5^2 y_3 + 2x_3 y_3 y_5^2 - 2x_5 y_3^2 y_5)) + \\
& a_{0,0,1,0,2,0,2,0,0,0}^r (x_2(x_3^2 x_4^2 - x_3^2 y_4^2 - 4x_3 x_4 y_3 y_4 - x_4^2 y_3^2 + y_3^2 y_4^2) + y_2(-2x_3^2 x_4 y_4 - \\
& 2x_3 x_4^2 y_3 + 2x_3 y_3 y_4^2 + 2x_4 y_3^2 y_4)) + a_{0,0,1,0,4,0,0,0,0,0}^r (x_2(x_3^4 - 6x_3^2 y_3^2 + y_3^4) + y_2(-4x_3^3 y_3 + \\
& 4x_3 y_3^3)) + a_{0,0,1,1,-2,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_2(x_3^2 - y_3^2) + 2x_3 y_2 y_3) + a_{0,0,1,1,0,0,-2,0,0,0}^r (x_2^2 + \\
& y_2^2)(x_2(x_4^2 - y_4^2) + 2x_4 y_2 y_4) + a_{0,0,1,1,0,0,0,0,2,0}^r (x_2^2 + y_2^2)(x_2(x_5^2 - y_5^2) - 2x_5 y_2 y_5) + \\
& a_{0,0,2,0,-1,0,-1,0,-1,0}^r (x_2(2x_3 x_4 y_2 y_5 + 2x_3 x_5 y_2 y_4 + 2x_4 x_5 y_2 y_3 - 2y_2 y_3 y_4 y_5) + x_3(x_2^2 x_4 x_5 - \\
& x_2^2 y_4 y_5 - x_4 x_5 y_2^2 + y_2^2 y_4 y_5) + y_3(-x_2^2 x_4 y_5 - x_2^2 x_5 y_4 + x_4 y_2^2 y_5 + x_5 y_2^2 y_4)) + \\
& a_{0,0,2,0,-1,0,1,0,1,0}^r (x_2(-2x_3 x_4 y_2 y_5 - 2x_3 x_5 y_2 y_4 + 2x_4 x_5 y_2 y_3 - 2y_2 y_3 y_4 y_5) + x_3(x_2^2 x_4 x_5 - \\
& x_2^2 y_4 y_5 - x_4 x_5 y_2^2 + y_2^2 y_4 y_5) + y_3(x_2^2 x_4 y_5 + x_2^2 x_5 y_4 - x_4 y_2^2 y_5 - x_5 y_2^2 y_4)) + \\
& a_{0,0,2,0,1,0,-1,0,1,0}^r (x_2(-2x_3 x_4 y_2 y_5 + 2x_3 x_5 y_2 y_4 - 2x_4 x_5 y_2 y_3 - 2y_2 y_3 y_4 y_5) + x_3(x_2^2 x_4 x_5 + \\
& x_2^2 y_4 y_5 - x_4 x_5 y_2^2 - y_2^2 y_4 y_5) + y_3(-x_2^2 x_4 y_5 + x_2^2 x_5 y_4 + x_4 y_2^2 y_5 - x_5 y_2^2 y_4)) +
\end{aligned}$$

$$\begin{aligned}
& a_{0,0,3,0,0,0,0,0,1}^r x_2(x_2^2 - 3y_2^2)(x_5^2 + y_5^2) + a_{0,0,3,0,0,0,0,1,0,0}^r x_2(x_2^2 - 3y_2^2)(x_4^2 + y_4^2) + \\
& a_{0,0,3,0,0,1,0,0,0,0}^r x_2(x_2^2 - 3y_2^2)(x_3^2 + y_3^2) + a_{0,0,3,1,0,0,0,0,0,0}^r x_2(x_2^2 - 3y_2^2)(x_2^2 + y_2^2) + \\
& a_{0,1,0,0,1,0,1,0,-1,0}^r (x_1^2 + y_1^2)(x_3(x_4x_5 + y_4y_5) + y_3(x_4y_5 - x_5y_4)) + a_{0,1,1,0,-2,0,0,0,0,0}^r (x_1^2 + \\
& y_1^2)(x_2(x_3^2 - y_3^2) + 2x_3y_2y_3) + a_{0,1,1,0,0,0,-2,0,0,0}^r (x_1^2 + y_1^2)(x_2(x_4^2 - y_4^2) + 2x_4y_2y_4) + \\
& a_{0,1,1,0,0,0,0,0,2,0}^r (x_1^2 + y_1^2)(x_2(x_5^2 - y_5^2) - 2x_5y_2y_5) + a_{0,1,3,0,0,0,0,0,0,0}^r x_2(x_1^2 + y_1^2)(x_2^2 - 3y_2^2) + \\
& a_{1,0,-1,0,-1,0,-1,0,1,0}^r (x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 - \\
& x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + a_{1,0,-1,0,1,0,1,0,-1,0}^r (x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + \\
& a_{1,0,-2,0,0,0,0,0,-2,0}^r (x_1(x_2^2x_5^2 - x_2^2y_5^2 - 4x_2x_5y_2y_5 - x_5^2y_2^2 + y_2^2y_5^2) + y_1(2x_2^2x_5y_5 + \\
& 2x_2x_5^2y_2 - 2x_2y_2y_5^2 - 2x_5y_2^2y_5)) + a_{1,0,-2,0,0,0,2,0,0,0}^r (x_1(x_2^2x_4^2 - x_2^2y_4^2 + 4x_2x_4y_2y_4 - \\
& x_4^2y_2^2 + y_2^2y_4^2) + y_1(-2x_2^2x_4y_4 + 2x_2x_4^2y_2 - 2x_2y_2y_4^2 + 2x_4y_2^2y_4)) + \\
& a_{1,0,-2,0,2,0,0,0,0,0}^r (x_1(x_2^2x_3^2 - x_2^2y_3^2 + 4x_2x_3y_2y_3 - x_3^2y_2^2 + y_2^2y_3^2) + y_1(-2x_2^2x_3y_3 + \\
& 2x_2x_3^2y_2 - 2x_2y_2y_3^2 + 2x_3y_2^2y_3)) + a_{1,0,-4,0,0,0,0,0,0,0}^r (x_1(x_2^4 - 6x_2^2y_2^2 + y_2^4) + y_1(4x_3^2y_2 - \\
& 4x_2y_2^3)) + a_{1,0,0,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,0,-2,0,0,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,0,-2,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + \\
& a_{1,0,0,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,0,0,0,0,0,-2,1,0,0}^r (x_4^2 + y_4^2)(x_1(x_4^2 - y_4^2) + \\
& 2x_4y_1y_4) + a_{1,0,0,0,0,0,0,0,-4,0}^r (x_1(x_5^4 - 6x_5^2y_5^2 + y_5^4) + y_1(4x_5^3y_5 - 4x_5y_5^3)) + \\
& a_{1,0,0,0,0,0,0,0,2,1}^r (x_5^2 + y_5^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,0,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2)(x_1(x_5^2 - y_5^2) - \\
& 2x_5y_1y_5) + a_{1,0,0,0,0,0,2,0,-2,0}^r (x_1(x_4^2x_5^2 - x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + \\
& y_1(2x_4^2x_5y_5 - 2x_4x_5^2y_4 + 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) + a_{1,0,0,0,0,0,4,0,0,0}^r (x_1(x_4^4 - 6x_4^2y_4^2 + y_4^4) + \\
& y_1(-4x_4^3y_4 + 4x_4y_4^3)) + a_{1,0,0,0,0,1,-2,0,0,0}^r (x_3^2 + y_3^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + \\
& a_{1,0,0,0,0,1,0,0,2,0}^r (x_3^2 + y_3^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,0,0,0,2,0,0,0,-2,0}^r (x_1(x_3^2x_5^2 - x_3^2y_5^2 + \\
& 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_1(2x_3^2x_5y_5 - 2x_3x_5^2y_3 + 2x_3y_3y_5^2 - 2x_5y_3^2y_5)) + \\
& a_{1,0,0,0,2,0,2,0,0,0}^r (x_1(x_3^2x_4^2 - x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + y_1(-2x_3^2x_4y_4 - \\
& 2x_3x_4^2y_3 + 2x_3y_3y_4^2 + 2x_4y_3^2y_4)) + a_{1,0,0,0,4,0,0,0,0,0}^r (x_1(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_1(-4x_3^3y_3 + \\
& 4x_3y_3^3)) + a_{1,0,0,1,-2,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,0,0,1,0,0,-2,0,0,0}^r (x_2^2 + \\
& y_2^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + a_{1,0,0,1,0,0,0,0,2,0}^r (x_2^2 + y_2^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + \\
& a_{1,0,1,0,-1,0,-1,0,-1,0}^r (x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + \\
& x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4)) + a_{1,0,1,0,-1,0,1,0,1,0}^r (x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + \\
& x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) + \\
& a_{1,0,1,0,1,0,-1,0,1,0}^r (x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - \\
& x_4x_5y_2y_3 - y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) + a_{1,0,2,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + \\
& a_{1,0,2,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,0,2,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1(x_2^2 - y_2^2) - \\
& 2x_2y_1y_2) + a_{1,0,2,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1(x_2^2 - y_2^2) - 2x_2y_1y_2) + a_{1,1,0,0,-2,0,0,0,0,0}^r (x_1^2 + \\
& y_1^2)(x_1(x_3^2 - y_3^2) + 2x_3y_1y_3) + a_{1,1,0,0,0,0,-2,0,0,0}^r (x_1^2 + y_1^2)(x_1(x_4^2 - y_4^2) + 2x_4y_1y_4) + \\
& a_{1,1,0,0,0,0,0,0,2,0}^r (x_1^2 + y_1^2)(x_1(x_5^2 - y_5^2) - 2x_5y_1y_5) + a_{1,1,2,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1(x_2^2 - y_2^2) - \\
& 2x_2y_1y_2) + a_{2,0,-1,0,-2,0,0,0,0,0}^r (x_1(4x_2x_3y_1y_3 + 2x_3^2y_1y_2 - 2y_1y_2y_3^2) + x_2(x_1^2x_3^2 - x_1^2y_3^2 - \\
& x_3^2y_1^2 + y_1^2y_3^2) + y_2(-2x_1^2x_3y_3 + 2x_3y_1^2y_3)) + a_{2,0,-1,0,0,0,-2,0,0,0}^r (x_1(4x_2x_4y_1y_4 +
\end{aligned}$$

$$\begin{aligned}
& 2x_4^2y_1y_2 - 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + y_1^2y_4^2) + y_2(-2x_1^2x_4y_4 + \\
& 2x_4y_1^2y_4)) + a_{2,0,-1,0,0,0,0,2,0}^r(x_1(-4x_2x_5y_1y_5 + 2x_5^2y_1y_2 - 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - \\
& x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2) + y_2(2x_1^2x_5y_5 - 2x_5y_1^2y_5)) + a_{2,0,0,0,-1,0,-1,0}^r(x_1(2x_3x_4y_1y_5 + \\
& 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(- \\
& x_1^2x_4y_5 - x_1^2x_5y_4 + x_4y_1^2y_5 + x_5y_1^2y_4)) + a_{2,0,0,0,-1,0,1,0}^r(x_1(-2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 + \\
& 2x_4x_5y_1y_3 - 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 - x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(x_1^2x_4y_5 + \\
& x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4)) + a_{2,0,0,0,1,0,-1,0}^r(x_1(-2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 - \\
& 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 + x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 + x_1^2x_5y_4 + \\
& x_4y_1^2y_5 - x_5y_1^2y_4)) + a_{2,0,1,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + \\
& a_{2,0,1,0,0,0,0,1,0}^r(x_4^2 + y_4^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,0,1,0,0,1,0,0,0}^r(x_3^2 + y_3^2)(-2x_1y_1y_2 + \\
& x_2(x_1^2 - y_1^2)) + a_{2,0,1,1,0,0,0,0,0}^r(x_2^2 + y_2^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{2,1,1,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(-2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) + a_{3,0,0,0,0,0,0,0,1}^r(x_1^2 - 3y_1^2)(x_5^2 + y_5^2) + \\
& a_{3,0,0,0,0,0,0,1,0}^r(x_1^2 - 3y_1^2)(x_4^2 + y_4^2) + a_{3,0,0,0,0,1,0,0,0}^r(x_1^2 - 3y_1^2)(x_3^2 + y_3^2) + \\
& a_{3,0,0,1,0,0,0,0,0}^r(x_1^2 - 3y_1^2)(x_2^2 + y_2^2) + a_{3,1,0,0,0,0,0,0,0}^r(x_1^2 - 3y_1^2)(x_1^2 + y_1^2) + \\
& a_{4,0,-1,0,0,0,0,0,0}^r(4x_1^3y_1y_2 - 4x_1y_1^3y_2 + x_2(x_1^4 - 6x_1^2y_1^2 + y_1^4)) - \\
& b_{-1,0,-1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 - \\
& x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4)) - b_{-1,0,-1,0,-1,0,1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) - \\
& b_{-1,0,-1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 + \\
& x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 - x_3x_4x_5y_2 - \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4)) - b_{-1,0,-2,0,-2,0,0,0,0}^r(x_1(x_2^2x_3^2 - x_2^2y_3^2 - 4x_2x_3y_2y_3 - \\
& x_3^2y_2^2 + y_2^2y_3^2) + y_1(-2x_2^2x_3y_3 - 2x_2x_3^2y_2 + 2x_2y_2y_3^2 + 2x_3y_2^2y_3)) - \\
& b_{-1,0,-2,0,0,0,-2,0,0}^r(x_1(x_2^2x_4^2 - x_2^2y_4^2 - 4x_2x_4y_2y_4 - x_4^2y_2^2 + y_2^2y_4^2) + y_1(-2x_2^2x_4y_4 - \\
& 2x_2x_4^2y_2 + 2x_2y_2y_4^2 + 2x_4y_2^2y_4)) - b_{-1,0,-2,0,0,0,0,2,0}^r(x_1(x_2^2x_5^2 - x_2^2y_5^2 + 4x_2x_5y_2y_5 - \\
& x_5^2y_2^2 + y_2^2y_5^2) + y_1(2x_2^2x_5y_5 - 2x_2x_5^2y_2 + 2x_2y_2y_5^2 - 2x_5y_2^2y_5)) - \\
& b_{-1,0,0,0,-2,0,0,0,-2,0}^r(x_1(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_1(-2x_3^2x_5y_5 - \\
& 2x_3x_5^2y_3 + 2x_3y_3y_5^2 + 2x_5y_3^2y_5)) - b_{-1,0,0,0,-2,0,2,0,0}^r(x_1(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - \\
& x_4^2y_3^2 + y_3^2y_4^2) + y_1(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) - \\
& b_{-1,0,0,0,0,0,-2,0,-2,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_1(-2x_4^2x_5y_5 - \\
& 2x_4x_5^2y_4 + 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) - b_{-1,0,0,0,0,0,0,0,2}^r(x_1(x_5^2 + y_5^2)^2 - b_{-1,0,0,0,0,0,1,0,1}^r(x_1(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) - b_{-1,0,0,0,0,0,2,0,0}^r(x_1(x_4^2x_5^2 - x_4^2y_5^2 - \\
& 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_1(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) - \\
& b_{-1,0,0,0,1,0,0,0,1}^r(x_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) - b_{-1,0,0,0,1,0,1,0,0}^r(x_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) - \\
& b_{-1,0,0,0,2,0,0,0,0}^r(x_1(x_3^2 + y_3^2)^2 - b_{-1,0,0,0,2,0,-2,0,0}^r(x_1(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + \\
& y_3^2y_4^2) + y_1(-2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 + 2x_4y_3^2y_4)) - b_{-1,0,0,0,2,0,0,0,2,0}^r(x_1(x_3^2x_5^2 - \\
& x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_1(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - \\
& 2x_5y_3^2y_5)) - b_{-1,0,0,1,0,0,0,0,1}^r(x_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) - b_{-1,0,0,1,0,0,0,1,0,0}^r(x_1(x_2^2 + y_2^2)(x_4^2 + \\
& y_4^2) - b_{-1,0,0,1,0,1,0,0,0,0}^r(x_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) - b_{-1,0,0,2,0,0,0,0,0,0}^r(x_1(x_2^2 + y_2^2)^2 - \\
& b_{-1,0,1,0,-1,0,1,0,-1,0}^r(x_1(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 + \\
& x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4)) - b_{-1,0,1,0,1,0,-1,0,-1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 +
\end{aligned}$$

$$\begin{aligned}
& x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(-x_2x_3x_4y_5 - x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4)) - \\
& b_{-1,0,1,0,1,0,1,0,1,0}^r(x_1(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 - \\
& x_4x_5y_2y_3 + y_2y_3y_4y_5) + y_1(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 - \\
& x_3y_2y_4y_5 - x_4y_2y_3y_5 - x_5y_2y_3y_4)) - b_{-1,0,2,0,0,0,0,0,-2,0}^r(x_1(x_2^2x_5^2 - x_2^2y_5^2 + 4x_2x_5y_2y_5 - \\
& x_5^2y_2^2 + y_2^2y_5^2) + y_1(-2x_2^2x_5y_5 + 2x_2x_5^2y_2 - 2x_2y_2y_5^2 + 2x_5y_2^2y_5)) - \\
& b_{-1,0,2,0,0,0,2,0,0,0}^r(x_1(x_2^2x_4^2 - x_2^2y_4^2 - 4x_2x_4y_2y_4 - x_4^2y_2^2 + y_2^2y_4^2) + y_1(2x_2^2x_4y_4 + \\
& 2x_2x_4^2y_2 - 2x_2y_2y_4^2 - 2x_4y_2^2y_4)) - b_{-1,0,2,0,2,0,0,0,0,0}^r(x_1(x_2^2x_3^2 - x_2^2y_3^2 - 4x_2x_3y_2y_3 - \\
& x_3^2y_2^2 + y_2^2y_3^2) + y_1(2x_2^2x_3y_3 + 2x_2x_3^2y_2 - 2x_2y_2y_3^2 - 2x_3y_2^2y_3)) - \\
& b_{-1,1,0,0,0,0,0,0,0,1}^r(x_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) - b_{-1,1,0,0,0,0,0,1,0,0}^r(x_1(x_1^2 + y_1^2)(x_4^2 + y_4^2) - \\
& b_{-1,1,0,0,0,1,0,0,0,0}^r(x_1(x_1^2 + y_1^2)(x_3^2 + y_3^2) - b_{-1,1,0,1,0,0,0,0,0,0}^r(x_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) - \\
& b_{-1,2,0,0,0,0,0,0,0,0}^r(x_1(x_1^2 + y_1^2)^2 - b_{-2,0,-1,0,-2,0,0,0,0,0}^r(x_1(-4x_2x_3y_1y_3 - 2x_3^2y_1y_2 + 2y_1y_2y_3^2) + \\
& x_2(x_1^2x_3^2 - x_1^2y_3^2 - x_3^2y_1^2 + y_1^2y_3^2) + y_2(-2x_1^2x_3y_3 + 2x_3y_1^2y_3)) - \\
& b_{-2,0,-1,0,0,0,-2,0,0,0}^r(x_1(-4x_2x_4y_1y_4 - 2x_4^2y_1y_2 + 2y_1y_2y_4^2) + x_2(x_1^2x_4^2 - x_1^2y_4^2 - x_4^2y_1^2 + \\
& y_1^2y_4^2) + y_2(-2x_1^2x_4y_4 + 2x_4y_1^2y_4)) - b_{-2,0,-1,0,0,0,0,0,2,0}^r(x_1(4x_2x_5y_1y_5 - 2x_5^2y_1y_2 + \\
& 2y_1y_2y_5^2) + x_2(x_1^2x_5^2 - x_1^2y_5^2 - x_5^2y_1^2 + y_1^2y_5^2) + y_2(2x_1^2x_5y_5 - 2x_5y_1^2y_5)) - \\
& b_{-2,0,0,0,-1,0,-1,0,-1,0}^r(x_1(-2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 + 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 - \\
& x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 - x_1^2x_5y_4 + x_4y_1^2y_5 + x_5y_1^2y_4)) - \\
& b_{-2,0,0,0,-1,0,1,0,1,0}^r(x_1(2x_3x_4y_1y_5 + 2x_3x_5y_1y_4 - 2x_4x_5y_1y_3 + 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 - \\
& x_1^2y_4y_5 - x_4x_5y_1^2 + y_1^2y_4y_5) + y_3(x_1^2x_4y_5 + x_1^2x_5y_4 - x_4y_1^2y_5 - x_5y_1^2y_4)) - \\
& b_{-2,0,0,0,1,0,-1,0,1,0}^r(x_1(2x_3x_4y_1y_5 - 2x_3x_5y_1y_4 + 2x_4x_5y_1y_3 + 2y_1y_3y_4y_5) + x_3(x_1^2x_4x_5 + \\
& x_1^2y_4y_5 - x_4x_5y_1^2 - y_1^2y_4y_5) + y_3(-x_1^2x_4y_5 + x_1^2x_5y_4 + x_4y_1^2y_5 - x_5y_1^2y_4)) - \\
& b_{-2,0,1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) - b_{-2,0,1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1y_1y_2 + \\
& x_2(x_1^2 - y_1^2)) - b_{-2,0,1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) - b_{-2,0,1,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) - b_{-2,1,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1y_1y_2 + x_2(x_1^2 - y_1^2)) - \\
& b_{-3,0,0,0,-2,0,0,0,0,0}^r(x_1^3x_3^2 - x_1^3y_3^2 - 6x_1^2x_3y_1y_3 + x_1(-3x_3^2y_1^2 + 3y_1^2y_3^2) + 2x_3y_1^3y_3) - \\
& b_{-3,0,0,0,0,0,-2,0,0,0}^r(x_1^3x_4^2 - x_1^3y_4^2 - 6x_1^2x_4y_1y_4 + x_1(-3x_4^2y_1^2 + 3y_1^2y_4^2) + 2x_4y_1^3y_4) - \\
& b_{-3,0,0,0,0,0,0,0,2,0}^r(x_1^3x_5^2 - x_1^3y_5^2 + 6x_1^2x_5y_1y_5 + x_1(-3x_5^2y_1^2 + 3y_1^2y_5^2) - 2x_5y_1^3y_5) - \\
& b_{-3,0,2,0,0,0,0,0,0,0}^r(x_1^3x_2^2 - x_1^3y_2^2 + 6x_1^2x_2y_1y_2 + x_1(-3x_2^2y_1^2 + 3y_1^2y_2^2) - 2x_2y_1^3y_2) - \\
& b_{0,0,-1,0,-2,0,0,0,-2,0}^r(x_2(x_3^2x_5^2 - x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_2(-2x_3^2x_5y_5 - \\
& 2x_3x_5^2y_3 + 2x_3y_3y_5^2 + 2x_5y_3^2y_5)) - b_{0,0,-1,0,-2,0,2,0,0,0}^r(x_2(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - \\
& x_4^2y_3^2 + y_3^2y_4^2) + y_2(2x_3^2x_4y_4 - 2x_3x_4^2y_3 + 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) - \\
& b_{0,0,-1,0,0,0,-2,0,-2,0}^r(x_2(x_4^2x_5^2 - x_4^2y_5^2 - 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_2(-2x_4^2x_5y_5 - \\
& 2x_4x_5^2y_4 + 2x_4y_4y_5^2 + 2x_5y_4^2y_5)) - b_{0,0,-1,0,0,0,0,0,2}^r(x_2(x_5^2 + y_5^2)^2 - b_{0,0,-1,0,0,0,0,1,0,1}^r(x_2(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) - b_{0,0,-1,0,0,0,0,2,0,2,0}^r(x_2(x_4^2x_5^2 - x_4^2y_5^2 - \\
& 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_2(2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 - 2x_5y_4^2y_5)) - \\
& b_{0,0,-1,0,0,1,0,0,0,1}^r(x_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) - b_{0,0,-1,0,0,1,0,1,0,0}^r(x_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) - \\
& b_{0,0,-1,0,0,2,0,0,0,0}^r(x_2(x_3^2 + y_3^2)^2 - b_{0,0,-1,0,2,0,-2,0,0,0}^r(x_2(x_3^2x_4^2 - x_3^2y_4^2 + 4x_3x_4y_3y_4 - x_4^2y_3^2 + \\
& y_3^2y_4^2) + y_2(-2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 + 2x_4y_3^2y_4)) - b_{0,0,-1,0,2,0,0,0,2,0}^r(x_2(x_3^2x_5^2 - \\
& x_3^2y_5^2 - 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_2(2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 - \\
& 2x_5y_3^2y_5)) - b_{0,0,-1,1,0,0,0,0,0,1}^r(x_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) - b_{0,0,-1,1,0,0,0,1,0,0}^r(x_2(x_2^2 + y_2^2)(x_4^2 + \\
& y_4^2) - b_{0,0,-1,1,0,1,0,0,0,0}^r(x_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) - b_{0,0,-1,2,0,0,0,0,0,0}^r(x_2(x_2^2 + y_2^2)^2 -
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,-2,0,-1,0,-1,0,-1,0}^r(x_2(-2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 + 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 - \\
& x_2^2y_4y_5 - x_4x_5y_2^2 + y_2^2y_4y_5) + y_3(-x_2^2x_4y_5 - x_2^2x_5y_4 + x_4y_2^2y_5 + x_5y_2^2y_4)) - \\
& b_{0,0,-2,0,-1,0,1,0,1,0}^r(x_2(2x_3x_4y_2y_5 + 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 + 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 - \\
& x_2^2y_4y_5 - x_4x_5y_2^2 + y_2^2y_4y_5) + y_3(x_2^2x_4y_5 + x_2^2x_5y_4 - x_4y_2^2y_5 - x_5y_2^2y_4)) - \\
& b_{0,0,-2,0,1,0,-1,0,1,0}^r(x_2(2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 + 2x_4x_5y_2y_3 + 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 + \\
& x_2^2y_4y_5 - x_4x_5y_2^2 - y_2^2y_4y_5) + y_3(-x_2^2x_4y_5 + x_2^2x_5y_4 + x_4y_2^2y_5 - x_5y_2^2y_4)) - \\
& b_{0,0,-3,0,-2,0,0,0,0,0}^r(x_2^3x_3^2 - x_2^3y_3^2 - 6x_2^2x_3y_2y_3 + x_2(-3x_3^2y_2^2 + 3y_2^2y_3^2) + 2x_3y_2^3y_3) - \\
& b_{0,0,-3,0,0,0,-2,0,0,0}^r(x_2^3x_4^2 - x_2^3y_4^2 - 6x_2^2x_4y_2y_4 + x_2(-3x_4^2y_2^2 + 3y_2^2y_4^2) + 2x_4y_2^3y_4) - \\
& b_{0,0,-3,0,0,0,0,0,2,0}^r(x_2^3x_5^2 - x_2^3y_5^2 + 6x_2^2x_5y_2y_5 + x_2(-3x_5^2y_2^2 + 3y_2^2y_5^2) - 2x_5y_2^3y_5) - \\
& b_{0,0,0,0,-1,0,-1,0,-3,0}^r(x_3(x_4x_5^3 - 3x_4x_5y_5^2 - 3x_5^2y_4y_5 + y_4y_5^3) + y_3(-3x_4x_5^2y_5 + x_4y_5^3 - \\
& x_5^3y_4 + 3x_5y_4y_5^2)) - b_{0,0,0,0,-1,0,-1,0,3,0}^r(x_3(x_4x_5^3 - 3x_4x_5y_5^2 + 3x_5^2y_4y_5 - y_4y_5^3) + \\
& y_3(3x_4x_5^2y_5 - x_4y_5^3 - x_5^3y_4 + 3x_5y_4y_5^2)) - b_{0,0,0,0,-1,0,-3,0,1,0}^r(x_3(x_4^3x_5 + 3x_4^2y_4y_5 - \\
& 3x_4x_5y_4^2 - y_4^3y_5) + y_3(x_4^3y_5 - 3x_4^2x_5y_4 - 3x_4y_4^2y_5 + x_5y_4^3)) - b_{0,0,0,0,-1,0,1,0,-1,1}^r(x_5^2 + \\
& y_5^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) - b_{0,0,0,0,-1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4x_5 + y_4y_5) + y_3(- \\
& x_4y_5 + x_5y_4)) - b_{0,0,0,0,-1,0,3,0,1,0}^r(x_3(x_4^3x_5 - 3x_4^2y_4y_5 - 3x_4x_5y_4^2 + y_4^3y_5) + y_3(x_4^3y_5 + \\
& 3x_4^2x_5y_4 - 3x_4y_4^2y_5 - x_5y_4^3)) - b_{0,0,0,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + \\
& x_5y_4)) - b_{0,0,0,0,-3,0,-1,0,1,0}^r(x_3(-3x_4x_5y_3^2 - 3y_3^2y_4y_5) + x_4(x_3^3x_5 - y_3^3y_5) + y_3(3x_3^2x_4y_5 - \\
& 3x_3^2x_5y_4) + y_4(x_3^3y_5 + x_5y_3^3)) - b_{0,0,0,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + \\
& x_5y_4)) - b_{0,0,0,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) - b_{0,0,0,0,1,0,1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) - b_{0,0,0,0,1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_3(x_4x_5 - y_4y_5) + y_3(- \\
& x_4y_5 - x_5y_4)) - b_{0,0,0,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) - \\
& b_{0,0,0,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - x_5y_4)) - b_{0,0,0,0,3,0,-1,0,1,0}^r(x_3(-3x_4x_5y_3^2 - \\
& 3y_3^2y_4y_5) + x_4(x_3^3x_5 + y_3^3y_5) + y_3(-3x_3^2x_4y_5 + 3x_3^2x_5y_4) + y_4(x_3^3y_5 - x_5y_3^3)) - \\
& b_{0,0,0,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_3(x_4x_5 + y_4y_5) + y_3(-x_4y_5 + x_5y_4)) - b_{0,0,0,1,1,0,-1,0,-1,0}^r(x_2^2 + \\
& y_2^2)(x_3(x_4x_5 - y_4y_5) + y_3(x_4y_5 + x_5y_4)) - b_{0,0,0,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_3(x_4x_5 - y_4y_5) + y_3(-x_4y_5 - \\
& x_5y_4)) - b_{0,0,1,0,-2,0,-2,0,0,0}^r(x_2(x_3^2x_4^2 - x_3^2y_4^2 - 4x_3x_4y_3y_4 - x_4^2y_3^2 + y_3^2y_4^2) + \\
& y_2(2x_3^2x_4y_4 + 2x_3x_4^2y_3 - 2x_3y_3y_4^2 - 2x_4y_3^2y_4)) - b_{0,0,1,0,-2,0,0,0,2,0}^r(x_2(x_3^2x_5^2 - x_3^2y_5^2 + \\
& 4x_3x_5y_3y_5 - x_5^2y_3^2 + y_3^2y_5^2) + y_2(-2x_3^2x_5y_5 + 2x_3x_5^2y_3 - 2x_3y_3y_5^2 + 2x_5y_3^2y_5)) - \\
& b_{0,0,1,0,-4,0,0,0,0,0}^r(x_2(x_3^4 - 6x_3^2y_3^2 + y_3^4) + y_2(4x_3^3y_3 - 4x_3y_3^3)) - b_{0,0,1,0,0,0,-2,0,2,0}^r(x_2(x_4^2x_5^2 - \\
& x_4^2y_5^2 + 4x_4x_5y_4y_5 - x_5^2y_4^2 + y_4^2y_5^2) + y_2(-2x_4^2x_5y_5 + 2x_4x_5^2y_4 - 2x_4y_4y_5^2 + \\
& 2x_5y_4^2y_5)) - b_{0,0,1,0,0,0,-4,0,0,0}^r(x_2(x_4^4 - 6x_4^2y_4^2 + y_4^4) + y_2(4x_4^3y_4 - 4x_4y_4^3)) - \\
& b_{0,0,1,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) - b_{0,0,1,0,0,0,0,0,4,0}^r(x_2(x_5^4 - 6x_5^2y_5^2 + y_5^4) + \\
& y_2(-4x_5^3y_5 + 4x_5y_5^3)) - b_{0,0,1,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) - \\
& b_{0,0,1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) - b_{0,0,1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2(x_4^2 - y_4^2) - \\
& 2x_4y_2y_4) - b_{0,0,1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) - b_{0,0,1,0,0,1,2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) - b_{0,0,1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_3^2 - y_3^2) - 2x_3y_2y_3) - \\
& b_{0,0,1,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2(x_3^2 - y_3^2) - 2x_3y_2y_3) - b_{0,0,1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2(x_3^2 - y_3^2) - \\
& 2x_3y_2y_3) - b_{0,0,1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2(x_5^2 - y_5^2) + 2x_5y_2y_5) - b_{0,0,1,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_2(x_4^2 - y_4^2) - 2x_4y_2y_4) - b_{0,0,1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_3^2 - y_3^2) - 2x_3y_2y_3) - \\
& b_{0,0,2,0,-1,0,-1,0,1,0}^r(x_2(-2x_3x_4y_2y_5 + 2x_3x_5y_2y_4 + 2x_4x_5y_2y_3 + 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 + \\
& x_2^2y_4y_5 - x_4x_5y_2^2 - y_2^2y_4y_5) + y_3(x_2^2x_4y_5 - x_2^2x_5y_4 - x_4y_2^2y_5 + x_5y_2^2y_4)) - \\
& b_{0,0,2,0,1,0,1,0,-1,0}^r(x_2(2x_3x_4y_2y_5 - 2x_3x_5y_2y_4 - 2x_4x_5y_2y_3 - 2y_2y_3y_4y_5) + x_3(x_2^2x_4x_5 +
\end{aligned}$$



$$\begin{aligned}
& x_2^2 y_4 y_5 - x_4 x_5 y_2^2 - y_2^2 y_4 y_5) + y_3(x_2^2 x_4 y_5 - x_2^2 x_5 y_4 - x_4 y_2^2 y_5 + x_5 y_2^2 y_4) - \\
& b_{0,0,3,0,-2,0,0,0,0}^r(x_2^2 x_3^2 - x_2^2 y_3^2 + 6x_2^2 x_3 y_2 y_3 + x_2(-3x_3^2 y_2^2 + 3y_2^2 y_3^2) - 2x_3 y_2^3 y_3) - \\
& b_{0,0,3,0,0,0,-2,0,0,0}^r(x_2^2 x_4^2 - x_2^2 y_4^2 + 6x_2^2 x_4 y_2 y_4 + x_2(-3x_4^2 y_2^2 + 3y_2^2 y_4^2) - 2x_4 y_2^3 y_4) - \\
& b_{0,0,3,0,0,0,0,0,2,0}^r(x_2^2 x_5^2 - x_2^2 y_5^2 - 6x_2^2 x_5 y_2 y_5 + x_2(-3x_5^2 y_2^2 + 3y_2^2 y_5^2) + 2x_5 y_2^3 y_5) - \\
& b_{0,0,5,0,0,0,0,0,0,0}^r x_2(x_2^4 - 10x_2^2 y_2^2 + 5y_2^4) - b_{0,1,-1,0,0,0,0,0,0,1}^r x_2(x_1^2 + y_1^2)(x_5^2 + y_5^2) - \\
& b_{0,1,-1,0,0,0,0,1,0,0}^r x_2(x_1^2 + y_1^2)(x_4^2 + y_4^2) - b_{0,1,-1,0,0,1,0,0,0,0}^r x_2(x_1^2 + y_1^2)(x_3^2 + y_3^2) - \\
& b_{0,1,-1,1,0,0,0,0,0,0}^r x_2(x_1^2 + y_1^2)(x_2^2 + y_2^2) - b_{0,1,0,0,-1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_3(x_4 x_5 + y_4 y_5) + y_3(- \\
& x_4 y_5 + x_5 y_4)) - b_{0,1,0,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(x_4 y_5 + x_5 y_4)) - \\
& b_{0,1,0,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_3(x_4 x_5 - y_4 y_5) + y_3(-x_4 y_5 - x_5 y_4)) - b_{0,1,1,0,0,0,0,0,-2,0}^r(x_1^2 + \\
& y_1^2)(x_2(x_5^2 - y_5^2) + 2x_5 y_2 y_5) - b_{0,1,1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_4^2 - y_4^2) - 2x_4 y_2 y_4) - \\
& b_{0,1,1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_3^2 - y_3^2) - 2x_3 y_2 y_3) - b_{0,2,-1,0,0,0,0,0,0,0}^r x_2(x_1^2 + y_1^2)^2 - \\
& b_{1,0,-1,0,-1,0,1,0,-1,0}^r(x_1(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 + x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 - \\
& x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + y_1(x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4)) - b_{1,0,-1,0,1,0,-1,0,-1,0}^r(x_1(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 + \\
& x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + y_1(x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - \\
& x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4)) - \\
& b_{1,0,-1,0,1,0,1,0,1,0}^r(x_1(x_2 x_3 x_4 x_5 - x_2 x_3 y_4 y_5 - x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + \\
& x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + y_1(-x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - \\
& x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 - x_5 y_2 y_3 y_4)) - b_{1,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2^2 - y_2^2) + 2x_2 y_1 y_2) - \\
& b_{1,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2^2 - y_2^2) + 2x_2 y_1 y_2) - b_{1,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_2^2 - y_2^2) + \\
& 2x_2 y_1 y_2) - b_{1,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_2^2 - y_2^2) + 2x_2 y_1 y_2) - b_{1,0,0,0,-2,0,-2,0,0,0}^r(x_1(x_3^2 x_4^2 - \\
& x_3^2 y_4^2 - 4x_3 x_4 y_3 y_4 - x_4^2 y_3^2 + y_3^2 y_4^2) + y_1(2x_3^2 x_4 y_4 + 2x_3 x_4^2 y_3 - 2x_3 y_3 y_4^2 - \\
& 2x_4 y_3^2 y_4)) - b_{1,0,0,0,-2,0,0,0,2,0}^r(x_1(x_3^2 x_5^2 - x_3^2 y_5^2 + 4x_3 x_5 y_3 y_5 - x_5^2 y_3^2 + y_3^2 y_5^2) + y_1(- \\
& 2x_3^2 x_5 y_5 + 2x_3 x_5^2 y_3 - 2x_3 y_3 y_5^2 + 2x_5 y_3^2 y_5)) - b_{1,0,0,0,-4,0,0,0,0,0}^r(x_1(x_3^4 - 6x_3^2 y_3^2 + y_3^4) + \\
& y_1(4x_3^3 y_3 - 4x_3 y_3^3)) - b_{1,0,0,0,0,0,-2,0,2,0}^r(x_1(x_4^2 x_5^2 - x_4^2 y_5^2 + 4x_4 x_5 y_4 y_5 - x_5^2 y_4^2 + \\
& y_4^2 y_5^2) + y_1(-2x_4^2 x_5 y_5 + 2x_4 x_5^2 y_4 - 2x_4 y_4 y_5^2 + 2x_5 y_4^2 y_5)) - b_{1,0,0,0,0,0,-4,0,0,0}^r(x_1(x_4^4 - \\
& 6x_4^2 y_4^2 + y_4^4) + y_1(4x_4^3 y_4 - 4x_4 y_4^3)) - b_{1,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_5^2 - y_5^2) + 2x_5 y_1 y_5) - \\
& b_{1,0,0,0,0,0,0,0,4,0}^r(x_1(x_5^4 - 6x_5^2 y_5^2 + y_5^4) + y_1(-4x_5^3 y_5 + 4x_5 y_5^3)) - b_{1,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_5^2 - y_5^2) + 2x_5 y_1 y_5) - b_{1,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4^2 - y_4^2) - 2x_4 y_1 y_4) - \\
& b_{1,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_4^2 - y_4^2) - 2x_4 y_1 y_4) - b_{1,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1(x_5^2 - y_5^2) + \\
& 2x_5 y_1 y_5) - b_{1,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_4^2 - y_4^2) - 2x_4 y_1 y_4) - b_{1,0,0,0,2,0,0,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1(x_3^2 - y_3^2) - 2x_3 y_1 y_3) - b_{1,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_3^2 - y_3^2) - 2x_3 y_1 y_3) - \\
& b_{1,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_3^2 - y_3^2) - 2x_3 y_1 y_3) - b_{1,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1(x_5^2 - y_5^2) + \\
& 2x_5 y_1 y_5) - b_{1,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_4^2 - y_4^2) - 2x_4 y_1 y_4) - b_{1,0,0,1,2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_3^2 - y_3^2) - 2x_3 y_1 y_3) - b_{1,0,1,0,-1,0,-1,0,1,0}^r(x_1(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - \\
& x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + y_1(-x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4)) - \\
& b_{1,0,1,0,1,0,1,0,-1,0}^r(x_1(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - \\
& x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + y_1(x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 - \\
& x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4)) - b_{1,0,2,0,-2,0,0,0,0,0}^r(x_1(x_2^2 x_3^2 - x_2^2 y_3^2 + 4x_2 x_3 y_2 y_3 - \\
& x_3^2 y_2^2 + y_2^2 y_3^2) + y_1(2x_2^2 x_3 y_3 - 2x_2 x_3^2 y_2 + 2x_2 y_2 y_3^2 - 2x_3 y_2^2 y_3)) - \\
& b_{1,0,2,0,0,0,-2,0,0,0}^r(x_1(x_2^2 x_4^2 - x_2^2 y_4^2 + 4x_2 x_4 y_2 y_4 - x_4^2 y_2^2 + y_2^2 y_4^2) + y_1(2x_2^2 x_4 y_4 - \\
& 2x_2 x_4^2 y_2 + 2x_2 y_2 y_4^2 - 2x_4 y_2^2 y_4)) - b_{1,0,2,0,0,0,0,0,2,0}^r(x_1(x_2^2 x_5^2 - x_2^2 y_5^2 - 4x_2 x_5 y_2 y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_5^2 y_2^2 + y_2^2 y_5^2) + y_1(-2x_2^2 x_5 y_5 - 2x_2 x_5^2 y_2 + 2x_2 y_2 y_5^2 + 2x_5 y_2^2 y_5) - \\
& b_{1,0,4,0,0,0,0,0,0}^r(x_1(x_2^4 - 6x_2^2 y_2^2 + y_2^4) + y_1(-4x_2^3 y_2 + 4x_2 y_2^3)) - b_{1,1,-2,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1(x_2^2 - y_2^2) + 2x_2 y_1 y_2) - b_{1,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_5^2 - y_5^2) + 2x_5 y_1 y_5) - \\
& b_{1,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_4^2 - y_4^2) - 2x_4 y_1 y_4) - b_{1,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3^2 - y_3^2) - \\
& 2x_3 y_1 y_3) - b_{2,0,-1,0,0,0,0,0,-2,0}^r(x_1(4x_2 x_5 y_1 y_5 + 2x_5^2 y_1 y_2 - 2y_1 y_2 y_5^2) + x_2(x_1^2 x_5^2 - x_1^2 y_5^2 - \\
& x_5^2 y_1^2 + y_1^2 y_5^2) + y_2(-2x_1^2 x_5 y_5 + 2x_5 y_1^2 y_5)) - b_{2,0,-1,0,0,0,2,0,0,0}^r(x_1(-4x_2 x_4 y_1 y_4 + \\
& 2x_4^2 y_1 y_2 - 2y_1 y_2 y_4^2) + x_2(x_1^2 x_4^2 - x_1^2 y_4^2 - x_4^2 y_1^2 + y_1^2 y_4^2) + y_2(2x_1^2 x_4 y_4 - \\
& 2x_4 y_1^2 y_4)) - b_{2,0,-1,0,2,0,0,0,0,0}^r(x_1(-4x_2 x_3 y_1 y_3 + 2x_3^2 y_1 y_2 - 2y_1 y_2 y_3^2) + x_2(x_1^2 x_3^2 - \\
& x_1^2 y_3^2 - x_3^2 y_1^2 + y_1^2 y_3^2) + y_2(2x_1^2 x_3 y_3 - 2x_3 y_1^2 y_3)) - b_{2,0,-3,0,0,0,0,0,0,0}^r(x_1^2 x_2^3 + \\
& x_1(6x_2^2 y_1 y_2 - 2y_1 y_2^3) - x_2^3 y_1^2 + x_2(-3x_1^2 y_2^2 + 3y_1^2 y_2^2)) - b_{2,0,0,0,-1,0,-1,0,1,0}^r(x_1(- \\
& 2x_3 x_4 y_1 y_5 + 2x_3 x_5 y_1 y_4 + 2x_4 x_5 y_1 y_3 + 2y_1 y_3 y_4 y_5) + x_3(x_1^2 x_4 x_5 + x_1^2 y_4 y_5 - x_4 x_5 y_1^2 - \\
& y_1^2 y_4 y_5) + y_3(x_1^2 x_4 y_5 - x_1^2 x_5 y_4 - x_4 y_1^2 y_5 + x_5 y_1^2 y_4)) - b_{2,0,0,0,1,0,1,0,-1,0}^r(x_1(2x_3 x_4 y_1 y_5 - \\
& 2x_3 x_5 y_1 y_4 - 2x_4 x_5 y_1 y_3 - 2y_1 y_3 y_4 y_5) + x_3(x_1^2 x_4 x_5 + x_1^2 y_4 y_5 - x_4 x_5 y_1^2 - y_1^2 y_4 y_5) + \\
& y_3(x_1^2 x_4 y_5 - x_1^2 x_5 y_4 - x_4 y_1^2 y_5 + x_5 y_1^2 y_4)) - b_{2,0,1,0,-2,0,0,0,0,0}^r(x_1(4x_2 x_3 y_1 y_3 - 2x_3^2 y_1 y_2 + \\
& 2y_1 y_2 y_3^2) + x_2(x_1^2 x_3^2 - x_1^2 y_3^2 - x_3^2 y_1^2 + y_1^2 y_3^2) + y_2(2x_1^2 x_3 y_3 - 2x_3 y_1^2 y_3)) - \\
& b_{2,0,1,0,0,0,-2,0,0,0}^r(x_1(4x_2 x_4 y_1 y_4 - 2x_4^2 y_1 y_2 + 2y_1 y_2 y_4^2) + x_2(x_1^2 x_4^2 - x_1^2 y_4^2 - x_4^2 y_1^2 + \\
& y_1^2 y_4^2) + y_2(2x_1^2 x_4 y_4 - 2x_4 y_1^2 y_4)) - b_{2,0,1,0,0,0,0,0,2,0}^r(x_1(-4x_2 x_5 y_1 y_5 - 2x_5^2 y_1 y_2 + \\
& 2y_1 y_2 y_5^2) + x_2(x_1^2 x_5^2 - x_1^2 y_5^2 - x_5^2 y_1^2 + y_1^2 y_5^2) + y_2(-2x_1^2 x_5 y_5 + 2x_5 y_1^2 y_5)) - \\
& b_{2,0,3,0,0,0,0,0,0,0}^r(x_1^2 x_2^3 + x_1(-6x_2^2 y_1 y_2 + 2y_1 y_2^3) - x_2^3 y_1^2 + x_2(-3x_1^2 y_2^2 + 3y_1^2 y_2^2)) - \\
& b_{3,0,0,0,-2,0,0,0,0,0}^r(x_1^3 x_3^3 - x_1^3 y_3^3 + 6x_1^2 x_3 y_1 y_3 + x_1(-3x_3^2 y_1^2 + 3y_1^2 y_3^2) - 2x_3 y_1^3 y_3) - \\
& b_{3,0,0,0,0,0,-2,0,0,0}^r(x_1^3 x_4^3 - x_1^3 y_4^3 + 6x_1^2 x_4 y_1 y_4 + x_1(-3x_4^2 y_1^2 + 3y_1^2 y_4^2) - 2x_4 y_1^3 y_4) - \\
& b_{3,0,0,0,0,0,0,0,2,0}^r(x_1^3 x_5^3 - x_1^3 y_5^3 + 6x_1^2 x_5 y_1 y_5 + x_1(-3x_5^2 y_1^2 + 3y_1^2 y_5^2) + 2x_5 y_1^3 y_5) - \\
& b_{3,0,2,0,0,0,0,0,0,0}^r(x_1^3 x_2^3 - x_1^3 y_2^3 + 6x_1^2 x_2 y_1 y_2 + x_1(-3x_2^2 y_1^2 + 3y_1^2 y_2^2) + 2x_2 y_1^3 y_2) - \\
& b_{4,0,1,0,0,0,0,0,0,0}^r(-4x_1^3 y_1 y_2 + 4x_1 y_1^3 y_2 + x_2(x_1^4 - 6x_1^2 y_1^2 + y_1^4)) - b_{5,0,0,0,0,0,0,0,0,0}^r x_1(x_1^4 - \\
& 10x_1^2 y_1^2 + 5y_1^4)
\end{aligned}$$

## 5.7 Order: 6

Number of fitting parameters:  $H_{XX}$ : 672 (234 from  $H_{++}$ , 438 from  $H_{+-}$ ),  $H_{XY}$ : 438 (all from  $H_{+-}$ ),  $H_{YY}$ : 438 (all from  $H_{+-}$ ).

### Polar e-coordinates:

$$\begin{aligned}
H_{XX}^{(6)} = & a_{0,0,0,0,0,0,0,0,0,3}^r \rho_5^6 + a_{0,0,0,0,0,0,0,0,6,0}^r \rho_5^6 \cos(6\phi_5) + a_{0,0,0,0,0,0,0,1,0,2}^r \rho_4^2 \rho_5^4 + \\
& a_{0,0,0,0,0,0,0,2,0,1}^r \rho_4^4 \rho_5^2 + a_{0,0,0,0,0,0,0,3,0,0}^r \rho_4^6 + a_{0,0,0,0,0,0,2,0,-4,0}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 - 4\phi_5) + \\
& a_{0,0,0,0,0,0,2,0,2,1}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,0,2,1,2,0}^r \rho_4^4 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + \\
& a_{0,0,0,0,0,0,4,0,-2,0}^r \rho_4^4 \rho_5^2 \cos(4\phi_4 - 2\phi_5) + a_{0,0,0,0,0,0,6,0,0,0}^r \rho_4^6 \cos(6\phi_4) + \\
& a_{0,0,0,0,0,1,0,0,0,2}^r \rho_3^2 \rho_5^4 + a_{0,0,0,0,0,1,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 + a_{0,0,0,0,0,1,0,2,0,0}^r \rho_3^2 \rho_4^4 + \\
& a_{0,0,0,0,0,1,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,2,0,0,0,1}^r \rho_3^4 \rho_5^2 + \\
& a_{0,0,0,0,0,2,0,1,0,0}^r \rho_3^4 \rho_4^2 + a_{0,0,0,0,0,3,0,0,0,0}^r \rho_3^6 + a_{0,0,0,0,2,0,-2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 - \\
& 2\phi_4) + a_{0,0,0,0,2,0,-2,1,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,0,2,0,0,0,-4,0}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 - 4\phi_5) + \\
& a_{0,0,0,0,2,0,0,0,2,1}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 + 2\phi_5) + a_{0,0,0,0,2,0,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + \\
& a_{0,0,0,0,2,0,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_4 - 2\phi_5) + a_{0,0,0,0,2,0,4,0,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 + \\
& 4\phi_4) + a_{0,0,0,0,2,1,-2,0,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,0,2,1,0,0,2,0}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 + 2\phi_5) + \\
& a_{0,0,0,0,4,0,0,0,-2,0}^r \rho_3^4 \rho_5^2 \cos(4\phi_3 - 2\phi_5) + a_{0,0,0,0,4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(4\phi_3 + 2\phi_4) +
\end{aligned}$$

$$\begin{aligned}
& a_{0,0,0,0,6,0,0,0,0,0}^r \rho_3^6 \cos(6\phi_3) + a_{0,0,0,1,0,0,0,0,0,2}^r \rho_2^2 \rho_5^4 + a_{0,0,0,1,0,0,0,1,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 + \\
& a_{0,0,0,1,0,0,0,2,0,0}^r \rho_2^2 \rho_4^4 + a_{0,0,0,1,0,0,2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + \\
& a_{0,0,0,1,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 + a_{0,0,0,1,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 + a_{0,0,0,1,0,2,0,0,0,0}^r \rho_2^2 \rho_3^4 + \\
& a_{0,0,0,1,2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,1,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 + \\
& 2\phi_5) + a_{0,0,0,2,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 + a_{0,0,0,2,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 + a_{0,0,0,2,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 + \\
& a_{0,0,0,3,0,0,0,0,0,0}^r \rho_2^6 + a_{0,0,1,0,-1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_2 + \phi_3 + \phi_4 + 3\phi_5) + \\
& a_{0,0,1,0,-1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 - \phi_4 + 3\phi_5) + \\
& a_{0,0,1,0,-1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 - \phi_3 - 3\phi_4 + \phi_5) + \\
& a_{0,0,1,0,-1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,0,-1,0,1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,0,-1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 - \phi_3 + 3\phi_4 + \phi_5) + \\
& a_{0,0,1,0,-1,1,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,0,-3,0,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{0,0,1,0,1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,1,0,1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,1,0,1,1,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,1,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,1,0,3,0,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{0,0,1,1,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,1,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,1,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{0,0,2,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(- \\
& 2\phi_2 + 2\phi_3 + 2\phi_4) + a_{0,0,2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_3 + 2\phi_5) + \\
& a_{0,0,2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 - 4\phi_3) + a_{0,0,2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 - 2\phi_4 + \\
& 2\phi_5) + a_{0,0,2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 - 4\phi_4) + a_{0,0,2,0,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 - 2\phi_5) + \\
& a_{0,0,2,0,0,0,0,0,4,0}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 + 4\phi_5) + a_{0,0,2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + \\
& a_{0,0,2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 + 2\phi_4) + \\
& a_{0,0,2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,0,2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + \\
& 2\phi_4) + a_{0,0,2,0,2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,0,2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + 2\phi_3) + a_{0,0,2,0,2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,0,2,1,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,0,2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_2 + 2\phi_4) + \\
& a_{0,0,2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + a_{0,0,3,0,-1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 - \phi_3 - \phi_4 + \\
& \phi_5) + a_{0,0,3,0,1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,4,0,-2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(4\phi_2 - 2\phi_3) + a_{0,0,4,0,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(4\phi_2 - 2\phi_4) + \\
& a_{0,0,4,0,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \cos(4\phi_2 + 2\phi_5) + a_{0,0,6,0,0,0,0,0,0,0}^r \rho_2^6 \cos(6\phi_2) + \\
& a_{0,1,0,0,0,0,0,0,0,2}^r \rho_1^2 \rho_5^4 + a_{0,1,0,0,0,0,0,1,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 + a_{0,1,0,0,0,0,0,2,0,0}^r \rho_1^2 \rho_4^4 + \\
& a_{0,1,0,0,0,0,2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,1,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 + \\
& a_{0,1,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 + a_{0,1,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^4 + \\
& a_{0,1,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,1,0,0,2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 + \\
& 2\phi_5) + a_{0,1,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 + a_{0,1,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 + \\
& a_{0,1,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 + a_{0,1,0,2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 +
\end{aligned}$$

$$\begin{aligned}
& a_{0,1,1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,1,1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,1,1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,1,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,1,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_2 + \\
& 2\phi_4) + a_{0,1,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + a_{0,2,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 + \\
& a_{0,2,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 + a_{0,2,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 + a_{0,2,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 + \\
& a_{0,3,0,0,0,0,0,0,0,0}^r \rho_1^6 + a_{1,0,-1,0,-2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5) + \\
& a_{1,0,-1,0,-2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 - 2\phi_3 + 2\phi_4) + \\
& a_{1,0,-1,0,0,0,-2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_4 + 2\phi_5) + \\
& a_{1,0,-1,0,0,0,0,0,2}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,0,0,1,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,0,2,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,0,2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + \\
& 2\phi_4 + 2\phi_5) + a_{1,0,-1,0,0,1,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,1,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_4) + \\
& a_{1,0,-1,0,2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_5) + \\
& a_{1,0,-1,1,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,1,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,1,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,2,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,-2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,-2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,-3,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(-\phi_1 + 3\phi_2 + 2\phi_3) + a_{1,0,-3,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(-\phi_1 + \\
& 3\phi_2 + 2\phi_4) + a_{1,0,-3,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - 3\phi_2 + 2\phi_5) + \\
& a_{1,0,0,0,-1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_1 + \phi_3 + \phi_4 + 3\phi_5) + \\
& a_{1,0,0,0,-1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 - \phi_4 + 3\phi_5) + \\
& a_{1,0,0,0,-1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 - 3\phi_4 + \phi_5) + \\
& a_{1,0,0,0,-1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + 3\phi_4 + \phi_5) + \\
& a_{1,0,0,0,-1,1,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-3,0,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,0,-1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,1,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,1,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,3,0,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,0,1,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,1,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,1,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,1,0,-2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_4) + \\
& a_{1,0,1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{1,0,1,0,-4,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \phi_2 - 4\phi_3) + a_{1,0,1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_4 + 2\phi_5) + a_{1,0,1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \phi_2 - 4\phi_4) + \\
& a_{1,0,1,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 - 2\phi_5) + a_{1,0,1,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 + 4\phi_5) + a_{1,0,1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,0,2,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + \\
& a_{1,0,1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,0,1,0,2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,0,1,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,1,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,0,2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 - \phi_5) + a_{1,0,3,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + 3\phi_2 - 2\phi_3) + a_{1,0,3,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + 3\phi_2 - 2\phi_4) + a_{1,0,3,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + 3\phi_2 + 2\phi_5) + \\
& a_{1,0,5,0,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 + 5\phi_2) + a_{1,1,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2) + a_{1,1,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,1,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,1,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \cos(\phi_1 - \phi_2) + a_{1,1,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + a_{1,1,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,1,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + a_{1,1,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + a_{1,1,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,1,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,2,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(\phi_1 - \phi_2) + \\
& a_{2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) + a_{2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{2,0,-2,0,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 - 2\phi_2) + a_{2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 - 2\phi_2) + a_{2,0,-2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 - 2\phi_2) + a_{2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(-2\phi_1 + 2\phi_3 + 2\phi_4) + \\
& a_{2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_3 + 2\phi_5) + a_{2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 - 4\phi_3) + a_{2,0,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_4 + 2\phi_5) + \\
& a_{2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 - 4\phi_4) + a_{2,0,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 + 4\phi_5) + a_{2,0,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_4) + a_{2,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 + 2\phi_4) + a_{2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + a_{2,0,0,0,2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + 2\phi_3) + a_{2,0,0,0,2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 + 2\phi_3) + a_{2,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + a_{2,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5) + a_{2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_3) + a_{2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_4) +
\end{aligned}$$

$$\begin{aligned}
& a_{2,0,2,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_2 + 2\phi_5) + a_{2,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 + \\
& 4\phi_2) + a_{2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_1 - 2\phi_2) + a_{2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + a_{2,1,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{3,0,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(-3\phi_1 + \phi_2 + 2\phi_5) + a_{3,0,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 - \\
& \phi_2 + 2\phi_4) + a_{3,0,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 - \phi_2 + 2\phi_3) + \\
& a_{3,0,-3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 - 3\phi_2) + a_{3,0,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 - \phi_3 - \phi_4 + \\
& \phi_5) + a_{3,0,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{3,0,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 + \phi_2 - 2\phi_3) + a_{3,0,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 + \\
& \phi_2 - 2\phi_4) + a_{3,0,1,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 + \phi_2 + 2\phi_5) + \\
& a_{3,0,3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 + 3\phi_2) + a_{4,0,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(4\phi_1 - 2\phi_3) + \\
& a_{4,0,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(4\phi_1 - 2\phi_4) + a_{4,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \cos(4\phi_1 + 2\phi_5) + \\
& a_{4,0,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(4\phi_1 + 2\phi_2) + a_{5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(5\phi_1 + \phi_2) + \\
& a_{6,0,0,0,0,0,0,0,0,0}^r \rho_1^6 \cos(6\phi_1) + b_{-1,0,-1,0,-2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4) + \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_5) + \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \phi_2 + 4\phi_3) + b_{-1,0,-1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \\
& \phi_2 + 2\phi_4 - 2\phi_5) + b_{-1,0,-1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \phi_2 + 4\phi_4) + \\
& b_{-1,0,-1,0,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,-1,0,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 - \\
& 4\phi_5) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_4) + b_{-1,0,-1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \\
& \phi_2 - 2\phi_4) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_4) + \\
& b_{-1,0,-1,0,2,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_3) + \\
& b_{-1,0,-1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_3) + b_{-1,0,-1,0,2,1,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \\
& \phi_2 - 2\phi_3) + b_{-1,0,-1,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_4) + b_{-1,0,-1,1,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + \\
& \phi_2 - 2\phi_3) + b_{-1,0,-2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,-2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,-2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,-3,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + 3\phi_2) + b_{-1,0,-3,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + 3\phi_2) + \\
& b_{-1,0,-3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + 3\phi_2) + b_{-1,0,-3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 + 3\phi_2) + \\
& b_{-1,0,0,0,-1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,-1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,-1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 + 3\phi_5) + \\
& b_{-1,0,0,0,-1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 - 3\phi_5) + \\
& b_{-1,0,0,0,-1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - 3\phi_4 + \phi_5) + \\
& b_{-1,0,0,0,-1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,-3,0,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,-3,0,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + 3\phi_3 - \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 + 3\phi_5) + \\
& b_{-1,0,0,0,1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 - 3\phi_5) + \\
& b_{-1,0,0,0,1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + 3\phi_4 - \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) + b_{-1,0,0,0,1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(- \\
& \phi_1 + \phi_3 + 3\phi_4 + \phi_5) + b_{-1,0,0,0,1,1,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,3,0,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,3,0,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(-\phi_1 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,0,1,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,1,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_3) + \\
& b_{-1,0,1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_3) + b_{-1,0,1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 - \\
& \phi_2 + 2\phi_3) + b_{-1,0,1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_4) + \\
& b_{-1,0,1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 - \phi_2 + 2\phi_4) + b_{-1,0,1,0,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 - \phi_2 + \\
& 4\phi_5) + b_{-1,0,1,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(-\phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(- \\
& \phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 - 2\phi_4 + 2\phi_5) + \\
& b_{-1,0,1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(-\phi_1 + \phi_2 + 4\phi_4) + b_{-1,0,1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \\
& \phi_2 + 2\phi_4) + b_{-1,0,1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 - 2\phi_3 + 2\phi_5) + \\
& b_{-1,0,1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4) + b_{-1,0,1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(- \\
& \phi_1 + \phi_2 + 4\phi_3) + b_{-1,0,1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - \phi_2 + 2\phi_3) + \\
& b_{-1,0,1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_4) + b_{-1,0,1,1,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(-\phi_1 + \\
& \phi_2 + 2\phi_5) + b_{-1,0,2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,3,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - 3\phi_2) + b_{-1,0,3,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - 3\phi_2) + \\
& b_{-1,0,3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - 3\phi_2) + b_{-1,0,3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 - 3\phi_2) + \\
& b_{-1,1,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) + b_{-1,1,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 + \\
& \phi_2 - 2\phi_4) + b_{-1,1,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 - 2\phi_3) + \\
& b_{-1,1,-3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_3^2 \cos(\phi_1 + 3\phi_2) + b_{-1,1,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 - \\
& \phi_5) + b_{-1,1,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,1,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2 + 2\phi_3) + b_{-1,1,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 - \\
& \phi_2 + 2\phi_4) + b_{-1,1,1,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,1,3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(\phi_1 - 3\phi_2) + b_{-2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \\
& \phi_3 - \phi_4 + \phi_5) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{-2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-2,0,-2,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_2) + b_{-2,0,-2,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + \\
& 2\phi_2) + b_{-2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_2) + b_{-2,0,-2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 + \\
& 2\phi_2) + b_{-2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + 2\phi_3 + 2\phi_4) + \\
& b_{-2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_3 - 2\phi_5) + b_{-2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 + \\
& 4\phi_3) + b_{-2,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_4 - 2\phi_5) + \\
& b_{-2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 + 4\phi_4) + b_{-2,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 + 2\phi_5) + \\
& b_{-2,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 - 4\phi_5) + b_{-2,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_5) + \\
& b_{-2,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_4) + b_{-2,0,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 - 2\phi_4) + \\
& b_{-2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_5) + b_{-2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 -
\end{aligned}$$

$$\begin{aligned}
& 2\phi_4) + b_{-2,0,0,0,2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_3) + \\
& b_{-2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 - 2\phi_3) + b_{-2,0,0,0,2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 - 2\phi_3) + \\
& b_{-2,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_5) + b_{-2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 - \\
& 2\phi_4) + b_{-2,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 - 2\phi_3) + \\
& b_{-2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 - 2\phi_2 + 2\phi_3) + \\
& b_{-2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 - 2\phi_2 + 2\phi_4) + b_{-2,0,2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(- \\
& 2\phi_1 + 2\phi_2 + 2\phi_5) + b_{-2,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 - 4\phi_2) + \\
& b_{-2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_1 + 2\phi_2) + b_{-2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \cos(2\phi_1 + 2\phi_5) + \\
& b_{-2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_1 - 2\phi_4) + b_{-2,1,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_1 - 2\phi_3) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 + \phi_2) + b_{-3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 + \phi_2) + \\
& b_{-3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 + \phi_2) + b_{-3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 + \phi_2) + \\
& b_{-3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{-3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{-3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(-3\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 - \phi_2 + 2\phi_5) + b_{-3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(-3\phi_1 + \\
& \phi_2 + 2\phi_4) + b_{-3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(-3\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{-3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(3\phi_1 + \phi_2) + b_{-4,0,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \cos(4\phi_1) + \\
& b_{-4,0,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \cos(4\phi_1) + b_{-4,0,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(4\phi_1) + \\
& b_{-4,0,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(4\phi_1) + b_{-4,1,0,0,0,0,0,0,0,0}^r \rho_1^6 \cos(4\phi_1) + \\
& b_{-5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(5\phi_1 - \phi_2) + b_{0,0,-1,0,-1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 - \\
& \phi_5) + b_{0,0,-1,0,-1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{0,0,-1,0,-1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 + 3\phi_5) + \\
& b_{0,0,-1,0,-1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - 3\phi_5) + \\
& b_{0,0,-1,0,-1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 - 3\phi_4 + \phi_5) + \\
& b_{0,0,-1,0,-1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-1,0,-3,0,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + 3\phi_3 - \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 + 3\phi_5) + \\
& b_{0,0,-1,0,1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - 3\phi_5) + \\
& b_{0,0,-1,0,1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 - \phi_3 + 3\phi_4 - \phi_5) + \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) + b_{0,0,-1,0,1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(- \\
& \phi_2 + \phi_3 + 3\phi_4 + \phi_5) + b_{0,0,-1,0,1,1,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,-1,0,3,0,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-1,0,3,0,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(-\phi_2 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-1,1,-1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,1,1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,-2,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + 2\phi_3 + 2\phi_4) + \\
& b_{0,0,-2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_3 - 2\phi_5) + b_{0,0,-2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 +
\end{aligned}$$



$$\begin{aligned}
& 4\phi_3) + b_{0,0,-2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_4 - 2\phi_5) + \\
& b_{0,0,-2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 + 4\phi_4) + b_{0,0,-2,0,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 + 2\phi_5) + \\
& b_{0,0,-2,0,0,0,0,0,4,0}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 - 4\phi_5) + b_{0,0,-2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_5) + \\
& b_{0,0,-2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 - 2\phi_4) + b_{0,0,-2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 - 2\phi_4) + \\
& b_{0,0,-2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_5) + b_{0,0,-2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 - \\
& 2\phi_4) + b_{0,0,-2,0,2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_3) + \\
& b_{0,0,-2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 - 2\phi_3) + b_{0,0,-2,0,2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 - 2\phi_3) + \\
& b_{0,0,-2,1,0,0,0,0,-2,0}^r \rho_2^2 \rho_5^2 \cos(2\phi_2 + 2\phi_5) + b_{0,0,-2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_2 - 2\phi_4) + \\
& b_{0,0,-2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_2 - 2\phi_3) + b_{0,0,-3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 + \phi_3 - \\
& \phi_4 + \phi_5) + b_{0,0,-3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(-3\phi_2 + \phi_3 + \phi_4 + \phi_5) + b_{0,0,-4,0,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \cos(4\phi_2) + \\
& b_{0,0,-4,0,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \cos(4\phi_2) + b_{0,0,-4,0,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(4\phi_2) + \\
& b_{0,0,-4,1,0,0,0,0,0,0}^r \rho_2^6 \cos(4\phi_2) + b_{0,0,0,0,-2,0,-2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_4 + 2\phi_5) + \\
& b_{0,0,0,0,-2,0,0,0,0,2}^r \rho_3^2 \rho_4^4 \cos(2\phi_3) + b_{0,0,0,0,-2,0,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3) + \\
& b_{0,0,0,0,-2,0,0,2,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3) + b_{0,0,0,0,-2,0,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(-2\phi_3 + 2\phi_4 + 2\phi_5) + \\
& b_{0,0,0,0,-2,1,0,0,0,1}^r \rho_3^4 \rho_5^2 \cos(2\phi_3) + b_{0,0,0,0,-2,1,0,1,0,0}^r \rho_3^4 \rho_4^2 \cos(2\phi_3) + \\
& b_{0,0,0,0,-2,2,0,0,0,0}^r \rho_3^6 \cos(2\phi_3) + b_{0,0,0,0,-4,0,0,0,-2,0}^r \rho_3^4 \rho_5^2 \cos(4\phi_3 + 2\phi_5) + \\
& b_{0,0,0,0,-4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(4\phi_3 - 2\phi_4) + b_{0,0,0,0,0,0,-2,0,0,2}^r \rho_4^2 \rho_5^4 \cos(2\phi_4) + \\
& b_{0,0,0,0,0,0,-2,1,0,1}^r \rho_4^4 \rho_5^2 \cos(2\phi_4) + b_{0,0,0,0,0,0,-2,2,0,0}^r \rho_4^6 \cos(2\phi_4) + \\
& b_{0,0,0,0,0,0,-4,0,-2,0}^r \rho_4^4 \rho_5^2 \cos(4\phi_4 + 2\phi_5) + b_{0,0,0,0,0,0,0,0,-4,1}^r \rho_5^6 \cos(4\phi_5) + \\
& b_{0,0,0,0,0,0,0,0,2,2}^r \rho_5^6 \cos(2\phi_5) + b_{0,0,0,0,0,0,0,0,1,-4,0}^r \rho_4^2 \rho_5^4 \cos(4\phi_5) + \\
& b_{0,0,0,0,0,0,0,1,2,1}^r \rho_4^4 \rho_5^4 \cos(2\phi_5) + b_{0,0,0,0,0,0,0,2,2,0}^r \rho_4^4 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,0,0,0,0,0,2,0,-2,1}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 - 2\phi_5) + b_{0,0,0,0,0,2,0,4,0}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 + 4\phi_5) + \\
& b_{0,0,0,0,0,0,2,1,-2,0}^r \rho_4^4 \rho_5^2 \cos(2\phi_4 - 2\phi_5) + b_{0,0,0,0,0,0,4,0,0,1}^r \rho_4^4 \rho_5^2 \cos(4\phi_4) + \\
& b_{0,0,0,0,0,0,4,1,0,0}^r \rho_4^6 \cos(4\phi_4) + b_{0,0,0,0,0,1,-2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_4) + \\
& b_{0,0,0,0,0,1,-2,1,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_4) + b_{0,0,0,0,0,1,0,0,-4,0}^r \rho_3^2 \rho_5^4 \cos(4\phi_5) + \\
& b_{0,0,0,0,0,1,0,0,2,1}^r \rho_3^2 \rho_4^4 \cos(2\phi_5) + b_{0,0,0,0,0,1,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,0,0,0,0,1,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 - 2\phi_5) + b_{0,0,0,0,0,1,4,0,0,0}^r \rho_3^2 \rho_4^4 \cos(4\phi_4) + \\
& b_{0,0,0,0,0,2,-2,0,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_4) + b_{0,0,0,0,0,2,0,0,2,0}^r \rho_3^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,0,0,0,0,2,0,-2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 - 2\phi_4 + 2\phi_5) + b_{0,0,0,0,2,0,-4,0,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 - \\
& 4\phi_4) + b_{0,0,0,0,2,0,0,0,-2,1}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 - 2\phi_5) + b_{0,0,0,0,2,0,0,4,0}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 + 4\phi_5) + \\
& b_{0,0,0,0,2,0,0,1,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 - 2\phi_5) + b_{0,0,0,0,2,0,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + \\
& 2\phi_4) + b_{0,0,0,0,2,0,2,1,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 + 2\phi_4) + b_{0,0,0,0,2,1,0,0,-2,0}^r \rho_3^4 \rho_5^2 \cos(2\phi_3 - 2\phi_5) + \\
& b_{0,0,0,0,2,1,2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(2\phi_3 + 2\phi_4) + b_{0,0,0,0,4,0,0,0,0,1}^r \rho_3^4 \rho_5^2 \cos(4\phi_3) + \\
& b_{0,0,0,0,4,0,0,1,0,0}^r \rho_3^4 \rho_4^2 \cos(4\phi_3) + b_{0,0,0,0,4,1,0,0,0,0}^r \rho_3^6 \cos(4\phi_3) + \\
& b_{0,0,0,1,-2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_3) + b_{0,0,0,1,-2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_3) + \\
& b_{0,0,0,1,-2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_3) + b_{0,0,0,1,0,0,-2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_4) + \\
& b_{0,0,0,1,0,0,-2,1,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_4) + b_{0,0,0,1,0,0,0,0,-4,0}^r \rho_2^2 \rho_5^4 \cos(4\phi_5) + \\
& b_{0,0,0,1,0,0,0,0,2,1}^r \rho_2^2 \rho_5^4 \cos(2\phi_5) + b_{0,0,0,1,0,0,0,1,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,0,0,1,0,0,2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 - 2\phi_5) + b_{0,0,0,1,0,0,4,0,0,0}^r \rho_2^2 \rho_4^4 \cos(4\phi_4) + \\
& b_{0,0,0,1,0,1,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_4) + b_{0,0,0,1,0,1,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,0,0,1,2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 - 2\phi_5) + b_{0,0,0,1,2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 +
\end{aligned}$$

$$\begin{aligned}
& 2\phi_4) + b_{0,0,0,1,4,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(4\phi_3) + b_{0,0,0,2,-2,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_3) + \\
& b_{0,0,0,2,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_4) + b_{0,0,0,2,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,0,1,0,-1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,0,-1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,0,-1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,0,-1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) + b_{0,0,1,0,-1,1,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(- \\
& \phi_2 + \phi_3 + \phi_4 + \phi_5) + b_{0,0,1,0,-1,1,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - 3\phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,1,0,1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,1,0,1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 - 3\phi_4 - \phi_5) + \\
& b_{0,0,1,0,1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 - 3\phi_5) + \\
& b_{0,0,1,0,1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + 3\phi_5) + \\
& b_{0,0,1,0,1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 + 3\phi_4 - \phi_5) + \\
& b_{0,0,1,0,1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,1,0,3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + 3\phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,1,1,-1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,1,-1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,1,1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) + b_{0,0,2,0,-2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(- \\
& 2\phi_2 + 2\phi_3 + 2\phi_5) + b_{0,0,2,0,-2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 - 2\phi_3 + 2\phi_4) + \\
& b_{0,0,2,0,0,0,-2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(-2\phi_2 + 2\phi_4 + 2\phi_5) + b_{0,0,2,0,0,0,0,0,2}^r \rho_2^2 \rho_5^4 \cos(2\phi_2) + \\
& b_{0,0,2,0,0,0,0,1,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2) + b_{0,0,2,0,0,0,0,2,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2) + \\
& b_{0,0,2,0,0,0,2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_4 + 2\phi_5) + \\
& b_{0,0,2,0,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2) + b_{0,0,2,0,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2) + \\
& b_{0,0,2,0,0,2,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2) + b_{0,0,2,0,0,2,0,-2,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + 2\phi_3 - 2\phi_4) + \\
& b_{0,0,2,0,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_3 + 2\phi_5) + b_{0,0,2,1,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \cos(2\phi_2) + \\
& b_{0,0,2,1,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_2) + b_{0,0,2,1,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_2) + \\
& b_{0,0,2,2,0,0,0,0,0,0}^r \rho_2^6 \cos(2\phi_2) + b_{0,0,3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{0,0,3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 + \phi_3 + \phi_4 + \phi_5) + b_{0,0,4,0,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \cos(4\phi_2 - \\
& 2\phi_5) + b_{0,0,4,0,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(4\phi_2 + 2\phi_4) + b_{0,0,4,0,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(4\phi_2 + 2\phi_3) + \\
& b_{0,1,-1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,1,-1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,1,-2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_2 + 2\phi_5) + b_{0,1,-2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_2 - \\
& 2\phi_4) + b_{0,1,-2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_2 - 2\phi_3) + b_{0,1,-4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(4\phi_2) + \\
& b_{0,1,0,0,-2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_3) + b_{0,1,0,0,-2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_3) + \\
& b_{0,1,0,0,-2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_3) + b_{0,1,0,0,0,0,-2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_4) + \\
& b_{0,1,0,0,0,0,-2,1,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_4) + b_{0,1,0,0,0,0,0,-4,0}^r \rho_1^2 \rho_5^4 \cos(4\phi_5) + \\
& b_{0,1,0,0,0,0,0,2,1}^r \rho_1^2 \rho_5^4 \cos(2\phi_5) + b_{0,1,0,0,0,0,1,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,1,0,0,0,0,2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 - 2\phi_5) + b_{0,1,0,0,0,0,4,0,0}^r \rho_1^2 \rho_4^4 \cos(4\phi_4) + \\
& b_{0,1,0,0,0,1,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_4) + b_{0,1,0,0,0,1,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,1,0,0,2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 - 2\phi_5) + b_{0,1,0,0,2,0,2,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 +
\end{aligned}$$

$$\begin{aligned}
& 2\phi_4) + b_{0,1,0,0,4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(4\phi_3) + b_{0,1,0,1,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_3) + \\
& b_{0,1,0,1,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_4) + b_{0,1,0,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_5) + \\
& b_{0,1,1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,1,1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,1,1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,1,2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_2) + b_{0,1,2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_2) + \\
& b_{0,1,2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_2) + b_{0,1,2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_2) + \\
& b_{0,2,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_3) + b_{0,2,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_4) + \\
& b_{0,2,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \cos(2\phi_5) + b_{0,2,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{1,0,-1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(-\phi_1 + \phi_2 + 2\phi_3) + b_{1,0,-1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(-\phi_1 + \\
& \phi_2 + 2\phi_3) + b_{1,0,-1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_4) + \\
& b_{1,0,-1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(-\phi_1 + \phi_2 + 2\phi_4) + b_{1,0,-1,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(-\phi_1 + \phi_2 + \\
& 4\phi_5) + b_{1,0,-1,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 - \phi_2 + 2\phi_5) + \\
& b_{1,0,-1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_5) + \\
& b_{1,0,-1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_4 - 2\phi_5) + \\
& b_{1,0,-1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 - \phi_2 + 4\phi_4) + b_{1,0,-1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(-\phi_1 + \\
& \phi_2 + 2\phi_4) + b_{1,0,-1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_5) + \\
& b_{1,0,-1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_5) + \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_4) + \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 - \phi_2 + 4\phi_3) + b_{1,0,-1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(-\phi_1 + \phi_2 + \\
& 2\phi_3) + b_{1,0,-1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(-\phi_1 + \phi_2 + 2\phi_4) + \\
& b_{1,0,-1,1,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_5) + b_{1,0,-2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(- \\
& \phi_1 + 2\phi_2 + \phi_3 + \phi_4 - \phi_5) + b_{1,0,-2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 - \\
& \phi_5) + b_{1,0,-3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(-\phi_1 + 3\phi_2 + 2\phi_5) + \\
& b_{1,0,-3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - 3\phi_2 + 2\phi_4) + b_{1,0,-3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - \\
& 3\phi_2 + 2\phi_3) + b_{1,0,-5,0,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 - 5\phi_2) + b_{1,0,0,0,-1,0,-1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_1 + \\
& \phi_3 + \phi_4 + \phi_5) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(-\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,0,0,-1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,0,0,-1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) + b_{1,0,0,0,-1,1,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(- \\
& \phi_1 + \phi_3 + \phi_4 + \phi_5) + b_{1,0,0,0,-1,1,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,0,0,-3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - 3\phi_3 + \phi_4 - \phi_5) + \\
& b_{1,0,0,0,1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{1,0,0,0,1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{1,0,0,0,1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - 3\phi_4 - \phi_5) + \\
& b_{1,0,0,0,1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 - 3\phi_5) + \\
& b_{1,0,0,0,1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 + 3\phi_5) + \\
& b_{1,0,0,0,1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + 3\phi_4 - \phi_5) + \\
& b_{1,0,0,0,1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{1,0,0,0,3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + 3\phi_3 + \phi_4 - \phi_5) + \\
& b_{1,0,0,1,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,0,1,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,0,1,1,0,-1,0,1,0}^T \rho_1^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{1,0,1,0,-2,0,0,0,-2,0}^T \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_5) + \\
& b_{1,0,1,0,-2,0,2,0,0}^T \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_4) + \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^T \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_4 - 2\phi_5) + \\
& b_{1,0,1,0,0,0,0,0,2}^T \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2) + b_{1,0,1,0,0,0,0,1,0}^T \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2) + \\
& b_{1,0,1,0,0,0,0,2,0}^T \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \phi_2) + b_{1,0,1,0,0,0,2,0}^T \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_4 + 2\phi_5) + b_{1,0,1,0,0,1,0,0,0}^T \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2) + \\
& b_{1,0,1,0,0,1,0,1,0}^T \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2) + b_{1,0,1,0,0,2,0,0,0}^T \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \phi_2) + \\
& b_{1,0,1,0,2,0,-2,0,0,0}^T \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_4) + \\
& b_{1,0,1,0,2,0,0,0,2,0}^T \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5) + \\
& b_{1,0,1,1,0,0,0,0,0}^T \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + \phi_2) + b_{1,0,1,1,0,0,0,1,0}^T \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \phi_2) + \\
& b_{1,0,1,1,0,1,0,0,0,0}^T \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + \phi_2) + b_{1,0,1,2,0,0,0,0,0}^T \rho_1 \rho_2^5 \cos(\phi_1 + \phi_2) + \\
& b_{1,0,2,0,-1,0,1,0,-1,0}^T \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{1,0,2,0,1,0,-1,0,-1,0}^T \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{1,0,2,0,1,0,1,0,1,0}^T \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,3,0,0,0,0,0,-2,0}^T \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + 3\phi_2 - 2\phi_5) + b_{1,0,3,0,0,0,2,0,0}^T \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \\
& 3\phi_2 + 2\phi_4) + b_{1,0,3,0,2,0,0,0,0}^T \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + 3\phi_2 + 2\phi_3) + \\
& b_{1,1,-1,0,-2,0,0,0,0}^T \rho_1^3 \rho_2 \rho_3^2 \cos(-\phi_1 + \phi_2 + 2\phi_3) + b_{1,1,-1,0,0,0,-2,0,0}^T \rho_1^3 \rho_2 \rho_4^2 \cos(-\phi_1 + \\
& \phi_2 + 2\phi_4) + b_{1,1,-1,0,0,0,0,2,0}^T \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_5) + \\
& b_{1,1,0,0,-1,0,-1,0,-1,0}^T \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,1,0,0,-1,0,1,0,1,0}^T \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,1,0,0,1,0,-1,0,1,0}^T \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{1,1,1,0,0,0,0,0,1}^T \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2) + b_{1,1,1,0,0,0,0,1,0}^T \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2) + \\
& b_{1,1,1,0,0,1,0,0,0,0}^T \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2) + b_{1,1,1,1,0,0,0,0,0}^T \rho_1^3 \rho_2^3 \cos(\phi_1 + \phi_2) + \\
& b_{1,2,1,0,0,0,0,0,0}^T \rho_1^5 \rho_2 \cos(\phi_1 + \phi_2) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^T \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 + \\
& \phi_3 + \phi_4 + \phi_5) + b_{2,0,-1,0,-1,0,1,0,1,0}^T \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{2,0,-1,0,1,0,-1,0,1,0}^T \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{2,0,-2,0,-2,0,0,0,0}^T \rho_1^2 \rho_2^2 \rho_3^2 \cos(-2\phi_1 + 2\phi_2 + 2\phi_3) + b_{2,0,-2,0,0,0,-2,0,0}^T \rho_1^2 \rho_2^2 \rho_4^2 \cos(- \\
& 2\phi_1 + 2\phi_2 + 2\phi_4) + b_{2,0,-2,0,0,0,0,2,0}^T \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 - 2\phi_2 + 2\phi_5) + \\
& b_{2,0,0,0,-2,0,0,0,-2,0}^T \rho_1^2 \rho_3^2 \rho_5^2 \cos(-2\phi_1 + 2\phi_3 + 2\phi_5) + \\
& b_{2,0,0,0,-2,0,2,0,0}^T \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 - 2\phi_3 + 2\phi_4) + b_{2,0,0,0,0,0,-2,0}^T \rho_1^2 \rho_4^2 \rho_5^2 \cos(- \\
& 2\phi_1 + 2\phi_4 + 2\phi_5) + b_{2,0,0,0,0,0,0,0,2}^T \rho_1^2 \rho_5^4 \cos(2\phi_1) + \\
& b_{2,0,0,0,0,0,0,1,0}^T \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1) + b_{2,0,0,0,0,0,2,0,0}^T \rho_1^2 \rho_4^4 \cos(2\phi_1) + \\
& b_{2,0,0,0,0,0,2,0,2,0}^T \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_4 + 2\phi_5) + \\
& b_{2,0,0,0,0,1,0,0,0}^T \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1) + b_{2,0,0,0,0,1,0,1,0}^T \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1) + \\
& b_{2,0,0,0,0,2,0,0,0}^T \rho_1^2 \rho_3^4 \cos(2\phi_1) + b_{2,0,0,0,2,0,-2,0,0}^T \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + 2\phi_3 - 2\phi_4) + \\
& b_{2,0,0,0,2,0,0,0,2,0}^T \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_3 + 2\phi_5) + \\
& b_{2,0,0,1,0,0,0,0,0}^T \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1) + b_{2,0,0,1,0,0,0,1,0}^T \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1) + \\
& b_{2,0,0,1,0,1,0,0,0,0}^T \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1) + b_{2,0,0,2,0,0,0,0,0}^T \rho_1^2 \rho_2^4 \cos(2\phi_1) + \\
& b_{2,0,1,0,-1,0,1,0,-1,0}^T \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& b_{2,0,1,0,1,0,-1,0,-1,0}^T \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{2,0,1,0,1,0,1,0,1,0}^T \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{2,0,2,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_5) + \\
& b_{2,0,2,0,0,0,2,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + 2\phi_2 + 2\phi_4) + b_{2,0,2,0,2,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + \\
& 2\phi_2 + 2\phi_3) + b_{2,1,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \cos(2\phi_1) + b_{2,1,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_1) + \\
& b_{2,1,0,0,0,1,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_1) + b_{2,1,0,1,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_1) + \\
& b_{2,2,0,0,0,0,0,0,0}^r \rho_1^6 \cos(2\phi_1) + b_{3,0,-1,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 - \phi_2) + \\
& b_{3,0,-1,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 - \phi_2) + b_{3,0,-1,0,0,1,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 - \phi_2) + \\
& b_{3,0,-1,1,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 - \phi_2) + b_{3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 - \phi_3 + \phi_4 - \\
& \phi_5) + b_{3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& b_{3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 + \phi_2 - 2\phi_5) + b_{3,0,1,0,0,0,2,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 + \\
& \phi_2 + 2\phi_4) + b_{3,0,1,0,2,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{3,1,-1,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(3\phi_1 - \phi_2) + b_{4,0,-2,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(4\phi_1 - 2\phi_2) + \\
& b_{4,0,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \cos(4\phi_1 - 2\phi_5) + b_{4,0,0,0,0,0,2,0,0}^r \rho_1^4 \rho_4^2 \cos(4\phi_1 + 2\phi_4) + \\
& b_{4,0,0,0,2,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(4\phi_1 + 2\phi_3)
\end{aligned}$$

$$\begin{aligned}
H_{XY}^{(6)} = & b_{-1,0,-1,0,-2,0,-2,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4) + \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_5) + \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 + \phi_2 + 4\phi_3) + b_{-1,0,-1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \\
& \phi_2 + 2\phi_4 - 2\phi_5) + b_{-1,0,-1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 + \phi_2 + 4\phi_4) + \\
& b_{-1,0,-1,0,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,-1,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 + \phi_2 - \\
& 4\phi_5) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2 - 2\phi_4) + b_{-1,0,-1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 + \\
& \phi_2 - 2\phi_4) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 - 2\phi_4) + \\
& b_{-1,0,-1,0,2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 - 2\phi_3) + \\
& b_{-1,0,-1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 - 2\phi_3) + b_{-1,0,-1,0,2,1,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 + \\
& \phi_2 - 2\phi_3) + b_{-1,0,-1,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 + \phi_2 - 2\phi_4) + b_{-1,0,-1,1,2,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 + \\
& \phi_2 - 2\phi_3) + b_{-1,0,-2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,-2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,-2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,-3,0,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 + 3\phi_2) + b_{-1,0,-3,0,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 + 3\phi_2) + \\
& b_{-1,0,-3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 + 3\phi_2) + b_{-1,0,-3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \sin(\phi_1 + 3\phi_2) + \\
& b_{-1,0,0,0,-1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,-1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,-1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 - \phi_4 + 3\phi_5) + \\
& b_{-1,0,0,0,-1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 - \phi_4 - 3\phi_5) + \\
& b_{-1,0,0,0,-1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 - 3\phi_4 + \phi_5) + \\
& b_{-1,0,0,0,-1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,-3,0,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,-3,0,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + 3\phi_3 - \phi_4 - \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 - \phi_3 + \phi_4 + 3\phi_5) + \\
& b_{-1,0,0,0,1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 - \phi_3 + \phi_4 - 3\phi_5) + \\
& b_{-1,0,0,0,1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 - \phi_3 + 3\phi_4 - \phi_5) + \\
& b_{-1,0,0,0,1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{-1,0,0,0,1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(-\phi_1 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{-1,0,0,0,1,1,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,3,0,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 - 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,0,0,3,0,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(-\phi_1 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,0,1,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,1,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_3) + \\
& b_{-1,0,1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_3) + b_{-1,0,1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 - \\
& \phi_2 + 2\phi_3) + b_{-1,0,1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_4) + \\
& b_{-1,0,1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 - \phi_2 + 2\phi_4) + b_{-1,0,1,0,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 - \phi_2 + \\
& 4\phi_5) - b_{-1,0,1,0,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \sin(-\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{-1,0,1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 - \phi_2 - 2\phi_4 + 2\phi_5) - b_{-1,0,1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(- \\
& \phi_1 + \phi_2 + 4\phi_4) + b_{-1,0,1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_4) - \\
& b_{-1,0,1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 - \phi_2 - 2\phi_3 + 2\phi_5) - \\
& b_{-1,0,1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{-1,0,1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(-\phi_1 + \phi_2 + 4\phi_3) + b_{-1,0,1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 - \phi_2 + \\
& 2\phi_3) + b_{-1,0,1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_4) - b_{-1,0,1,1,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(- \\
& \phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,3,0,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 - 3\phi_2) + b_{-1,0,3,0,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 - 3\phi_2) + \\
& b_{-1,0,3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 - 3\phi_2) + b_{-1,0,3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \sin(\phi_1 - 3\phi_2) + \\
& b_{-1,1,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + b_{-1,1,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(\phi_1 + \\
& \phi_2 - 2\phi_4) + b_{-1,1,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(\phi_1 + \phi_2 - 2\phi_3) + \\
& b_{-1,1,-3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \sin(\phi_1 + 3\phi_2) + b_{-1,1,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \\
& \phi_5) + b_{-1,1,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,1,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(\phi_1 - \phi_2 + 2\phi_3) + b_{-1,1,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(\phi_1 - \\
& \phi_2 + 2\phi_4) - b_{-1,1,1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,1,3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \sin(\phi_1 - 3\phi_2) + b_{-2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 + \\
& \phi_3 - \phi_4 + \phi_5) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-2,0,-2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1 + 2\phi_2) + b_{-2,0,-2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1 + \\
& 2\phi_2) + b_{-2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 + 2\phi_2) + b_{-2,0,-2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \sin(2\phi_1 + \\
& 2\phi_2) + b_{-2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 + 2\phi_3 + 2\phi_4) + \\
& b_{-2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1 + 2\phi_3 - 2\phi_5) + b_{-2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(2\phi_1 +
\end{aligned}$$

$$\begin{aligned}
& 4\phi_3) + b_{-2,0,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1 + 2\phi_4 - 2\phi_5) + \\
& b_{-2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_1 + 4\phi_4) + b_{-2,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \sin(2\phi_1 + 2\phi_5) + \\
& b_{-2,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_1 - 4\phi_5) + b_{-2,0,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + \\
& b_{-2,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1 - 2\phi_4) + b_{-2,0,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_1 - 2\phi_4) + \\
& b_{-2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + b_{-2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 - \\
& 2\phi_4) + b_{-2,0,0,0,2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1 - 2\phi_3) + \\
& b_{-2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 - 2\phi_3) + b_{-2,0,0,0,2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(2\phi_1 - 2\phi_3) + \\
& b_{-2,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + b_{-2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1 - \\
& 2\phi_4) + b_{-2,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 - 2\phi_3) + \\
& b_{-2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{-2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 - 2\phi_2 + 2\phi_3) + \\
& b_{-2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1 - 2\phi_2 + 2\phi_4) - b_{-2,0,2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(- \\
& 2\phi_1 + 2\phi_2 + 2\phi_5) + b_{-2,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \sin(2\phi_1 - 4\phi_2) + \\
& b_{-2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^4 \sin(2\phi_1 + 2\phi_2) + b_{-2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + \\
& b_{-2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \sin(2\phi_1 - 2\phi_4) + b_{-2,1,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(2\phi_1 - 2\phi_3) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \sin(3\phi_1 + \phi_2) + b_{-3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(3\phi_1 + \phi_2) + \\
& b_{-3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(3\phi_1 + \phi_2) + b_{-3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \sin(3\phi_1 + \phi_2) + \\
& b_{-3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{-3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(-3\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(3\phi_1 - \phi_2 + 2\phi_5) - b_{-3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(-3\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{-3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(-3\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{-3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \sin(3\phi_1 + \phi_2) + b_{-4,0,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \sin(4\phi_1) + \\
& b_{-4,0,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \sin(4\phi_1) + b_{-4,0,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(4\phi_1) + \\
& b_{-4,0,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \sin(4\phi_1) + b_{-4,1,0,0,0,0,0,0,0,0}^r \rho_1^6 \sin(4\phi_1) + \\
& b_{-5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \sin(5\phi_1 - \phi_2) + b_{0,0,-1,0,-1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 + \phi_4 - \\
& \phi_5) + b_{0,0,-1,0,-1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{0,0,-1,0,-1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 - \phi_4 + 3\phi_5) + \\
& b_{0,0,-1,0,-1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 - \phi_4 - 3\phi_5) + \\
& b_{0,0,-1,0,-1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 - 3\phi_4 + \phi_5) + \\
& b_{0,0,-1,0,-1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-1,0,-3,0,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + 3\phi_3 - \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 - \phi_3 + \phi_4 + 3\phi_5) + \\
& b_{0,0,-1,0,1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 - \phi_3 + \phi_4 - 3\phi_5) + \\
& b_{0,0,-1,0,1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 - \phi_3 + 3\phi_4 - \phi_5) + \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,-1,0,1,0,1,1,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(-\phi_2 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{0,0,-1,0,1,1,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,-1,0,3,0,-1,0,-1,0}^r \rho_2^3 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 - 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-1,0,3,0,1,0,1,0}^r \rho_2^3 \rho_3^3 \rho_4 \rho_5 \sin(-\phi_2 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-1,1,-1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,1,1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,-2,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 + 2\phi_3 + 2\phi_4) + \\
& b_{0,0,-2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2 + 2\phi_3 - 2\phi_5) + b_{0,0,-2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(2\phi_2 + \\
& 4\phi_3) + b_{0,0,-2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2 + 2\phi_4 - 2\phi_5) + \\
& b_{0,0,-2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \sin(2\phi_2 + 4\phi_4) + b_{0,0,-2,0,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \sin(2\phi_2 + 2\phi_5) + \\
& b_{0,0,-2,0,0,0,0,0,4,0}^r \rho_2^2 \rho_5^4 \sin(2\phi_2 - 4\phi_5) + b_{0,0,-2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2 + 2\phi_5) + \\
& b_{0,0,-2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2 - 2\phi_4) + b_{0,0,-2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \sin(2\phi_2 - 2\phi_4) + \\
& b_{0,0,-2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2 + 2\phi_5) + b_{0,0,-2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 - \\
& 2\phi_4) + b_{0,0,-2,0,2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2 - 2\phi_3) + \\
& b_{0,0,-2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 - 2\phi_3) + b_{0,0,-2,0,2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(2\phi_2 - 2\phi_3) + \\
& b_{0,0,-2,1,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \sin(2\phi_2 + 2\phi_5) + b_{0,0,-2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \sin(2\phi_2 - 2\phi_4) + \\
& b_{0,0,-2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(2\phi_2 - 2\phi_3) + b_{0,0,-3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 + \phi_3 - \\
& \phi_4 + \phi_5) + b_{0,0,-3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(-3\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-4,0,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \sin(4\phi_2) + b_{0,0,-4,0,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \sin(4\phi_2) + \\
& b_{0,0,-4,0,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(4\phi_2) + b_{0,0,-4,1,0,0,0,0,0,0}^r \rho_2^6 \sin(4\phi_2) + \\
& b_{0,0,0,0,-2,0,-2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3 + 2\phi_4 + 2\phi_5) + b_{0,0,0,0,-2,0,0,0,0,2}^r \rho_3^2 \rho_5^4 \sin(2\phi_3) + \\
& b_{0,0,0,0,-2,0,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3) + b_{0,0,0,0,-2,0,0,2,0,0}^r \rho_3^2 \rho_4^4 \sin(2\phi_3) - \\
& b_{0,0,0,0,-2,0,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(-2\phi_3 + 2\phi_4 + 2\phi_5) + b_{0,0,0,0,-2,1,0,0,0,1}^r \rho_3^4 \rho_5^2 \sin(2\phi_3) + \\
& b_{0,0,0,0,-2,1,0,1,0,0}^r \rho_3^4 \rho_4^2 \sin(2\phi_3) + b_{0,0,0,0,-2,2,0,0,0,0}^r \rho_3^6 \sin(2\phi_3) + \\
& b_{0,0,0,0,-4,0,0,0,-2,0}^r \rho_3^4 \rho_5^2 \sin(4\phi_3 + 2\phi_5) + b_{0,0,0,0,-4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \sin(4\phi_3 - 2\phi_4) + \\
& b_{0,0,0,0,0,0,-2,0,0,2}^r \rho_4^2 \rho_5^4 \sin(2\phi_4) + b_{0,0,0,0,0,0,-2,1,0,1}^r \rho_4^4 \rho_5^2 \sin(2\phi_4) + \\
& b_{0,0,0,0,0,0,-2,2,0,0}^r \rho_4^6 \sin(2\phi_4) + b_{0,0,0,0,0,0,-4,0,-2,0}^r \rho_4^4 \rho_5^2 \sin(4\phi_4 + 2\phi_5) + \\
& b_{0,0,0,0,0,0,0,0,-4,1}^r \rho_5^6 \sin(4\phi_5) - b_{0,0,0,0,0,0,0,0,2,2}^r \rho_5^6 \sin(2\phi_5) + \\
& b_{0,0,0,0,0,0,0,0,1,-4,0}^r \rho_4^2 \rho_5^4 \sin(4\phi_5) - b_{0,0,0,0,0,0,0,0,1,2,1}^r \rho_4^2 \rho_5^4 \sin(2\phi_5) - \\
& b_{0,0,0,0,0,0,0,2,2,0}^r \rho_4^4 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,0,0,2,0,-2,1}^r \rho_4^2 \rho_5^4 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,0,0,2,0,4,0}^r \rho_4^2 \rho_5^4 \sin(2\phi_4 + 4\phi_5) - b_{0,0,0,0,0,0,2,1,-2,0}^r \rho_4^4 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,0,0,4,0,0,1}^r \rho_4^4 \rho_5^2 \sin(4\phi_4) - b_{0,0,0,0,0,0,4,1,0,0}^r \rho_4^6 \sin(4\phi_4) + \\
& b_{0,0,0,0,0,0,1,-2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_4) + b_{0,0,0,0,0,0,1,-2,1,0,0}^r \rho_3^2 \rho_4^4 \sin(2\phi_4) + \\
& b_{0,0,0,0,0,0,1,0,0,-4,0}^r \rho_3^2 \rho_5^4 \sin(4\phi_5) - b_{0,0,0,0,0,0,1,0,0,2,1}^r \rho_3^2 \rho_5^4 \sin(2\phi_5) - \\
& b_{0,0,0,0,0,0,1,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,0,0,1,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,0,1,4,0,0,0}^r \rho_3^2 \rho_4^4 \sin(4\phi_4) + b_{0,0,0,0,0,0,2,-2,0,0,0}^r \rho_3^4 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,0,0,0,2,0,0,2,0}^r \rho_3^4 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,0,0,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3 - 2\phi_4 + 2\phi_5) - \\
& b_{0,0,0,0,0,2,0,-4,0,0,0}^r \rho_3^2 \rho_4^4 \sin(2\phi_3 - 4\phi_4) - b_{0,0,0,0,0,2,0,0,0,-2,1}^r \rho_3^2 \rho_5^4 \sin(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,0,0,2,0,0,0,4,0}^r \rho_3^2 \rho_5^4 \sin(2\phi_3 + 4\phi_5) - b_{0,0,0,0,0,2,0,0,1,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,0,0,2,0,2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3 + 2\phi_4) - b_{0,0,0,0,0,2,0,2,1,0,0}^r \rho_3^2 \rho_4^4 \sin(2\phi_3 + 2\phi_4) - \\
& b_{0,0,0,0,0,2,1,0,0,-2,0}^r \rho_3^4 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - b_{0,0,0,0,0,2,1,2,0,0,0}^r \rho_3^4 \rho_4^2 \sin(2\phi_3 + 2\phi_4) - \\
& b_{0,0,0,0,0,4,0,0,0,0,1}^r \rho_3^4 \rho_5^2 \sin(4\phi_3) - b_{0,0,0,0,0,4,0,0,1,0,0}^r \rho_3^4 \rho_4^2 \sin(4\phi_3) - \\
& b_{0,0,0,0,0,4,1,0,0,0,0}^r \rho_3^6 \sin(4\phi_3) + b_{0,0,0,0,1,-2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_3) +
\end{aligned}$$



$$\begin{aligned}
& b_{0,0,0,1,-2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_3) + b_{0,0,0,1,-2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(2\phi_3) + \\
& b_{0,0,0,1,0,0,-2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_4) + b_{0,0,0,1,0,0,-2,1,0,0}^r \rho_2^2 \rho_4^4 \sin(2\phi_4) + \\
& b_{0,0,0,1,0,0,0,0,-4,0}^r \rho_2^2 \rho_5^4 \sin(4\phi_5) - b_{0,0,0,1,0,0,0,0,2,1}^r \rho_2^2 \rho_5^4 \sin(2\phi_5) - \\
& b_{0,0,0,1,0,0,0,1,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,1,0,0,2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,1,0,0,4,0,0,0}^r \rho_2^2 \rho_4^4 \sin(4\phi_4) + b_{0,0,0,1,0,1,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,1,0,1,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,1,2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,1,2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_3 + 2\phi_4) - b_{0,0,0,1,4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(4\phi_3) + \\
& b_{0,0,0,2,-2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(2\phi_3) + b_{0,0,0,2,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,2,0,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \sin(2\phi_5) + b_{0,0,1,0,-1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,0,-1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,0,-1,1,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,1,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 - 3\phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,1,0,1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,1,0,1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 + \phi_3 - 3\phi_4 - \phi_5) - \\
& b_{0,0,1,0,1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 + \phi_4 - 3\phi_5) - \\
& b_{0,0,1,0,1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 + \phi_4 + 3\phi_5) - \\
& b_{0,0,1,0,1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 + \phi_3 + 3\phi_4 - \phi_5) - \\
& b_{0,0,1,0,1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,1,0,3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + 3\phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,1,1,-1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,1,-1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,1,1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) + b_{0,0,2,0,-2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(- \\
& 2\phi_2 + 2\phi_3 + 2\phi_5) - b_{0,0,2,0,-2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 - 2\phi_3 + 2\phi_4) + \\
& b_{0,0,2,0,0,0,-2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(-2\phi_2 + 2\phi_4 + 2\phi_5) - b_{0,0,2,0,0,0,0,0,2}^r \rho_2^2 \rho_5^4 \sin(2\phi_2) - \\
& b_{0,0,2,0,0,0,0,1,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2) - b_{0,0,2,0,0,0,0,2,0,0}^r \rho_2^2 \rho_4^4 \sin(2\phi_2) - \\
& b_{0,0,2,0,0,0,2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2 + 2\phi_4 + 2\phi_5) - \\
& b_{0,0,2,0,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2) - b_{0,0,2,0,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2) - \\
& b_{0,0,2,0,0,2,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(2\phi_2) - b_{0,0,2,0,2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 + 2\phi_3 - 2\phi_4) - \\
& b_{0,0,2,0,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2 + 2\phi_3 + 2\phi_5) - b_{0,0,2,1,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \sin(2\phi_2) - \\
& b_{0,0,2,1,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \sin(2\phi_2) - b_{0,0,2,1,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(2\phi_2) - \\
& b_{0,0,2,2,0,0,0,0,0,0}^r \rho_2^6 \sin(2\phi_2) - b_{0,0,3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{0,0,3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 + \phi_3 + \phi_4 + \phi_5) - b_{0,0,4,0,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \sin(4\phi_2 - \\
& 2\phi_5) - b_{0,0,4,0,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \sin(4\phi_2 + 2\phi_4) - b_{0,0,4,0,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(4\phi_2 + 2\phi_3) + \\
& b_{0,1,-1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,1,-1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,1,-2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_2 + 2\phi_5) + b_{0,1,-2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_2 - \\
& 2\phi_4) + b_{0,1,-2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_2 - 2\phi_3) + b_{0,1,-4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \sin(4\phi_2) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,1,0,0,-2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_3) + b_{0,1,0,0,-2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_3) + \\
& b_{0,1,0,0,-2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(2\phi_3) + b_{0,1,0,0,0,0,-2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_4) + \\
& b_{0,1,0,0,0,0,-2,1,0,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_4) + b_{0,1,0,0,0,0,0,0,-4,0}^r \rho_1^2 \rho_5^4 \sin(4\phi_5) - \\
& b_{0,1,0,0,0,0,0,0,2,1}^r \rho_1^2 \rho_5^4 \sin(2\phi_5) - b_{0,1,0,0,0,0,1,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_5) - \\
& b_{0,1,0,0,0,0,2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - b_{0,1,0,0,0,0,4,0,0,0}^r \rho_1^2 \rho_4^4 \sin(4\phi_4) + \\
& b_{0,1,0,0,0,1,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_4) - b_{0,1,0,0,0,1,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_5) - \\
& b_{0,1,0,0,2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - b_{0,1,0,0,2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_3 + \\
& 2\phi_4) - b_{0,1,0,0,4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(4\phi_3) + b_{0,1,0,1,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_3) + \\
& b_{0,1,0,1,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_4) - b_{0,1,0,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_5) + \\
& b_{0,1,1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,1,1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,1,1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,1,2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_2) - b_{0,1,2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_2) - \\
& b_{0,1,2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_2) - b_{0,1,2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \sin(2\phi_2) + \\
& b_{0,2,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(2\phi_3) + b_{0,2,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,2,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \sin(2\phi_5) - b_{0,2,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \sin(2\phi_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{1,0,-1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(-\phi_1 + \phi_2 + 2\phi_3) + b_{1,0,-1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(- \\
& \phi_1 + \phi_2 + 2\phi_3) + b_{1,0,-1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_4) + \\
& b_{1,0,-1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(-\phi_1 + \phi_2 + 2\phi_4) + b_{1,0,-1,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \sin(-\phi_1 + \phi_2 + \\
& 4\phi_5) - b_{1,0,-1,0,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,0,-1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,0,-1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_4 - 2\phi_5) - \\
& b_{1,0,-1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 - \phi_2 + 4\phi_4) + b_{1,0,-1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(-\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{1,0,-1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,0,-1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_5) - \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 - \phi_2 + 4\phi_3) + b_{1,0,-1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(-\phi_1 + \phi_2 + \\
& 2\phi_3) + b_{1,0,-1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(-\phi_1 + \phi_2 + 2\phi_4) - \\
& b_{1,0,-1,1,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_5) + b_{1,0,-2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(- \\
& \phi_1 + 2\phi_2 + \phi_3 + \phi_4 - \phi_5) - b_{1,0,-2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 - \\
& \phi_5) + b_{1,0,-3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(-\phi_1 + 3\phi_2 + 2\phi_5) - \\
& b_{1,0,-3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 - 3\phi_2 + 2\phi_4) - b_{1,0,-3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 - \\
& 3\phi_2 + 2\phi_3) - b_{1,0,-5,0,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \sin(\phi_1 - 5\phi_2) + b_{1,0,0,0,-1,0,-1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(- \\
& \phi_1 + \phi_3 + \phi_4 + \phi_5) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,0,0,-1,1,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,1,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 - 3\phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,0,0,0,1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,0,0,1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,0,0,1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 - 3\phi_4 - \phi_5) - \\
& b_{1,0,0,0,1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 + \phi_4 - 3\phi_5) - \\
& b_{1,0,0,0,1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 + \phi_4 + 3\phi_5) - \\
& b_{1,0,0,0,1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 + 3\phi_4 - \phi_5) - \\
& b_{1,0,0,0,1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,0,0,3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + 3\phi_3 + \phi_4 - \phi_5) + \\
& b_{1,0,0,1,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,1,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,1,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,1,0,-2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_5) - \\
& b_{1,0,1,0,-2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_4) - \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2 - 2\phi_4 - 2\phi_5) - \\
& b_{1,0,1,0,0,0,0,0,2}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 + \phi_2) - b_{1,0,1,0,0,0,0,1,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,0,0,0,0,2,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 + \phi_2) - b_{1,0,1,0,0,0,2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2 + \\
& 2\phi_4 + 2\phi_5) - b_{1,0,1,0,0,1,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,0,0,1,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2) - b_{1,0,1,0,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,0,2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_4) - \\
& b_{1,0,1,0,2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5) - \\
& b_{1,0,1,1,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 + \phi_2) - b_{1,0,1,1,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,1,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 + \phi_2) - b_{1,0,1,2,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{1,0,2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 + 3\phi_2 - 2\phi_5) - b_{1,0,3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 + \\
& 3\phi_2 + 2\phi_4) - b_{1,0,3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 + 3\phi_2 + 2\phi_3) + \\
& b_{1,1,-1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(-\phi_1 + \phi_2 + 2\phi_3) + b_{1,1,-1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(-\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{1,1,-1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_5) + \\
& b_{1,1,0,0,-1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,1,0,0,-1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,1,0,0,1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,1,1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \sin(\phi_1 + \phi_2) - b_{1,1,1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,1,1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(\phi_1 + \phi_2) - b_{1,1,1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \sin(\phi_1 + \phi_2) - \\
& b_{1,2,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \sin(\phi_1 + \phi_2) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-2\phi_1 + \phi_2 + \\
& \phi_3 + \phi_4 + \phi_5) - b_{2,0,-1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{2,0,-1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{2,0,-2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(-2\phi_1 + 2\phi_2 + 2\phi_3) + b_{2,0,-2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(- \\
& 2\phi_1 + 2\phi_2 + 2\phi_4) - b_{2,0,-2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1 - 2\phi_2 + 2\phi_5) + \\
& b_{2,0,0,0,-2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(-2\phi_1 + 2\phi_3 + 2\phi_5) - \\
& b_{2,0,0,0,-2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 - 2\phi_3 + 2\phi_4) + b_{2,0,0,0,0,0,-2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(- \\
& 2\phi_1 + 2\phi_4 + 2\phi_5) - b_{2,0,0,0,0,0,0,0,2}^r \rho_1^5 \sin(2\phi_1) - \\
& b_{2,0,0,0,0,0,0,1,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1) - b_{2,0,0,0,0,0,0,2,0,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_1) - \\
& b_{2,0,0,0,0,0,2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1 + 2\phi_4 + 2\phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{2,0,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1) - b_{2,0,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1) - \\
& b_{2,0,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(2\phi_1) - b_{2,0,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 + 2\phi_3 - 2\phi_4) - \\
& b_{2,0,0,0,2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1 + 2\phi_3 + 2\phi_5) - \\
& b_{2,0,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1) - b_{2,0,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1) - \\
& b_{2,0,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1) - b_{2,0,0,2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \sin(2\phi_1) - \\
& b_{2,0,1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{2,0,1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{2,0,1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{2,0,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1 + 2\phi_2 - 2\phi_5) - \\
& b_{2,0,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1 + 2\phi_2 + 2\phi_4) - \\
& b_{2,0,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 + 2\phi_2 + 2\phi_3) - b_{2,1,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \sin(2\phi_1) - \\
& b_{2,1,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \sin(2\phi_1) - b_{2,1,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(2\phi_1) - \\
& b_{2,1,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \sin(2\phi_1) - b_{2,2,0,0,0,0,0,0,0,0}^r \rho_1^6 \sin(2\phi_1) - \\
& b_{3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \sin(3\phi_1 - \phi_2) - b_{3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(3\phi_1 - \phi_2) - \\
& b_{3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(3\phi_1 - \phi_2) - b_{3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \sin(3\phi_1 - \phi_2) - \\
& b_{3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(3\phi_1 + \phi_2 - 2\phi_5) - b_{3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(3\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(3\phi_1 + \phi_2 + 2\phi_3) - \\
& b_{3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \sin(3\phi_1 - \phi_2) - b_{4,0,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \sin(4\phi_1 - 2\phi_2) - \\
& b_{4,0,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \sin(4\phi_1 - 2\phi_5) - b_{4,0,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \sin(4\phi_1 + 2\phi_4) - \\
& b_{4,0,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(4\phi_1 + 2\phi_3)
\end{aligned}$$

$$\begin{aligned}
H_{YX}^{(6)} = & b_{-1,0,-1,0,-2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4) + \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_5) + \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 + \phi_2 + 4\phi_3) + b_{-1,0,-1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \\
& \phi_2 + 2\phi_4 - 2\phi_5) + b_{-1,0,-1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 + \phi_2 + 4\phi_4) + \\
& b_{-1,0,-1,0,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,-1,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 + \phi_2 - \\
& 4\phi_5) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2 - 2\phi_4) + b_{-1,0,-1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 + \\
& \phi_2 - 2\phi_4) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 - 2\phi_4) + \\
& b_{-1,0,-1,0,2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 - 2\phi_3) + \\
& b_{-1,0,-1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 - 2\phi_3) + b_{-1,0,-1,0,2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 + \\
& \phi_2 - 2\phi_3) + b_{-1,0,-1,1,0,0,0,0,-2,0}^r \rho_1 \rho_3^3 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,-1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 + \phi_2 - 2\phi_4) + b_{-1,0,-1,1,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 + \\
& \phi_2 - 2\phi_3) + b_{-1,0,-2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,-2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,-2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,-3,0,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 + 3\phi_2) + b_{-1,0,-3,0,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 + 3\phi_2) + \\
& b_{-1,0,-3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 + 3\phi_2) + b_{-1,0,-3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \sin(\phi_1 + 3\phi_2) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,-1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,-1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,-1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 - \phi_4 + 3\phi_5) + \\
& b_{-1,0,0,0,-1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 - \phi_4 - 3\phi_5) + \\
& b_{-1,0,0,0,-1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 - 3\phi_4 + \phi_5) + \\
& b_{-1,0,0,0,-1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,-3,0,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,-3,0,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + 3\phi_3 - \phi_4 - \phi_5) + \\
& b_{-1,0,0,0,1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 - \phi_3 + \phi_4 + 3\phi_5) + \\
& b_{-1,0,0,0,1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 - \phi_3 + \phi_4 - 3\phi_5) + \\
& b_{-1,0,0,0,1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 - \phi_3 + 3\phi_4 - \phi_5) + \\
& b_{-1,0,0,0,1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{-1,0,0,0,1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(-\phi_1 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{-1,0,0,0,1,1,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,0,0,3,0,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 - 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,0,0,3,0,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(-\phi_1 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{-1,0,0,1,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-1,0,0,1,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_3) + \\
& b_{-1,0,1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_3) + b_{-1,0,1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 - \\
& \phi_2 + 2\phi_3) + b_{-1,0,1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_4) + \\
& b_{-1,0,1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 - \phi_2 + 2\phi_4) + b_{-1,0,1,0,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 - \phi_2 + \\
& 4\phi_5) - b_{-1,0,1,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \sin(-\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{-1,0,1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 - \phi_2 - 2\phi_4 + 2\phi_5) - b_{-1,0,1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(- \\
& \phi_1 + \phi_2 + 4\phi_4) + b_{-1,0,1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_4) - \\
& b_{-1,0,1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,0,1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 - \phi_2 - 2\phi_3 + 2\phi_5) - \\
& b_{-1,0,1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{-1,0,1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(-\phi_1 + \phi_2 + 4\phi_3) + b_{-1,0,1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 - \phi_2 + \\
& 2\phi_3) + b_{-1,0,1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_4) - b_{-1,0,1,1,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(- \\
& \phi_1 + \phi_2 + 2\phi_5) + b_{-1,0,2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{-1,0,3,0,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 - 3\phi_2) + b_{-1,0,3,0,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 - 3\phi_2) + \\
& b_{-1,0,3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 - 3\phi_2) + b_{-1,0,3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \sin(\phi_1 - 3\phi_2) + \\
& b_{-1,1,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_5) + b_{-1,1,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(\phi_1 + \\
& \phi_2 - 2\phi_4) + b_{-1,1,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(\phi_1 + \phi_2 - 2\phi_3) + \\
& b_{-1,1,-3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(\phi_1 + 3\phi_2) + b_{-1,1,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 + \phi_4 - \\
& \phi_5) + b_{-1,1,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 - \phi_4 + \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,1,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(\phi_1 - \phi_2 + 2\phi_3) + b_{-1,1,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(\phi_1 - \\
& \phi_2 + 2\phi_4) - b_{-1,1,1,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_5) + \\
& b_{-1,1,3,0,0,0,0,0,0}^r \rho_1^3 \rho_2^2 \sin(\phi_1 - 3\phi_2) + b_{-2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 + \\
& \phi_3 - \phi_4 + \phi_5) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-2,0,-2,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1 + 2\phi_2) + b_{-2,0,-2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1 + \\
& 2\phi_2) + b_{-2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 + 2\phi_2) + b_{-2,0,-2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \sin(2\phi_1 + \\
& 2\phi_2) + b_{-2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 + 2\phi_3 + 2\phi_4) + \\
& b_{-2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1 + 2\phi_3 - 2\phi_5) + b_{-2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(2\phi_1 + \\
& 4\phi_3) + b_{-2,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1 + 2\phi_4 - 2\phi_5) + \\
& b_{-2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_1 + 4\phi_4) + b_{-2,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \sin(2\phi_1 + 2\phi_5) + \\
& b_{-2,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_5^4 \sin(2\phi_1 - 4\phi_5) + b_{-2,0,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + \\
& b_{-2,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1 - 2\phi_4) + b_{-2,0,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_1 - 2\phi_4) + \\
& b_{-2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + b_{-2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 - \\
& 2\phi_4) + b_{-2,0,0,0,2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1 - 2\phi_3) + \\
& b_{-2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 - 2\phi_3) + b_{-2,0,0,0,2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(2\phi_1 - 2\phi_3) + \\
& b_{-2,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + b_{-2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1 - \\
& 2\phi_4) + b_{-2,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 - 2\phi_3) + \\
& b_{-2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{-2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{-2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 - 2\phi_2 + 2\phi_3) + \\
& b_{-2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1 - 2\phi_2 + 2\phi_4) - b_{-2,0,2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(- \\
& 2\phi_1 + 2\phi_2 + 2\phi_5) + b_{-2,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \sin(2\phi_1 - 4\phi_2) + \\
& b_{-2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \sin(2\phi_1 + 2\phi_2) + b_{-2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \sin(2\phi_1 + 2\phi_5) + \\
& b_{-2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \sin(2\phi_1 - 2\phi_4) + b_{-2,1,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(2\phi_1 - 2\phi_3) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \sin(3\phi_1 + \phi_2) + b_{-3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(3\phi_1 + \phi_2) + \\
& b_{-3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(3\phi_1 + \phi_2) + b_{-3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \sin(3\phi_1 + \phi_2) + \\
& b_{-3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{-3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(-3\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{-3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(3\phi_1 - \phi_2 + 2\phi_5) - b_{-3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(-3\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{-3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(-3\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{-3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \sin(3\phi_1 + \phi_2) + b_{-4,0,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \sin(4\phi_1) + \\
& b_{-4,0,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \sin(4\phi_1) + b_{-4,0,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(4\phi_1) + \\
& b_{-4,0,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \sin(4\phi_1) + b_{-4,1,0,0,0,0,0,0,0,0}^r \rho_1^6 \sin(4\phi_1) + \\
& b_{-5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \sin(5\phi_1 - \phi_2) + b_{0,0,-1,0,-1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 + \phi_4 - \\
& \phi_5) + b_{0,0,-1,0,-1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{0,0,-1,0,-1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 - \phi_4 + 3\phi_5) + \\
& b_{0,0,-1,0,-1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 - \phi_4 - 3\phi_5) + \\
& b_{0,0,-1,0,-1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 + \phi_3 - 3\phi_4 + \phi_5) + \\
& b_{0,0,-1,0,-1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r \rho_2^3 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-1,0,-3,0,1,0,1,0}^r \rho_2^3 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + 3\phi_3 - \phi_4 - \phi_5) + \\
& b_{0,0,-1,0,1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 - \phi_3 + \phi_4 + 3\phi_5) + \\
& b_{0,0,-1,0,1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 - \phi_3 + \phi_4 - 3\phi_5) + \\
& b_{0,0,-1,0,1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 - \phi_3 + 3\phi_4 - \phi_5) + \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,-1,0,1,0,1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(-\phi_2 + \phi_3 + 3\phi_4 + \phi_5) + \\
& b_{0,0,-1,0,1,1,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,-1,0,3,0,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 - 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-1,0,3,0,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(-\phi_2 + 3\phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-1,1,-1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,-1,1,1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,0,-2,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 + 2\phi_3 + 2\phi_4) + \\
& b_{0,0,-2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2 + 2\phi_3 - 2\phi_5) + b_{0,0,-2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(2\phi_2 + \\
& 4\phi_3) + b_{0,0,-2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2 + 2\phi_4 - 2\phi_5) + \\
& b_{0,0,-2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \sin(2\phi_2 + 4\phi_4) + b_{0,0,-2,0,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \sin(2\phi_2 + 2\phi_5) + \\
& b_{0,0,-2,0,0,0,0,4,0}^r \rho_2^2 \rho_5^4 \sin(2\phi_2 - 4\phi_5) + b_{0,0,-2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2 + 2\phi_5) + \\
& b_{0,0,-2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2 - 2\phi_4) + b_{0,0,-2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \sin(2\phi_2 - 2\phi_4) + \\
& b_{0,0,-2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2 + 2\phi_5) + b_{0,0,-2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 - \\
& 2\phi_4) + b_{0,0,-2,0,2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2 - 2\phi_3) + \\
& b_{0,0,-2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 - 2\phi_3) + b_{0,0,-2,0,2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(2\phi_2 - 2\phi_3) + \\
& b_{0,0,-2,1,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \sin(2\phi_2 + 2\phi_5) + b_{0,0,-2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \sin(2\phi_2 - 2\phi_4) + \\
& b_{0,0,-2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(2\phi_2 - 2\phi_3) + b_{0,0,-3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 + \phi_3 - \\
& \phi_4 + \phi_5) + b_{0,0,-3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(-3\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,-4,0,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \sin(4\phi_2) + b_{0,0,-4,0,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \sin(4\phi_2) + \\
& b_{0,0,-4,0,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(4\phi_2) + b_{0,0,-4,1,0,0,0,0,0,0}^r \rho_2^6 \sin(4\phi_2) + \\
& b_{0,0,0,0,-2,0,-2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3 + 2\phi_4 + 2\phi_5) + b_{0,0,0,0,-2,0,0,0,0,2}^r \rho_3^2 \rho_5^4 \sin(2\phi_3) + \\
& b_{0,0,0,0,-2,0,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3) + b_{0,0,0,0,-2,0,0,2,0,0}^r \rho_3^2 \rho_4^4 \sin(2\phi_3) - \\
& b_{0,0,0,0,-2,0,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(-2\phi_3 + 2\phi_4 + 2\phi_5) + b_{0,0,0,0,-2,1,0,0,0,1}^r \rho_3^4 \rho_5^2 \sin(2\phi_3) + \\
& b_{0,0,0,0,-2,1,0,1,0,0}^r \rho_3^4 \rho_4^2 \sin(2\phi_3) + b_{0,0,0,0,-2,2,0,0,0,0}^r \rho_3^6 \sin(2\phi_3) + \\
& b_{0,0,0,0,-4,0,0,0,-2,0}^r \rho_3^4 \rho_5^2 \sin(4\phi_3 + 2\phi_5) + b_{0,0,0,0,-4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \sin(4\phi_3 - 2\phi_4) + \\
& b_{0,0,0,0,0,0,-2,0,0,2}^r \rho_2^2 \rho_5^4 \sin(2\phi_4) + b_{0,0,0,0,0,0,-2,1,0,1}^r \rho_4^4 \rho_5^2 \sin(2\phi_4) + \\
& b_{0,0,0,0,0,0,-2,2,0,0}^r \rho_4^6 \sin(2\phi_4) + b_{0,0,0,0,0,0,-4,0,-2,0}^r \rho_4^4 \rho_5^2 \sin(4\phi_4 + 2\phi_5) + \\
& b_{0,0,0,0,0,0,0,0,-4,1}^r \rho_5^6 \sin(4\phi_5) - b_{0,0,0,0,0,0,0,0,2,2}^r \rho_5^6 \sin(2\phi_5) + \\
& b_{0,0,0,0,0,0,0,1,-4,0}^r \rho_4^2 \rho_5^4 \sin(4\phi_5) - b_{0,0,0,0,0,0,0,1,2,1}^r \rho_4^2 \rho_5^4 \sin(2\phi_5) - \\
& b_{0,0,0,0,0,0,0,2,2,0}^r \rho_4^4 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,0,0,2,0,-2,1}^r \rho_4^2 \rho_5^4 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,0,2,0,4,0}^r \rho_4^2 \rho_5^4 \sin(2\phi_4 + 4\phi_5) - b_{0,0,0,0,0,0,2,1,-2,0}^r \rho_4^4 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,0,4,0,0,1}^r \rho_4^4 \rho_5^2 \sin(4\phi_4) - b_{0,0,0,0,0,0,4,1,0,0}^r \rho_4^6 \sin(4\phi_4) + \\
& b_{0,0,0,0,0,0,1,-2,0,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_4) + b_{0,0,0,0,0,0,1,-2,1,0}^r \rho_3^2 \rho_4^4 \sin(2\phi_4) + \\
& b_{0,0,0,0,0,0,1,0,0,-4,0}^r \rho_3^2 \rho_5^4 \sin(4\phi_5) - b_{0,0,0,0,0,0,1,0,0,2,1}^r \rho_3^2 \rho_5^4 \sin(2\phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,0,0,1,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,0,1,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,1,4,0,0,0}^r \rho_3^2 \rho_4^4 \sin(4\phi_4) + b_{0,0,0,0,0,2,-2,0,0,0}^r \rho_3^4 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,0,0,2,0,0,2,0}^r \rho_3^4 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,0,2,0,-2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3 - 2\phi_4 + 2\phi_5) - \\
& b_{0,0,0,0,2,0,-4,0,0,0}^r \rho_3^2 \rho_4^4 \sin(2\phi_3 - 4\phi_4) - b_{0,0,0,0,2,0,0,0,-2,1}^r \rho_3^2 \rho_5^4 \sin(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,0,2,0,0,0,4,0}^r \rho_3^2 \rho_5^4 \sin(2\phi_3 + 4\phi_5) - b_{0,0,0,0,2,0,0,1,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,0,2,0,2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \sin(2\phi_3 + 2\phi_4) - b_{0,0,0,0,2,0,2,1,0,0}^r \rho_3^2 \rho_4^4 \sin(2\phi_3 + 2\phi_4) - \\
& b_{0,0,0,0,2,1,0,0,-2,0}^r \rho_3^4 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - b_{0,0,0,0,2,1,2,0,0,0}^r \rho_3^4 \rho_4^2 \sin(2\phi_3 + 2\phi_4) - \\
& b_{0,0,0,0,4,0,0,0,0,1}^r \rho_3^4 \rho_5^2 \sin(4\phi_3) - b_{0,0,0,0,4,0,0,1,0,0}^r \rho_3^4 \rho_4^2 \sin(4\phi_3) - \\
& b_{0,0,0,0,4,1,0,0,0,0}^r \rho_3^6 \sin(4\phi_3) + b_{0,0,0,1,-2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_3) + \\
& b_{0,0,0,1,-2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_3) + b_{0,0,0,1,-2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(2\phi_3) + \\
& b_{0,0,0,1,0,0,-2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_4) + b_{0,0,0,1,0,0,-2,1,0,0}^r \rho_2^2 \rho_4^4 \sin(2\phi_4) + \\
& b_{0,0,0,1,0,0,0,0,-4,0}^r \rho_2^2 \rho_5^4 \sin(4\phi_5) - b_{0,0,0,1,0,0,0,0,2,1}^r \rho_2^2 \rho_5^4 \sin(2\phi_5) - \\
& b_{0,0,0,1,0,0,0,1,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,1,0,0,2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,1,0,0,4,0,0,0}^r \rho_2^2 \rho_4^4 \sin(4\phi_4) + b_{0,0,0,1,0,1,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,1,0,1,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_5) - b_{0,0,0,1,2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,1,2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_3 + 2\phi_4) - b_{0,0,0,1,4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(4\phi_3) + \\
& b_{0,0,0,2,-2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(2\phi_3) + b_{0,0,0,2,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,0,0,2,0,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \sin(2\phi_5) + b_{0,0,1,0,-1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(-\phi_2 + \phi_3 + \phi_4 + \\
& \phi_5) + b_{0,0,1,0,-1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{0,0,1,0,-1,1,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,1,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 - 3\phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,1,0,1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,1,0,1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 + \phi_3 - 3\phi_4 - \phi_5) - \\
& b_{0,0,1,0,1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 + \phi_4 - 3\phi_5) - \\
& b_{0,0,1,0,1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \sin(\phi_2 + \phi_3 + \phi_4 + 3\phi_5) - \\
& b_{0,0,1,0,1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \sin(\phi_2 + \phi_3 + 3\phi_4 - \phi_5) - \\
& b_{0,0,1,0,1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,1,0,3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \sin(\phi_2 + 3\phi_3 + \phi_4 - \phi_5) + \\
& b_{0,0,1,1,-1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,1,-1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,1,1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) + b_{0,0,2,0,-2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(- \\
& 2\phi_2 + 2\phi_3 + 2\phi_5) - b_{0,0,2,0,-2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 - 2\phi_3 + 2\phi_4) + \\
& b_{0,0,2,0,0,0,-2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(-2\phi_2 + 2\phi_4 + 2\phi_5) - b_{0,0,2,0,0,0,0,0,2}^r \rho_2^2 \rho_5^4 \sin(2\phi_2) - \\
& b_{0,0,2,0,0,0,0,1,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2) - b_{0,0,2,0,0,0,0,2,0,0}^r \rho_2^4 \rho_4^4 \sin(2\phi_2) - \\
& b_{0,0,2,0,0,0,2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \sin(2\phi_2 + 2\phi_4 + 2\phi_5) - \\
& b_{0,0,2,0,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2) - b_{0,0,2,0,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2) - \\
& b_{0,0,2,0,0,2,0,0,0,0}^r \rho_2^2 \rho_3^4 \sin(2\phi_2) - b_{0,0,2,0,2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \sin(2\phi_2 + 2\phi_3 - 2\phi_4) - \\
& b_{0,0,2,0,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \sin(2\phi_2 + 2\phi_3 + 2\phi_5) - b_{0,0,2,1,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \sin(2\phi_2) -
\end{aligned}$$



$$\begin{aligned}
& b_{0,0,2,1,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \sin(2\phi_2) - b_{0,0,2,1,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(2\phi_2) - \\
& b_{0,0,2,2,0,0,0,0,0,0}^r \rho_2^6 \sin(2\phi_2) - b_{0,0,3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{0,0,3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_2 + \phi_3 + \phi_4 + \phi_5) - b_{0,0,4,0,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \sin(4\phi_2 - \\
& 2\phi_5) - b_{0,0,4,0,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \sin(4\phi_2 + 2\phi_4) - b_{0,0,4,0,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \sin(4\phi_2 + 2\phi_3) + \\
& b_{0,1,-1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& b_{0,1,-1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& b_{0,1,-2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_2 + 2\phi_5) + b_{0,1,-2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_2 - \\
& 2\phi_4) + b_{0,1,-2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_2 - 2\phi_3) + b_{0,1,-4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \sin(4\phi_2) + \\
& b_{0,1,0,0,-2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_3) + b_{0,1,0,0,-2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_3) + \\
& b_{0,1,0,0,-2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(2\phi_3) + b_{0,1,0,0,0,0,-2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_4) + \\
& b_{0,1,0,0,0,0,-2,1,0,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_4) + b_{0,1,0,0,0,0,0,-4,0}^r \rho_1^2 \rho_5^4 \sin(4\phi_5) - \\
& b_{0,1,0,0,0,0,0,0,2,1}^r \rho_1^2 \rho_5^4 \sin(2\phi_5) - b_{0,1,0,0,0,0,0,1,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_5) - \\
& b_{0,1,0,0,0,0,2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_4 - 2\phi_5) - b_{0,1,0,0,0,0,4,0,0,0}^r \rho_1^2 \rho_4^4 \sin(4\phi_4) + \\
& b_{0,1,0,0,0,1,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_4) - b_{0,1,0,0,0,1,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_5) - \\
& b_{0,1,0,0,2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_3 - 2\phi_5) - b_{0,1,0,0,2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_3 + \\
& 2\phi_4) - b_{0,1,0,0,4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(4\phi_3) + b_{0,1,0,1,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_3) + \\
& b_{0,1,0,1,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_4) - b_{0,1,0,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_5) + \\
& b_{0,1,1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,1,1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,1,1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,1,2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_2) - b_{0,1,2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_2) - \\
& b_{0,1,2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_2) - b_{0,1,2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \sin(2\phi_2) + \\
& b_{0,2,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(2\phi_3) + b_{0,2,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \sin(2\phi_4) - \\
& b_{0,2,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \sin(2\phi_5) - b_{0,2,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \sin(2\phi_2) + \\
& b_{1,0,-1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_3) + \\
& b_{1,0,-1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(-\phi_1 + \phi_2 + 2\phi_3) + b_{1,0,-1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(- \\
& \phi_1 + \phi_2 + 2\phi_3) + b_{1,0,-1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(-\phi_1 + \phi_2 + 2\phi_4) + \\
& b_{1,0,-1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(-\phi_1 + \phi_2 + 2\phi_4) + b_{1,0,-1,0,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \sin(-\phi_1 + \phi_2 + \\
& 4\phi_5) - b_{1,0,-1,0,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,0,-1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,0,-1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_4 - 2\phi_5) - \\
& b_{1,0,-1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 - \phi_2 + 4\phi_4) + b_{1,0,-1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(-\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{1,0,-1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,0,-1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_5) - \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 - \phi_2 + 4\phi_3) + b_{1,0,-1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(-\phi_1 + \phi_2 + \\
& 2\phi_3) + b_{1,0,-1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(-\phi_1 + \phi_2 + 2\phi_4) - \\
& b_{1,0,-1,1,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_5) + b_{1,0,-2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(- \\
& \phi_1 + 2\phi_2 + \phi_3 + \phi_4 - \phi_5) - b_{1,0,-2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 - \\
& \phi_5) + b_{1,0,-3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(-\phi_1 + 3\phi_2 + 2\phi_5) - \\
& b_{1,0,-3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 - 3\phi_2 + 2\phi_4) - b_{1,0,-3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 -
\end{aligned}$$

$$\begin{aligned}
& 3\phi_2 + 2\phi_3) - b_{1,0,-5,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \sin(\phi_1 - 5\phi_2) + b_{1,0,0,0,-1,0,-1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(- \\
& \phi_1 + \phi_3 + \phi_4 + \phi_5) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) + \\
& b_{1,0,0,0,-1,1,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,1,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 - 3\phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,0,0,1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,0,0,1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,0,0,1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 - 3\phi_4 - \phi_5) - \\
& b_{1,0,0,0,1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 + \phi_4 - 3\phi_5) - \\
& b_{1,0,0,0,1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \sin(\phi_1 + \phi_3 + \phi_4 + 3\phi_5) - \\
& b_{1,0,0,0,1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \sin(\phi_1 + \phi_3 + 3\phi_4 - \phi_5) - \\
& b_{1,0,0,0,1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,0,0,3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \sin(\phi_1 + 3\phi_3 + \phi_4 - \phi_5) + \\
& b_{1,0,0,1,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,1,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,1,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,1,0,-2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_5) - \\
& b_{1,0,1,0,-2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_4) - \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2 - 2\phi_4 - 2\phi_5) - \\
& b_{1,0,1,0,0,0,0,0,2}^r \rho_1 \rho_2 \rho_5^4 \sin(\phi_1 + \phi_2) - b_{1,0,1,0,0,0,0,1,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,0,0,0,0,2,0,0}^r \rho_1 \rho_2 \rho_4^4 \sin(\phi_1 + \phi_2) - b_{1,0,1,0,0,0,2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \sin(\phi_1 + \phi_2 + \\
& 2\phi_4 + 2\phi_5) - b_{1,0,1,0,0,1,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,0,0,1,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2) - b_{1,0,1,0,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,0,2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \sin(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_4) - \\
& b_{1,0,1,0,2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \sin(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5) - \\
& b_{1,0,1,1,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 + \phi_2) - b_{1,0,1,1,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,1,1,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 + \phi_2) - b_{1,0,1,2,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \sin(\phi_1 + \phi_2) - \\
& b_{1,0,2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{1,0,2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \sin(\phi_1 + 3\phi_2 - 2\phi_5) - b_{1,0,3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \sin(\phi_1 + \\
& 3\phi_2 + 2\phi_4) - b_{1,0,3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \sin(\phi_1 + 3\phi_2 + 2\phi_3) + \\
& b_{1,1,-1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(-\phi_1 + \phi_2 + 2\phi_3) + b_{1,1,-1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(-\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{1,1,-1,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(\phi_1 - \phi_2 + 2\phi_5) + \\
& b_{1,1,0,0,-1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,1,0,0,-1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,1,0,0,1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,1,1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \sin(\phi_1 + \phi_2) - b_{1,1,1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(\phi_1 + \phi_2) - \\
& b_{1,1,1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(\phi_1 + \phi_2) - b_{1,1,1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \sin(\phi_1 + \phi_2) - \\
& b_{1,2,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \sin(\phi_1 + \phi_2) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(-2\phi_1 + \phi_2 +
\end{aligned}$$

$$\begin{aligned}
& \phi_3 + \phi_4 + \phi_5) - b_{2,0,-1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{2,0,-1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 - \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& b_{2,0,-2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(-2\phi_1 + 2\phi_2 + 2\phi_3) + b_{2,0,-2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(- \\
& 2\phi_1 + 2\phi_2 + 2\phi_4) - b_{2,0,-2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1 - 2\phi_2 + 2\phi_5) + \\
& b_{2,0,0,0,-2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(-2\phi_1 + 2\phi_3 + 2\phi_5) - \\
& b_{2,0,0,0,-2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 - 2\phi_3 + 2\phi_4) + b_{2,0,0,0,0,0,-2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(- \\
& 2\phi_1 + 2\phi_4 + 2\phi_5) - b_{2,0,0,0,0,0,0,0,2}^r \rho_1^2 \rho_5^4 \sin(2\phi_1) - \\
& b_{2,0,0,0,0,0,0,1,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1) - b_{2,0,0,0,0,0,0,2,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_1) - \\
& b_{2,0,0,0,0,0,2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \sin(2\phi_1 + 2\phi_4 + 2\phi_5) - \\
& b_{2,0,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1) - b_{2,0,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1) - \\
& b_{2,0,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^4 \sin(2\phi_1) - b_{2,0,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \sin(2\phi_1 + 2\phi_3 - 2\phi_4) - \\
& b_{2,0,0,0,2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \sin(2\phi_1 + 2\phi_3 + 2\phi_5) - \\
& b_{2,0,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1) - b_{2,0,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1) - \\
& b_{2,0,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1) - b_{2,0,0,2,0,0,0,0,0,0}^r \rho_1^2 \rho_4^4 \sin(2\phi_1) - \\
& b_{2,0,1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{2,0,1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{2,0,1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \sin(2\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{2,0,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \sin(2\phi_1 + 2\phi_2 - 2\phi_5) - \\
& b_{2,0,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \sin(2\phi_1 + 2\phi_2 + 2\phi_4) - \\
& b_{2,0,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \sin(2\phi_1 + 2\phi_2 + 2\phi_3) - b_{2,1,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \sin(2\phi_1) - \\
& b_{2,1,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \sin(2\phi_1) - b_{2,1,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(2\phi_1) - \\
& b_{2,1,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \sin(2\phi_1) - b_{2,2,0,0,0,0,0,0,0,0}^r \rho_1^6 \sin(2\phi_1) - \\
& b_{3,0,-1,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \sin(3\phi_1 - \phi_2) - b_{3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(3\phi_1 - \phi_2) - \\
& b_{3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(3\phi_1 - \phi_2) - b_{3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \sin(3\phi_1 - \phi_2) - \\
& b_{3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \sin(3\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \sin(3\phi_1 + \phi_2 - 2\phi_5) - b_{3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \sin(3\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \sin(3\phi_1 + \phi_2 + 2\phi_3) - \\
& b_{3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \sin(3\phi_1 - \phi_2) - b_{4,0,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \sin(4\phi_1 - 2\phi_2) - \\
& b_{4,0,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \sin(4\phi_1 - 2\phi_5) - b_{4,0,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \sin(4\phi_1 + 2\phi_4) - \\
& b_{4,0,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \sin(4\phi_1 + 2\phi_3)
\end{aligned}$$

$$\begin{aligned}
H_{YY}^{(6)} = & a_{0,0,0,0,0,0,0,0,3}^r \rho_5^6 + a_{0,0,0,0,0,0,0,0,6,0}^r \rho_5^6 \cos(6\phi_5) + a_{0,0,0,0,0,0,0,1,0,2}^r \rho_4^2 \rho_5^4 + \\
& a_{0,0,0,0,0,0,0,2,0,1}^r \rho_4^4 \rho_5^2 + a_{0,0,0,0,0,0,0,3,0,0}^r \rho_4^6 + a_{0,0,0,0,0,0,0,2,0,-4,0}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 - 4\phi_5) + \\
& a_{0,0,0,0,0,0,0,2,0,2,1}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,0,0,2,1,2,0}^r \rho_4^4 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + \\
& a_{0,0,0,0,0,0,0,4,0,-2,0}^r \rho_4^4 \rho_5^2 \cos(4\phi_4 - 2\phi_5) + a_{0,0,0,0,0,0,0,6,0,0}^r \rho_4^6 \cos(6\phi_4) + \\
& a_{0,0,0,0,0,1,0,0,0,2}^r \rho_3^2 \rho_5^4 + a_{0,0,0,0,0,1,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 + a_{0,0,0,0,0,1,0,2,0,0}^r \rho_3^2 \rho_4^4 + \\
& a_{0,0,0,0,0,1,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,0,0,2,0,0,0,1}^r \rho_3^4 \rho_5^2 + \\
& a_{0,0,0,0,0,2,0,1,0,0}^r \rho_3^4 \rho_4^2 + a_{0,0,0,0,0,3,0,0,0,0}^r \rho_3^6 + a_{0,0,0,0,2,0,-2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 - \\
& 2\phi_4) + a_{0,0,0,0,2,0,-2,1,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,0,2,0,0,0,-4,0}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 - 4\phi_5) + \\
& a_{0,0,0,0,2,0,0,0,2,1}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 + 2\phi_5) + a_{0,0,0,0,2,0,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{0,0,0,0,2,0,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_4 - 2\phi_5) + a_{0,0,0,0,2,0,4,0,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 + 4\phi_4) + a_{0,0,0,0,2,1,-2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,0,2,1,0,0,2,0}^r \rho_3^4 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + \\
& a_{0,0,0,0,4,0,0,0,-2,0}^r \rho_3^4 \rho_5^2 \cos(4\phi_3 - 2\phi_5) + a_{0,0,0,0,4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(4\phi_3 + 2\phi_4) + a_{0,0,0,0,6,0,0,0,0,0}^r \rho_3^6 \cos(6\phi_3) + a_{0,0,0,1,0,0,0,0,2}^r \rho_2^2 \rho_5^4 + a_{0,0,0,1,0,0,0,1,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 + \\
& a_{0,0,0,1,0,0,0,2,0,0}^r \rho_2^2 \rho_4^4 + a_{0,0,0,1,0,0,2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,0,0,1,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 + a_{0,0,0,1,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 + a_{0,0,0,1,0,2,0,0,0,0}^r \rho_2^2 \rho_3^4 + \\
& a_{0,0,0,1,2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,0,0,1,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 + 2\phi_5) + a_{0,0,0,2,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 + a_{0,0,0,2,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 + a_{0,0,0,2,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 + \\
& a_{0,0,0,3,0,0,0,0,0,0}^r \rho_2^6 + a_{0,0,1,0,-1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_2 + \phi_3 + \phi_4 + 3\phi_5) + a_{0,0,1,0,-1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 - \phi_4 + 3\phi_5) + \\
& a_{0,0,1,0,-1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 - 3\phi_4 + \phi_5) + a_{0,0,1,0,-1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,0,-1,0,1,1,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + a_{0,0,1,0,-1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + 3\phi_4 + \phi_5) + \\
& a_{0,0,1,0,-1,1,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + a_{0,0,1,0,-3,0,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 - 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{0,0,1,0,1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + a_{0,0,1,0,1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,0,1,0,1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + a_{0,0,1,0,1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,1,0,1,1,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + a_{0,0,1,0,1,1,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,1,0,3,0,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5^3 \cos(\phi_2 + 3\phi_3 - \phi_4 + \phi_5) + a_{0,0,1,1,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,0,1,1,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + a_{0,0,1,1,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,0,2,0,-2,0,-2,0,-2,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(-2\phi_2 + 2\phi_3 + 2\phi_4) + a_{0,0,2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_3 + 2\phi_5) + \\
& a_{0,0,2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 - 4\phi_3) + a_{0,0,2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 - 2\phi_4 + 2\phi_5) + a_{0,0,2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 - 4\phi_4) + a_{0,0,2,0,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 - 2\phi_5) + \\
& a_{0,0,2,0,0,0,0,0,4,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 + 4\phi_5) + a_{0,0,2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,0,2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_4) + \\
& a_{0,0,2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + \\
& a_{0,0,2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,0,2,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_3) + a_{0,0,2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + 2\phi_3) + \\
& a_{0,0,2,1,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,0,2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_2 + 2\phi_4) + a_{0,0,2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + a_{0,0,3,0,-1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& a_{0,0,3,0,1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 + \phi_3 + \phi_4 - \phi_5) + a_{0,0,4,0,-2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(4\phi_2 - 2\phi_3) + a_{0,0,4,0,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(4\phi_2 - 2\phi_4) + \\
& a_{0,0,4,0,0,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \cos(4\phi_2 + 2\phi_5) + a_{0,0,6,0,0,0,0,0,0,0}^r \rho_2^6 \cos(6\phi_2) + a_{0,1,0,0,0,0,0,0,2}^r \rho_1^2 \rho_5^4 + a_{0,1,0,0,0,0,0,1,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 + a_{0,1,0,0,0,0,2,0,0,0}^r \rho_1^2 \rho_4^4 + \\
& a_{0,1,0,0,0,0,2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 + 2\phi_5) + a_{0,1,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 + a_{0,1,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 + a_{0,1,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^2
\end{aligned}$$

$$\begin{aligned}
& a_{0,1,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 - 2\phi_4) + a_{0,1,0,0,2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 + \\
& 2\phi_5) + a_{0,1,0,1,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 + a_{0,1,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 + \\
& a_{0,1,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 + a_{0,1,0,2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 + \\
& a_{0,1,1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{0,1,1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{0,1,1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{0,1,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_2 - 2\phi_5) + a_{0,1,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_2 + \\
& 2\phi_4) + a_{0,1,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_2 + 2\phi_3) + a_{0,2,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 + \\
& a_{0,2,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 + a_{0,2,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 + a_{0,2,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 + \\
& a_{0,3,0,0,0,0,0,0,0,0}^r \rho_1^6 + a_{1,0,-1,0,-2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5) + \\
& a_{1,0,-1,0,-2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 - 2\phi_3 + 2\phi_4) + \\
& a_{1,0,-1,0,0,0,-2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_4 + 2\phi_5) + \\
& a_{1,0,-1,0,0,0,0,0,2}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,0,0,1,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,0,0,2,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,0,2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + \\
& 2\phi_4 + 2\phi_5) + a_{1,0,-1,0,0,1,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,0,1,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,0,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,0,2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_4) + \\
& a_{1,0,-1,0,2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_5) + \\
& a_{1,0,-1,1,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,1,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-1,1,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - \phi_2) + a_{1,0,-1,2,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 - \phi_2) + \\
& a_{1,0,-2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,-2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,-2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,-3,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(-\phi_1 + 3\phi_2 + 2\phi_3) + a_{1,0,-3,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(-\phi_1 + \\
& 3\phi_2 + 2\phi_4) + a_{1,0,-3,0,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - 3\phi_2 + 2\phi_5) + \\
& a_{1,0,0,0,-1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_1 + \phi_3 + \phi_4 + 3\phi_5) + \\
& a_{1,0,0,0,-1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 - \phi_4 + 3\phi_5) + \\
& a_{1,0,0,0,-1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 - 3\phi_4 + \phi_5) + \\
& a_{1,0,0,0,-1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + 3\phi_4 + \phi_5) + \\
& a_{1,0,0,0,-1,1,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,0,-3,0,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,0,-1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,1,1,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,0,0,0,1,1,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,0,0,3,0,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + 3\phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,0,1,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,0,1,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{1,0,0,1,1,0,1,0,1,0}^r \rho_1^2 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,0,1,0,-2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_4) + \\
& a_{1,0,1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_5) + \\
& a_{1,0,1,0,-4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \phi_2 - 4\phi_3) + a_{1,0,1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \\
& \phi_2 - 2\phi_4 + 2\phi_5) + a_{1,0,1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \phi_2 - 4\phi_4) + \\
& a_{1,0,1,0,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 - 2\phi_5) + a_{1,0,1,0,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 + \\
& 4\phi_5) + a_{1,0,1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \\
& \phi_2 + 2\phi_4) + a_{1,0,1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + \\
& a_{1,0,1,0,2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + \\
& a_{1,0,1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,0,1,0,2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \\
& \phi_2 + 2\phi_3) + a_{1,0,1,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + \\
& a_{1,0,1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_4) + a_{1,0,1,1,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_3) + a_{1,0,2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 - \phi_3 - \phi_4 + \phi_5) + \\
& a_{1,0,2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{1,0,3,0,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + 3\phi_2 - 2\phi_3) + a_{1,0,3,0,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \\
& 3\phi_2 - 2\phi_4) + a_{1,0,3,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + 3\phi_2 + 2\phi_5) + \\
& a_{1,0,5,0,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 + 5\phi_2) + a_{1,1,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,1,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 - \phi_2) + a_{1,1,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2) + \\
& a_{1,1,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(\phi_1 - \phi_2) + a_{1,1,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 - \\
& \phi_5) + a_{1,1,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 - \phi_5) + \\
& a_{1,1,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{1,1,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_5) + a_{1,1,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_4) + a_{1,1,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 + 2\phi_3) + a_{1,2,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(\phi_1 - \\
& \phi_2) + a_{2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 + \phi_3 - \phi_4 + \phi_5) + \\
& a_{2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) + \\
& a_{2,0,-2,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 - 2\phi_2) + a_{2,0,-2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 - \\
& 2\phi_2) + a_{2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 - 2\phi_2) + a_{2,0,-2,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^4 \cos(2\phi_1 - \\
& 2\phi_2) + a_{2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(-2\phi_1 + 2\phi_3 + 2\phi_4) + \\
& a_{2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_3 + 2\phi_5) + a_{2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 - \\
& 4\phi_3) + a_{2,0,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_4 + 2\phi_5) + \\
& a_{2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 - 4\phi_4) + a_{2,0,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,0,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 + 4\phi_5) + a_{2,0,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_4) + a_{2,0,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 + 2\phi_4) + \\
& a_{2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + \\
& 2\phi_4) + a_{2,0,0,0,2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + 2\phi_3) + a_{2,0,0,0,2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + a_{2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + \\
& 2\phi_4) + a_{2,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 - \phi_3 - \phi_4 + \phi_5) +
\end{aligned}$$

$$\begin{aligned}
& a_{2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_3) + \\
& a_{2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_4) + \\
& a_{2,0,2,0,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_2 + 2\phi_5) + a_{2,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 + \\
& 4\phi_2) + a_{2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_1 - 2\phi_2) + a_{2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \cos(2\phi_1 - 2\phi_5) + \\
& a_{2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_1 + 2\phi_4) + a_{2,1,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_1 + 2\phi_3) + \\
& a_{3,0,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(-3\phi_1 + \phi_2 + 2\phi_5) + a_{3,0,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 - \\
& \phi_2 + 2\phi_4) + a_{3,0,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 - \phi_2 + 2\phi_3) + \\
& a_{3,0,-3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 - 3\phi_2) + a_{3,0,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 - \phi_3 - \\
& \phi_4 + \phi_5) + a_{3,0,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 + \phi_4 - \phi_5) + \\
& a_{3,0,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 + \phi_2 - 2\phi_3) + a_{3,0,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 + \\
& \phi_2 - 2\phi_4) + a_{3,0,1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 + \phi_2 + 2\phi_5) + \\
& a_{3,0,3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 + 3\phi_2) + a_{4,0,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(4\phi_1 - 2\phi_3) + \\
& a_{4,0,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(4\phi_1 - 2\phi_4) + a_{4,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \cos(4\phi_1 + 2\phi_5) + \\
& a_{4,0,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(4\phi_1 + 2\phi_2) + a_{5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(5\phi_1 + \phi_2) + \\
& a_{6,0,0,0,0,0,0,0,0,0}^r \rho_1^6 \cos(6\phi_1) - b_{-1,0,-1,0,-2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_5) - \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \phi_2 + 4\phi_3) - b_{-1,0,-1,0,0,0,-2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \\
& \phi_2 + 2\phi_4 - 2\phi_5) - b_{-1,0,-1,0,0,0,-4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \phi_2 + 4\phi_4) - \\
& b_{-1,0,-1,0,0,0,0,0,-2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 + 2\phi_5) - b_{-1,0,-1,0,0,0,0,0,4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2 - \\
& 4\phi_5) - b_{-1,0,-1,0,0,0,0,1,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{-1,0,-1,0,0,0,2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_4) - b_{-1,0,-1,0,0,0,2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \\
& \phi_2 - 2\phi_4) - b_{-1,0,-1,0,0,1,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{-1,0,-1,0,0,1,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_4) - \\
& b_{-1,0,-1,0,2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_3) - \\
& b_{-1,0,-1,0,2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_3) - b_{-1,0,-1,0,2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \\
& \phi_2 - 2\phi_3) - b_{-1,0,-1,1,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{-1,0,-1,1,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_4) - b_{-1,0,-1,1,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + \\
& \phi_2 - 2\phi_3) - b_{-1,0,-2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{-1,0,-2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,-2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,-3,0,0,0,0,0,1,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + 3\phi_2) - b_{-1,0,-3,0,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + 3\phi_2) - \\
& b_{-1,0,-3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + 3\phi_2) - b_{-1,0,-3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 + 3\phi_2) - \\
& b_{-1,0,0,0,-1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{-1,0,0,0,-1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{-1,0,0,0,-1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + 3\phi_4 + \phi_5) - \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 + 3\phi_5) - \\
& b_{-1,0,0,0,-1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 - 3\phi_5) - \\
& b_{-1,0,0,0,-1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - 3\phi_4 + \phi_5) - \\
& b_{-1,0,0,0,-1,1,-1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{-1,0,0,0,-3,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,0,0,-3,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + 3\phi_3 - \phi_4 - \phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,1,0,-1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 + 3\phi_5) - \\
& b_{-1,0,0,0,1,0,-1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 - 3\phi_5) - \\
& b_{-1,0,0,0,1,0,-3,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + 3\phi_4 - \phi_5) - \\
& b_{-1,0,0,0,1,0,1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{-1,0,0,0,1,0,3,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_1 + \phi_3 + 3\phi_4 + \phi_5) - \\
& b_{-1,0,0,0,1,1,1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{-1,0,0,0,3,0,-1,0,-1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,0,0,3,0,1,0,1,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_1 + 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,0,1,-1,0,-1,0,1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5^2 \cos(\phi_1 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{-1,0,0,1,1,0,1,0,-1,0}^r \rho_1 \rho_2 \rho_3 \rho_4 \rho_5^2 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{-1,0,1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_3) - \\
& b_{-1,0,1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_3) - b_{-1,0,1,0,-2,1,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 - \\
& \phi_2 + 2\phi_3) - b_{-1,0,1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_4) - \\
& b_{-1,0,1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 - \phi_2 + 2\phi_4) - b_{-1,0,1,0,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 - \phi_2 + \\
& 4\phi_5) - b_{-1,0,1,0,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(-\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{-1,0,1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{-1,0,1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 - 2\phi_4 + 2\phi_5) - b_{-1,0,1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(- \\
& \phi_1 + \phi_2 + 4\phi_4) - b_{-1,0,1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_4) - \\
& b_{-1,0,1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{-1,0,1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 - 2\phi_3 + 2\phi_5) - \\
& b_{-1,0,1,0,2,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(-\phi_1 + \phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{-1,0,1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(-\phi_1 + \phi_2 + 4\phi_3) - b_{-1,0,1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - \phi_2 + \\
& 2\phi_3) - b_{-1,0,1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_4) - b_{-1,0,1,1,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(- \\
& \phi_1 + \phi_2 + 2\phi_5) - b_{-1,0,2,0,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,2,0,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + 2\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-1,0,2,0,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + 2\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{-1,0,3,0,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - 3\phi_2) - b_{-1,0,3,0,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - 3\phi_2) - \\
& b_{-1,0,3,0,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - 3\phi_2) - b_{-1,0,3,1,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 - 3\phi_2) - \\
& b_{-1,1,-1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_5) - b_{-1,1,-1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 + \\
& \phi_2 - 2\phi_4) - b_{-1,1,-1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2 - 2\phi_3) - \\
& b_{-1,1,-3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(\phi_1 + 3\phi_2) - b_{-1,1,0,0,-1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 + \phi_4 - \\
& \phi_5) - b_{-1,1,0,0,1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{-1,1,1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 - \phi_2 + 2\phi_3) - b_{-1,1,1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 - \\
& \phi_2 + 2\phi_4) - b_{-1,1,1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_5) - \\
& b_{-1,1,3,0,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(\phi_1 - 3\phi_2) - b_{-2,0,-1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \\
& \phi_3 - \phi_4 + \phi_5) - b_{-2,0,-1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-2,0,-1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 - \phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{-2,0,-2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_2) - b_{-2,0,-2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + \\
& 2\phi_2) - b_{-2,0,-2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_2) - b_{-2,0,-2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 + \\
& 2\phi_2) - b_{-2,0,0,0,-2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + 2\phi_3 + 2\phi_4) - \\
& b_{-2,0,0,0,-2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_3 - 2\phi_5) - b_{-2,0,0,0,-4,0,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 +
\end{aligned}$$



$$\begin{aligned}
& 4\phi_3) - b_{-2,0,0,0,0,0,-2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_4 - 2\phi_5) - \\
& b_{-2,0,0,0,0,0,-4,0,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 + 4\phi_4) - b_{-2,0,0,0,0,0,0,-2,1}^r \rho_1^2 \rho_5^4 \cos(2\phi_1 + 2\phi_5) - \\
& b_{-2,0,0,0,0,0,0,4,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 - 4\phi_5) - b_{-2,0,0,0,0,0,1,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_5) - \\
& b_{-2,0,0,0,0,0,2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 - 2\phi_4) - b_{-2,0,0,0,0,0,2,1,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_1 - 2\phi_4) - \\
& b_{-2,0,0,0,0,1,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_5) - b_{-2,0,0,0,0,1,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 - \\
& 2\phi_4) - b_{-2,0,0,0,2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 - 2\phi_3) - \\
& b_{-2,0,0,0,2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 - 2\phi_3) - b_{-2,0,0,0,2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1 - 2\phi_3) - \\
& b_{-2,0,0,1,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_5) - b_{-2,0,0,1,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 - \\
& 2\phi_4) - b_{-2,0,0,1,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 - 2\phi_3) - \\
& b_{-2,0,1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{-2,0,1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{-2,0,2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 - 2\phi_2 + 2\phi_3) - \\
& b_{-2,0,2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 - 2\phi_2 + 2\phi_4) - b_{-2,0,2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(- \\
& 2\phi_1 + 2\phi_2 + 2\phi_5) - b_{-2,0,4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1 - 4\phi_2) - \\
& b_{-2,1,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_1 + 2\phi_2) - b_{-2,1,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \cos(2\phi_1 + 2\phi_5) - \\
& b_{-2,1,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_1 - 2\phi_4) - b_{-2,1,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_1 - 2\phi_3) - \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 + \phi_2) - b_{-3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 + \phi_2) - \\
& b_{-3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 + \phi_2) - b_{-3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 + \phi_2) - \\
& b_{-3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{-3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{-3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(-3\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{-3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 - \phi_2 + 2\phi_5) - b_{-3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(-3\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{-3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(-3\phi_1 + \phi_2 + 2\phi_3) - \\
& b_{-3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(3\phi_1 + \phi_2) - b_{-4,0,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \cos(4\phi_1) - \\
& b_{-4,0,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \cos(4\phi_1) - b_{-4,0,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(4\phi_1) - \\
& b_{-4,0,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(4\phi_1) - b_{-4,1,0,0,0,0,0,0,0,0}^r \rho_1^6 \cos(4\phi_1) - \\
& b_{-5,0,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(5\phi_1 - \phi_2) - b_{0,0,-1,0,-1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 - \\
& \phi_5) - b_{0,0,-1,0,-1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + 3\phi_4 + \phi_5) - \\
& b_{0,0,-1,0,-1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 + 3\phi_5) - \\
& b_{0,0,-1,0,-1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 - 3\phi_5) - \\
& b_{0,0,-1,0,-1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 - 3\phi_4 + \phi_5) - \\
& b_{0,0,-1,0,-1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-1,0,-3,0,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + 3\phi_3 - \phi_4 - \phi_5) - \\
& b_{0,0,-1,0,1,0,-1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 + 3\phi_5) - \\
& b_{0,0,-1,0,1,0,-1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 - 3\phi_5) - \\
& b_{0,0,-1,0,1,0,-3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 - \phi_3 + 3\phi_4 - \phi_5) - \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,-1,0,1,0,1,1,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(-\phi_2 + \phi_3 + 3\phi_4 + \phi_5) - \\
& b_{0,0,-1,0,1,1,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,-1,0,3,0,-1,0,-1,0}^r \rho_2^3 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-1,0,3,0,1,0,1,0}^r \rho_2^3 \rho_3^3 \rho_4 \rho_5 \cos(-\phi_2 + 3\phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-1,1,-1,0,-1,0,1,0}^r \rho_2^3 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,-1,1,1,0,1,0,-1,0}^r \rho_2^3 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,-2,0,-2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{0,0,-2,0,-2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_3 - 2\phi_5) - b_{0,0,-2,0,-4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 + \\
& 4\phi_3) - b_{0,0,-2,0,0,0,-2,0,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_4 - 2\phi_5) - \\
& b_{0,0,-2,0,0,0,-4,0,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 + 4\phi_4) - b_{0,0,-2,0,0,0,0,-2,1}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 + 2\phi_5) - \\
& b_{0,0,-2,0,0,0,0,0,4,0}^r \rho_2^2 \rho_5^4 \cos(2\phi_2 - 4\phi_5) - b_{0,0,-2,0,0,0,0,1,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_5) - \\
& b_{0,0,-2,0,0,0,2,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_4) - b_{0,0,-2,0,0,0,2,1,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2 - 2\phi_4) - \\
& b_{0,0,-2,0,0,1,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_5) - b_{0,0,-2,0,0,1,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 - \\
& 2\phi_4) - b_{0,0,-2,0,2,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 - 2\phi_3) - \\
& b_{0,0,-2,0,2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 - 2\phi_3) - b_{0,0,-2,0,2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2 - 2\phi_3) - \\
& b_{0,0,-2,1,0,0,0,0,-2,0}^r \rho_2^4 \rho_5^2 \cos(2\phi_2 + 2\phi_5) - b_{0,0,-2,1,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_2 - 2\phi_4) - \\
& b_{0,0,-2,1,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_2 - 2\phi_3) - b_{0,0,-3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 + \phi_3 - \\
& \phi_4 + \phi_5) - b_{0,0,-3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(-3\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,-4,0,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \cos(4\phi_2) - b_{0,0,-4,0,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \cos(4\phi_2) - \\
& b_{0,0,-4,0,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(4\phi_2) - b_{0,0,-4,1,0,0,0,0,0,0}^r \rho_2^6 \cos(4\phi_2) - \\
& b_{0,0,0,0,-2,0,-2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_4 + 2\phi_5) - b_{0,0,0,0,-2,0,0,0,0,2}^r \rho_3^2 \rho_5^4 \cos(2\phi_3) - \\
& b_{0,0,0,0,-2,0,0,1,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3) - b_{0,0,0,0,-2,0,0,2,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3) - \\
& b_{0,0,0,0,-2,0,2,0,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(-2\phi_3 + 2\phi_4 + 2\phi_5) - b_{0,0,0,0,-2,1,0,0,0,1}^r \rho_3^4 \rho_5^2 \cos(2\phi_3) - \\
& b_{0,0,0,0,-2,1,0,1,0,0}^r \rho_3^4 \rho_4^2 \cos(2\phi_3) - b_{0,0,0,0,-2,2,0,0,0,0}^r \rho_3^6 \cos(2\phi_3) - \\
& b_{0,0,0,0,-4,0,0,0,-2,0}^r \rho_3^4 \rho_5^2 \cos(4\phi_3 + 2\phi_5) - b_{0,0,0,0,-4,0,2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(4\phi_3 - 2\phi_4) - \\
& b_{0,0,0,0,0,0,-2,0,0,2}^r \rho_4^2 \rho_5^4 \cos(2\phi_4) - b_{0,0,0,0,0,0,-2,1,0,1}^r \rho_4^4 \rho_5^2 \cos(2\phi_4) - \\
& b_{0,0,0,0,0,0,-2,2,0,0}^r \rho_4^6 \cos(2\phi_4) - b_{0,0,0,0,0,0,-4,0,-2,0}^r \rho_4^4 \rho_5^2 \cos(4\phi_4 + 2\phi_5) - \\
& b_{0,0,0,0,0,0,0,-4,1}^r \rho_5^6 \cos(4\phi_5) - b_{0,0,0,0,0,0,0,0,2,2}^r \rho_5^6 \cos(2\phi_5) - \\
& b_{0,0,0,0,0,0,0,1,-4,0}^r \rho_4^2 \rho_5^4 \cos(4\phi_5) - b_{0,0,0,0,0,0,0,1,2,1}^r \rho_4^2 \rho_5^4 \cos(2\phi_5) - \\
& b_{0,0,0,0,0,0,0,2,2,0}^r \rho_4^4 \rho_5^2 \cos(2\phi_5) - b_{0,0,0,0,0,0,2,0,-2,1}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,0,2,0,4,0}^r \rho_4^2 \rho_5^4 \cos(2\phi_4 + 4\phi_5) - b_{0,0,0,0,0,0,2,1,-2,0}^r \rho_4^4 \rho_5^2 \cos(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,0,4,0,0,1}^r \rho_4^4 \rho_5^2 \cos(4\phi_4) - b_{0,0,0,0,0,0,4,1,0,0}^r \rho_4^6 \cos(4\phi_4) - \\
& b_{0,0,0,0,0,1,-2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_4) - b_{0,0,0,0,0,1,-2,1,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_4) - \\
& b_{0,0,0,0,0,1,0,0,-4,0}^r \rho_3^2 \rho_5^4 \cos(4\phi_5) - b_{0,0,0,0,0,1,0,0,2,1}^r \rho_3^2 \rho_5^4 \cos(2\phi_5) - \\
& b_{0,0,0,0,0,1,0,1,2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_5) - b_{0,0,0,0,0,1,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,0,0,1,4,0,0,0}^r \rho_3^2 \rho_4^4 \cos(4\phi_4) - b_{0,0,0,0,0,2,-2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(2\phi_4) - \\
& b_{0,0,0,0,0,2,0,0,2,0}^r \rho_3^4 \rho_5^2 \cos(2\phi_5) - b_{0,0,0,0,0,2,0,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 - 2\phi_4 + 2\phi_5) - \\
& b_{0,0,0,0,2,0,-4,0,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 - 4\phi_4) - b_{0,0,0,0,2,0,0,0,-2,1}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,0,2,0,0,0,4,0}^r \rho_3^2 \rho_5^4 \cos(2\phi_3 + 4\phi_5) - b_{0,0,0,0,2,0,0,1,-2,0}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,0,2,0,2,0,0,1}^r \rho_3^2 \rho_4^2 \rho_5^2 \cos(2\phi_3 + 2\phi_4) - b_{0,0,0,0,2,0,2,1,0,0}^r \rho_3^2 \rho_4^4 \cos(2\phi_3 + 2\phi_4) - \\
& b_{0,0,0,0,2,1,0,0,-2,0}^r \rho_3^4 \rho_5^2 \cos(2\phi_3 - 2\phi_5) - b_{0,0,0,0,2,1,2,0,0,0}^r \rho_3^4 \rho_4^2 \cos(2\phi_3 + 2\phi_4) - \\
& b_{0,0,0,0,4,0,0,0,0,1}^r \rho_3^4 \rho_5^2 \cos(4\phi_3) - b_{0,0,0,0,4,0,0,1,0,0}^r \rho_3^4 \rho_4^2 \cos(4\phi_3) - \\
& b_{0,0,0,0,4,1,0,0,0,0}^r \rho_3^6 \cos(4\phi_3) - b_{0,0,0,1,-2,0,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_3) -
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,1,-2,0,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_3) - b_{0,0,0,1,-2,1,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_3) - \\
& b_{0,0,0,1,0,0,-2,0,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_4) - b_{0,0,0,1,0,0,-2,1,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_4) - \\
& b_{0,0,0,1,0,0,0,0,-4,0}^r \rho_2^2 \rho_5^4 \cos(4\phi_5) - b_{0,0,0,1,0,0,0,0,2,1}^r \rho_2^2 \rho_5^4 \cos(2\phi_5) - \\
& b_{0,0,0,1,0,0,0,1,2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_5) - b_{0,0,0,1,0,0,2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 - 2\phi_5) - \\
& b_{0,0,0,1,0,0,4,0,0,0}^r \rho_2^2 \rho_4^4 \cos(4\phi_4) - b_{0,0,0,1,0,1,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_4) - \\
& b_{0,0,0,1,0,1,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_5) - b_{0,0,0,1,2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 - 2\phi_5) - \\
& b_{0,0,0,1,2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 + 2\phi_4) - b_{0,0,0,1,4,0,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(4\phi_3) - \\
& b_{0,0,0,2,-2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_3) - b_{0,0,0,2,0,0,-2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_4) - \\
& b_{0,0,0,2,0,0,0,0,2,0}^r \rho_2^4 \rho_5^2 \cos(2\phi_5) - b_{0,0,1,0,-1,0,-1,0,-1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5 + \phi_5) - \\
& b_{0,0,1,0,-1,0,-1,1,-1,0}^r \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,0,1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,0,1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,1,-1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-1,1,1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 - 3\phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,1,0,1,0,-1,0,1,1}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,1,0,1,0,-1,1,1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 - 3\phi_4 - \phi_5) - \\
& b_{0,0,1,0,1,0,1,0,-3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 - 3\phi_5) - \\
& b_{0,0,1,0,1,0,1,0,3,0}^r \rho_2 \rho_3 \rho_4 \rho_5^3 \cos(\phi_2 + \phi_3 + \phi_4 + 3\phi_5) - \\
& b_{0,0,1,0,1,0,3,0,-1,0}^r \rho_2 \rho_3 \rho_4^3 \rho_5 \cos(\phi_2 + \phi_3 + 3\phi_4 - \phi_5) - \\
& b_{0,0,1,0,1,1,-1,0,1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,0,1,0,3,0,1,0,-1,0}^r \rho_2 \rho_3^3 \rho_4 \rho_5 \cos(\phi_2 + 3\phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,1,1,-1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,1,-1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,0,1,1,1,0,-1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) - b_{0,0,2,0,-2,0,0,0,-2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(- \\
& 2\phi_2 + 2\phi_3 + 2\phi_5) - b_{0,0,2,0,-2,0,2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 - 2\phi_3 + 2\phi_4) - \\
& b_{0,0,2,0,0,0,-2,0,-2,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(-2\phi_2 + 2\phi_4 + 2\phi_5) - b_{0,0,2,0,0,0,0,0,2}^r \rho_2^2 \rho_5^4 \cos(2\phi_2) - \\
& b_{0,0,2,0,0,0,0,1,0,1}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2) - b_{0,0,2,0,0,0,0,2,0,0}^r \rho_2^2 \rho_4^4 \cos(2\phi_2) - \\
& b_{0,0,2,0,0,0,0,2,0,0}^r \rho_2^2 \rho_4^2 \rho_5^2 \cos(2\phi_2 + 2\phi_4 + 2\phi_5) - \\
& b_{0,0,2,0,0,1,0,0,0,1}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2) - b_{0,0,2,0,0,1,0,1,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2) - \\
& b_{0,0,2,0,0,2,0,0,0,0}^r \rho_2^2 \rho_3^4 \cos(2\phi_2) - b_{0,0,2,0,2,0,-2,0,0,0}^r \rho_2^2 \rho_3^2 \rho_4^2 \cos(2\phi_2 + 2\phi_3 - 2\phi_4) - \\
& b_{0,0,2,0,2,0,0,0,2,0}^r \rho_2^2 \rho_3^2 \rho_5^2 \cos(2\phi_2 + 2\phi_3 + 2\phi_5) - b_{0,0,2,1,0,0,0,0,0,1}^r \rho_2^4 \rho_5^2 \cos(2\phi_2) - \\
& b_{0,0,2,1,0,0,0,1,0,0}^r \rho_2^4 \rho_4^2 \cos(2\phi_2) - b_{0,0,2,1,0,1,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(2\phi_2) - \\
& b_{0,0,2,2,0,0,0,0,0,0}^r \rho_2^6 \cos(2\phi_2) - b_{0,0,3,0,-1,0,1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,0,3,0,1,0,-1,0,-1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{0,0,3,0,1,0,1,0,1,0}^r \rho_2^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_2 + \phi_3 + \phi_4 + \phi_5) - b_{0,0,4,0,0,0,0,0,-2,0}^r \rho_4^4 \rho_5^2 \cos(4\phi_2 - \\
& 2\phi_5) - b_{0,0,4,0,0,0,2,0,0,0}^r \rho_2^4 \rho_4^2 \cos(4\phi_2 + 2\phi_4) - b_{0,0,4,0,2,0,0,0,0,0}^r \rho_2^4 \rho_3^2 \cos(4\phi_2 + 2\phi_3) - \\
& b_{0,1,-1,0,-1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 + \phi_4 - \phi_5) - \\
& b_{0,1,-1,0,1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,1,-2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_2 + 2\phi_5) - b_{0,1,-2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_2 - \\
& 2\phi_4) - b_{0,1,-2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_2 - 2\phi_3) - b_{0,1,-4,0,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(4\phi_2) -
\end{aligned}$$

$$\begin{aligned}
& b_{0,1,0,0,-2,0,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_3) - b_{0,1,0,0,-2,0,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_3) - \\
& b_{0,1,0,0,-2,1,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_3) - b_{0,1,0,0,0,0,-2,0,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_4) - \\
& b_{0,1,0,0,0,0,-2,1,0,0}^r \rho_1^2 \rho_4^4 \cos(2\phi_4) - b_{0,1,0,0,0,0,0,0,-4,0}^r \rho_1^2 \rho_5^4 \cos(4\phi_5) - \\
& b_{0,1,0,0,0,0,0,0,2,1}^r \rho_1^2 \rho_5^4 \cos(2\phi_5) - b_{0,1,0,0,0,0,1,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_5) - \\
& b_{0,1,0,0,0,0,2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_4 - 2\phi_5) - b_{0,1,0,0,0,0,4,0,0,0}^r \rho_1^2 \rho_4^4 \cos(4\phi_4) - \\
& b_{0,1,0,0,0,1,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_4) - b_{0,1,0,0,0,1,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_5) - \\
& b_{0,1,0,0,2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_3 - 2\phi_5) - b_{0,1,0,0,2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_3 + \\
& 2\phi_4) - b_{0,1,0,0,4,0,0,0,0,0}^r \rho_1^2 \rho_4^4 \cos(4\phi_3) - b_{0,1,0,1,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_3) - \\
& b_{0,1,0,1,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_4) - b_{0,1,0,1,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_5) - \\
& b_{0,1,1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,1,1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{0,1,1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(\phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{0,1,2,0,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_2) - b_{0,1,2,0,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_2) - \\
& b_{0,1,2,0,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_2) - b_{0,1,2,1,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_2) - \\
& b_{0,2,0,0,-2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_3) - b_{0,2,0,0,0,0,-2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_4) - \\
& b_{0,2,0,0,0,0,0,0,2,0}^r \rho_1^4 \rho_5^2 \cos(2\phi_5) - b_{0,2,2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_2) - \\
& b_{1,0,-1,0,-2,0,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_3) - \\
& b_{1,0,-1,0,-2,0,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(-\phi_1 + \phi_2 + 2\phi_3) - b_{1,0,-1,0,-2,1,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(- \\
& \phi_1 + \phi_2 + 2\phi_3) - b_{1,0,-1,0,0,0,-2,0,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(-\phi_1 + \phi_2 + 2\phi_4) - \\
& b_{1,0,-1,0,0,0,-2,1,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(-\phi_1 + \phi_2 + 2\phi_4) - b_{1,0,-1,0,0,0,0,0,-4,0}^r \rho_1 \rho_2 \rho_5^4 \cos(-\phi_1 + \phi_2 + \\
& 4\phi_5) - b_{1,0,-1,0,0,0,0,0,2,1}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,0,-1,0,0,0,0,1,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,0,-1,0,0,0,2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_4 - 2\phi_5) - \\
& b_{1,0,-1,0,0,0,4,0,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 - \phi_2 + 4\phi_4) - b_{1,0,-1,0,0,1,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(-\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{1,0,-1,0,0,1,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,0,-1,0,2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_3 - 2\phi_5) - \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 - \phi_2 + 2\phi_3 + 2\phi_4) - \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 - \phi_2 + 4\phi_3) - b_{1,0,-1,1,-2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(-\phi_1 + \phi_2 + \\
& 2\phi_3) - b_{1,0,-1,1,0,0,-2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(-\phi_1 + \phi_2 + 2\phi_4) - \\
& b_{1,0,-1,1,0,0,0,0,2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_5) - b_{1,0,-2,0,-1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(- \\
& \phi_1 + 2\phi_2 + \phi_3 + \phi_4 - \phi_5) - b_{1,0,-2,0,1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - 2\phi_2 + \phi_3 + \phi_4 - \\
& \phi_5) - b_{1,0,-3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(-\phi_1 + 3\phi_2 + 2\phi_5) - \\
& b_{1,0,-3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 - 3\phi_2 + 2\phi_4) - b_{1,0,-3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 - \\
& 3\phi_2 + 2\phi_3) - b_{1,0,-5,0,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 - 5\phi_2) - b_{1,0,0,0,-1,0,-1,0,-1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(- \\
& \phi_1 + \phi_3 + \phi_4 + \phi_5) - b_{1,0,0,0,-1,0,-1,1,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,0,1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,0,1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,1,-1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-1,1,1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,0,-3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 - 3\phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,0,0,1,0,-1,0,1,1}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,0,0,1,0,-1,1,1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{1,0,0,0,1,0,-3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 - 3\phi_4 - \phi_5) - \\
& b_{1,0,0,0,1,0,1,0,-3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 - 3\phi_5) - \\
& b_{1,0,0,0,1,0,1,0,3,0}^r \rho_1 \rho_3 \rho_4 \rho_5^3 \cos(\phi_1 + \phi_3 + \phi_4 + 3\phi_5) - \\
& b_{1,0,0,0,1,0,3,0,-1,0}^r \rho_1 \rho_3 \rho_4^3 \rho_5 \cos(\phi_1 + \phi_3 + 3\phi_4 - \phi_5) - \\
& b_{1,0,0,0,1,1,-1,0,1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,0,0,3,0,1,0,-1,0}^r \rho_1 \rho_3^3 \rho_4 \rho_5 \cos(\phi_1 + 3\phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,0,1,-1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,1,-1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,0,1,1,0,-1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,0,1,0,-2,0,0,0,-2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_3 - 2\phi_5) - \\
& b_{1,0,1,0,-2,0,2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 - 2\phi_3 + 2\phi_4) - \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 - 2\phi_4 - 2\phi_5) - \\
& b_{1,0,1,0,0,0,0,0,2}^r \rho_1 \rho_2 \rho_5^4 \cos(\phi_1 + \phi_2) - b_{1,0,1,0,0,0,0,1,0,1}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2) - \\
& b_{1,0,1,0,0,0,0,2,0,0}^r \rho_1 \rho_2 \rho_4^4 \cos(\phi_1 + \phi_2) - b_{1,0,1,0,0,0,2,0,2,0}^r \rho_1 \rho_2 \rho_4^2 \rho_5^2 \cos(\phi_1 + \phi_2 + \\
& 2\phi_4 + 2\phi_5) - b_{1,0,1,0,0,1,0,0,0,1}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2) - \\
& b_{1,0,1,0,0,1,0,1,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2) - b_{1,0,1,0,0,2,0,0,0,0}^r \rho_1 \rho_2 \rho_3^4 \cos(\phi_1 + \phi_2) - \\
& b_{1,0,1,0,2,0,-2,0,0,0}^r \rho_1 \rho_2 \rho_3^2 \rho_4^2 \cos(\phi_1 + \phi_2 + 2\phi_3 - 2\phi_4) - \\
& b_{1,0,1,0,2,0,0,0,2,0}^r \rho_1 \rho_2 \rho_3^2 \rho_5^2 \cos(\phi_1 + \phi_2 + 2\phi_3 + 2\phi_5) - \\
& b_{1,0,1,1,0,0,0,0,0,1}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + \phi_2) - b_{1,0,1,1,0,0,0,1,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \phi_2) - \\
& b_{1,0,1,1,0,1,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + \phi_2) - b_{1,0,1,2,0,0,0,0,0,0}^r \rho_1 \rho_2^5 \cos(\phi_1 + \phi_2) - \\
& b_{1,0,2,0,-1,0,1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{1,0,2,0,1,0,-1,0,-1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{1,0,2,0,1,0,1,0,1,0}^r \rho_1 \rho_2^2 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + 2\phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,0,3,0,0,0,0,0,-2,0}^r \rho_1 \rho_2^3 \rho_5^2 \cos(\phi_1 + 3\phi_2 - 2\phi_5) - b_{1,0,3,0,0,0,2,0,0,0}^r \rho_1 \rho_2^3 \rho_4^2 \cos(\phi_1 + \\
& 3\phi_2 + 2\phi_4) - b_{1,0,3,0,2,0,0,0,0,0}^r \rho_1 \rho_2^3 \rho_3^2 \cos(\phi_1 + 3\phi_2 + 2\phi_3) - \\
& b_{1,1,-1,0,-2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(-\phi_1 + \phi_2 + 2\phi_3) - b_{1,1,-1,0,0,0,-2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(-\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{1,1,-1,0,0,0,0,0,2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 - \phi_2 + 2\phi_5) - \\
& b_{1,1,0,0,-1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(-\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,1,0,0,-1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{1,1,0,0,1,0,-1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(\phi_1 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{1,1,1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \cos(\phi_1 + \phi_2) - b_{1,1,1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(\phi_1 + \phi_2) - \\
& b_{1,1,1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(\phi_1 + \phi_2) - b_{1,1,1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(\phi_1 + \phi_2) - \\
& b_{1,2,1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(\phi_1 + \phi_2) - b_{2,0,-1,0,-1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(-2\phi_1 + \phi_2 + \\
& \phi_3 + \phi_4 + \phi_5) - b_{2,0,-1,0,-1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 - \phi_3 + \phi_4 + \phi_5) - \\
& b_{2,0,-1,0,1,0,-1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 - \phi_2 + \phi_3 - \phi_4 + \phi_5) - \\
& b_{2,0,-2,0,-2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(-2\phi_1 + 2\phi_2 + 2\phi_3) - b_{2,0,-2,0,0,0,-2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(- \\
& 2\phi_1 + 2\phi_2 + 2\phi_4) - b_{2,0,-2,0,0,0,0,2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 - 2\phi_2 + 2\phi_5) - \\
& b_{2,0,0,0,-2,0,0,0,-2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(-2\phi_1 + 2\phi_3 + 2\phi_5) - \\
& b_{2,0,0,0,-2,0,2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 - 2\phi_3 + 2\phi_4) - b_{2,0,0,0,0,0,-2,0,-2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(- \\
& 2\phi_1 + 2\phi_4 + 2\phi_5) - b_{2,0,0,0,0,0,0,0,2}^r \rho_1^5 \cos(2\phi_1) - \\
& b_{2,0,0,0,0,0,0,1,0,1}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1) - b_{2,0,0,0,0,0,0,2,0,0}^r \rho_1^4 \cos(2\phi_1) - \\
& b_{2,0,0,0,0,0,2,0,2,0}^r \rho_1^2 \rho_4^2 \rho_5^2 \cos(2\phi_1 + 2\phi_4 + 2\phi_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{2,0,0,0,0,1,0,0,0,1}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1) - b_{2,0,0,0,0,1,0,1,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1) - \\
& b_{2,0,0,0,0,2,0,0,0,0}^r \rho_1^2 \rho_3^4 \cos(2\phi_1) - b_{2,0,0,0,2,0,-2,0,0,0}^r \rho_1^2 \rho_3^2 \rho_4^2 \cos(2\phi_1 + 2\phi_3 - 2\phi_4) - \\
& b_{2,0,0,0,2,0,0,0,2,0}^r \rho_1^2 \rho_3^2 \rho_5^2 \cos(2\phi_1 + 2\phi_3 + 2\phi_5) - \\
& b_{2,0,0,1,0,0,0,0,0,1}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1) - b_{2,0,0,1,0,0,0,1,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1) - \\
& b_{2,0,0,1,0,1,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1) - b_{2,0,0,2,0,0,0,0,0,0}^r \rho_1^2 \rho_2^4 \cos(2\phi_1) - \\
& b_{2,0,1,0,-1,0,1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{2,0,1,0,1,0,-1,0,-1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{2,0,1,0,1,0,1,0,1,0}^r \rho_1^2 \rho_2 \rho_3 \rho_4 \rho_5 \cos(2\phi_1 + \phi_2 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{2,0,2,0,0,0,0,0,-2,0}^r \rho_1^2 \rho_2^2 \rho_5^2 \cos(2\phi_1 + 2\phi_2 - 2\phi_5) - \\
& b_{2,0,2,0,0,0,2,0,0,0}^r \rho_1^2 \rho_2^2 \rho_4^2 \cos(2\phi_1 + 2\phi_2 + 2\phi_4) - \\
& b_{2,0,2,0,2,0,0,0,0,0}^r \rho_1^2 \rho_2^2 \rho_3^2 \cos(2\phi_1 + 2\phi_2 + 2\phi_3) - b_{2,1,0,0,0,0,0,0,0,1}^r \rho_1^4 \rho_5^2 \cos(2\phi_1) - \\
& b_{2,1,0,0,0,0,0,1,0,0}^r \rho_1^4 \rho_4^2 \cos(2\phi_1) - b_{2,1,0,0,0,1,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(2\phi_1) - \\
& b_{2,1,0,1,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(2\phi_1) - b_{2,2,0,0,0,0,0,0,0,0}^r \rho_1^6 \cos(2\phi_1) - \\
& b_{3,0,-1,0,0,0,0,0,0,1}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 - \phi_2) - b_{3,0,-1,0,0,0,0,1,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 - \phi_2) - \\
& b_{3,0,-1,0,0,1,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 - \phi_2) - b_{3,0,-1,1,0,0,0,0,0,0}^r \rho_1^3 \rho_2^3 \cos(3\phi_1 - \phi_2) - \\
& b_{3,0,0,0,-1,0,1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 - \phi_3 + \phi_4 - \phi_5) - \\
& b_{3,0,0,0,1,0,-1,0,-1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 - \phi_4 - \phi_5) - \\
& b_{3,0,0,0,1,0,1,0,1,0}^r \rho_1^3 \rho_3 \rho_4 \rho_5 \cos(3\phi_1 + \phi_3 + \phi_4 + \phi_5) - \\
& b_{3,0,1,0,0,0,0,0,-2,0}^r \rho_1^3 \rho_2 \rho_5^2 \cos(3\phi_1 + \phi_2 - 2\phi_5) - b_{3,0,1,0,0,0,2,0,0,0}^r \rho_1^3 \rho_2 \rho_4^2 \cos(3\phi_1 + \\
& \phi_2 + 2\phi_4) - b_{3,0,1,0,2,0,0,0,0,0}^r \rho_1^3 \rho_2 \rho_3^2 \cos(3\phi_1 + \phi_2 + 2\phi_3) - \\
& b_{3,1,-1,0,0,0,0,0,0,0}^r \rho_1^5 \rho_2 \cos(3\phi_1 - \phi_2) - b_{4,0,-2,0,0,0,0,0,0,0}^r \rho_1^4 \rho_2^2 \cos(4\phi_1 - 2\phi_2) - \\
& b_{4,0,0,0,0,0,0,0,-2,0}^r \rho_1^4 \rho_5^2 \cos(4\phi_1 - 2\phi_5) - b_{4,0,0,0,0,0,2,0,0,0}^r \rho_1^4 \rho_4^2 \cos(4\phi_1 + 2\phi_4) - \\
& b_{4,0,0,0,2,0,0,0,0,0}^r \rho_1^4 \rho_3^2 \cos(4\phi_1 + 2\phi_3)
\end{aligned}$$

### Cartesian e-coordinates:

$$\begin{aligned}
H_{XX}^{(6)} = & a_{0,0,0,0,0,0,0,0,0,3}^r (x_5^2 + y_5^2)^3 + a_{0,0,0,0,0,0,0,0,6,0}^r (x_5 - y_5)(x_5 + y_5)(x_5^2 - 4x_5y_5 + y_5^2)(x_5^2 + 4x_5y_5 + y_5^2) + \\
& a_{0,0,0,0,0,0,0,1,0,2}^r (x_4^2 + y_4^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,0,0,2,0,1}^r (x_4^2 + y_4^2)^2(x_5^2 + y_5^2) + \\
& a_{0,0,0,0,0,0,0,3,0,0}^r (x_4^2 + y_4^2)^3 + a_{0,0,0,0,0,0,2,0,-4,0}^r (x_4(x_5^2 - 2x_5y_5 - y_5^2) + y_4(x_5^2 + 2x_5y_5 - \\
& y_5^2))(x_4(x_5^2 + 2x_5y_5 - y_5^2) + y_4(-x_5^2 + 2x_5y_5 + y_5^2)) + a_{0,0,0,0,0,0,2,0,2,1}^r (x_5^2 + y_5^2)(x_4(x_5 - y_5) + y_4(- \\
& x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,0,2,1,2,0}^r (x_4^2 + y_4^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + \\
& y_4(x_5 - y_5)) + a_{0,0,0,0,0,0,4,0,-2,0}^r (x_4(-2x_5y_4 + 2y_4y_5) + x_5(x_4^2 - y_4^2) + y_5(x_4^2 - y_4^2))(x_4(2x_5y_4 + \\
& 2y_4y_5) + x_5(x_4^2 - y_4^2) + y_5(-x_4^2 + y_4^2)) + a_{0,0,0,0,0,0,6,0,0,0}^r (x_4 - y_4)(x_4 + y_4)(x_4^2 - 4x_4y_4 + y_4^2)(x_4^2 + \\
& 4x_4y_4 + y_4^2) + a_{0,0,0,0,0,1,0,0,0,2}^r (x_3^2 + y_3^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,1,0,1,0,1}^r (x_3^2 + y_3^2)(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,0,0,1,0,2,0,0}^r (x_3^2 + y_3^2)(x_4^2 + y_4^2)^2 + a_{0,0,0,0,0,1,2,0,2,0}^r (x_3^2 + y_3^2)(x_4(x_5 - y_5) + \\
& y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,2,0,0,0,1}^r (x_3^2 + y_3^2)^2(x_5^2 + y_5^2) + a_{0,0,0,0,0,2,0,1,0,0}^r (x_3^2 + \\
& y_3^2)^2(x_4^2 + y_4^2) + a_{0,0,0,0,0,3,0,0,0,0}^r (x_3^2 + y_3^2)^3 + a_{0,0,0,0,2,0,-2,0,0,1}^r (x_5^2 + y_5^2)(x_3(x_4 - y_4) + y_3(x_4 + \\
& y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,0,-2,1,0,0}^r (x_4^2 + y_4^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(- \\
& x_4 + y_4)) + a_{0,0,0,0,2,0,0,0,-4,0}^r (x_3(x_5^2 - 2x_5y_5 - y_5^2) + y_3(x_5^2 + 2x_5y_5 - y_5^2))(x_3(x_5^2 + 2x_5y_5 - y_5^2) + \\
& y_3(-x_5^2 + 2x_5y_5 + y_5^2)) + a_{0,0,0,0,2,0,0,0,2,1}^r (x_5^2 + y_5^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - \\
& y_5)) + a_{0,0,0,0,2,0,0,1,2,0}^r (x_4^2 + y_4^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + \\
& a_{0,0,0,0,2,0,2,0,-2,0}^r (x_3(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5) + y_3(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5))(x_3(x_4x_5 + x_4y_5 - \\
& x_5y_4 + y_4y_5) + y_3(-x_4x_5 + x_4y_5 - x_5y_4 - y_4y_5)) + a_{0,0,0,0,2,0,4,0,0,0}^r (x_3(x_4^2 - 2x_4y_4 - y_4^2) + y_3(-x_4^2 -
\end{aligned}$$

$$\begin{aligned}
& 2x_4y_4 + y_4^2))(x_3(x_4^2 + 2x_4y_4 - y_4^2) + y_3(x_4^2 - 2x_4y_4 - y_4^2)) + a_{0,0,0,0,2,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_3(x_4 - \\
& y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,1,0,0,2,0}^r(x_3^2 + y_3^2)(x_3(x_5 - y_5) + y_3(-x_5 - \\
& y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,0,0,0,4,0,0,0,-2,0}^r(x_3(-2x_5y_3 + 2y_3y_5) + x_5(x_3^2 - y_3^2) + y_5(x_3^2 - \\
& y_3^2))(x_3(2x_5y_3 + 2y_3y_5) + x_5(x_3^2 - y_3^2) + y_5(-x_3^2 + y_3^2)) + a_{0,0,0,0,4,0,2,0,0,0}^r(x_3(-2x_4y_3 - 2y_3y_4) + \\
& x_4(x_3^2 - y_3^2) + y_4(-x_3^2 + y_3^2))(x_3(2x_4y_3 - 2y_3y_4) + x_4(x_3^2 - y_3^2) + y_4(x_3^2 - y_3^2)) + \\
& a_{0,0,0,0,6,0,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 - 4x_3y_3 + y_3^2)(x_3^2 + 4x_3y_3 + y_3^2) + a_{0,0,0,1,0,0,0,0,0,2}^r(x_2^2 + \\
& y_2^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,1,0,0,0,1,0,1}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,1,0,0,0,2,0,0}^r(x_2^2 + \\
& y_2^2)(x_4^2 + y_4^2)^2 + a_{0,0,0,1,0,0,2,0,2,0}^r(x_2^2 + y_2^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + \\
& a_{0,0,0,1,0,1,0,0,0,1}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_5^2 + y_5^2) + a_{0,0,0,1,0,1,0,1,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_4^2 + \\
& y_4^2) + a_{0,0,0,1,0,2,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)^2 + a_{0,0,0,1,2,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_3(x_4 - y_4) + y_3(x_4 + \\
& y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,1,2,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + \\
& y_3(x_5 - y_5)) + a_{0,0,0,2,0,0,0,0,0,1}^r(x_2^2 + y_2^2)^2(x_5^2 + y_5^2) + a_{0,0,0,2,0,0,0,1,0,0}^r(x_2^2 + y_2^2)^2(x_4^2 + y_4^2) + \\
& a_{0,0,0,2,0,1,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_3^2 + y_3^2) + a_{0,0,0,3,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^3 + \\
& a_{0,0,1,0,-1,0,-1,0,-3,0}^r(x_2(x_3x_4x_5^3 - 3x_3x_4x_5y_5^2 - 3x_3x_5^2y_4y_5 + x_3y_4y_5^3 - 3x_4x_5^2y_3y_5 + \\
& x_4y_3y_5^3 - x_5^3y_3y_4 + 3x_5y_3y_4y_5^2) + y_2(3x_3x_4x_5^2y_5 - x_3x_4y_5^3 + x_3x_5^3y_4 - \\
& 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - 3x_4x_5y_3y_5^2 - 3x_5^2y_3y_4y_5 + y_3y_4y_5^3)) + \\
& a_{0,0,1,0,-1,0,-1,0,3,0}^r(x_2(x_3x_4x_5^3 - 3x_3x_4x_5y_5^2 + 3x_3x_5^2y_4y_5 - x_3y_4y_5^3 + 3x_4x_5^2y_3y_5 - \\
& x_4y_3y_5^3 - x_5^3y_3y_4 + 3x_5y_3y_4y_5^2) + y_2(-3x_3x_4x_5^2y_5 + x_3x_4y_5^3 + x_3x_5^3y_4 - \\
& 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - 3x_4x_5y_3y_5^2 + 3x_5^2y_3y_4y_5 - y_3y_4y_5^3)) + \\
& a_{0,0,1,0,-1,0,-3,0,1,0}^r(x_2(x_3x_4^3x_5 + 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 - x_3y_4^3y_5 + x_4^3y_3y_5 - \\
& 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 + x_5y_3y_4^3) + y_2(-x_3x_4^3y_5 + 3x_3x_4^2x_5y_4 + 3x_3x_4y_4^2y_5 - \\
& x_3x_5y_4^3 + x_4^3x_5y_3 + 3x_4^2x_5y_3y_4 - 3x_4x_5y_3y_4^2 - y_3y_4^3y_5)) + a_{0,0,1,0,-1,0,1,0,-1,1}^r(x_5^2 + \\
& y_5^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,1,0,-1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,-1,0,3,0,1,0}^r(x_2(x_3x_4^3x_5 - 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 + x_3y_4^3y_5 + \\
& x_4^3y_3y_5 + 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 - x_5y_3y_4^3) + y_2(-x_3x_4^3y_5 - 3x_3x_4^2x_5y_4 + \\
& 3x_3x_4y_4^2y_5 + x_3x_5y_4^3 + x_4^3x_5y_3 - 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 + y_3y_4^3y_5)) + \\
& a_{0,0,1,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,-3,0,-1,0,1,0}^r(x_2(x_3^3x_4x_5 + x_3^3y_4y_5 + 3x_3^2x_4y_3y_5 - 3x_3^2x_5y_3y_4 - \\
& 3x_3x_4x_5y_3^2 - 3x_3y_3^2y_4y_5 - x_4y_3^3y_5 + x_5y_3^3y_4) + y_2(-x_3^3x_4y_5 + x_3^3x_5y_4 + \\
& 3x_3^2x_4x_5y_3 + 3x_3^2y_3y_4y_5 + 3x_3x_4y_3^2y_5 - 3x_3x_5y_3^2y_4 - x_4x_5y_3^3 - y_3^3y_4y_5)) + \\
& a_{0,0,1,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + \\
& y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - \\
& x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,1,1,1,0}^r(x_4^2 + \\
& y_4^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,1,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,3,0,-1,0,1,0}^r(x_2(x_3^3x_4x_5 + x_3^3y_4y_5 - 3x_3^2x_4y_3y_5 + \\
& 3x_3^2x_5y_3y_4 - 3x_3x_4x_5y_3^2 - 3x_3y_3^2y_4y_5 + x_4y_3^3y_5 - x_5y_3^3y_4) + y_2(-x_3^3x_4y_5 + \\
& y_3^3y_4y_5)) + a_{0,0,1,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,1,1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + \\
& x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2(x_3x_4x_5 - \\
& x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,2,0,-2,0,-2,0,0,0}^r(x_2(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4) + y_2(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4))(x_2(x_3x_4 + x_3y_4 + \\
& x_4y_3 - y_3y_4) + y_2(-x_3x_4 + x_3y_4 + x_4y_3 + y_3y_4)) + a_{0,0,2,0,-2,0,0,0,2,0}^r(x_2(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5) + y_2(- \\
& x_3x_5 - x_3y_5 + x_5y_3 - y_3y_5))(x_2(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) + y_2(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)) + \\
& a_{0,0,2,0,-4,0,0,0,0,0}^r(x_2(x_3^2 - 2x_3y_3 - y_3^2) + y_2(x_3^2 + 2x_3y_3 - y_3^2))(x_2(x_3^2 + 2x_3y_3 - y_3^2) + y_2(-x_3^2 + \\
& 2x_3y_3 + y_3^2)) + a_{0,0,2,0,0,0,-2,0,2,0}^r(x_2(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5) + y_2(-x_4x_5 - x_4y_5 + x_5y_4 - \\
& y_4y_5))(x_2(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + y_2(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)) + a_{0,0,2,0,0,0,-4,0,0,0}^r(x_2(x_4^2 - \\
& 2x_4y_4 - y_4^2) + y_2(x_4^2 + 2x_4y_4 - y_4^2))(x_2(x_4^2 + 2x_4y_4 - y_4^2) + y_2(-x_4^2 + 2x_4y_4 + y_4^2)) + \\
& a_{0,0,2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,0,0,4,0}^r(x_2(x_5^2 - 2x_5y_5 - y_5^2) + y_2(-x_5^2 - 2x_5y_5 + y_5^2))(x_2(x_5^2 + 2x_5y_5 - y_5^2) + y_2(x_5^2 - \\
& 2x_5y_5 - y_5^2)) + a_{0,0,2,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,0,0,2,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2(x_5 - y_5) + \\
& y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,0,2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + \\
& y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + \\
& a_{0,0,2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,0,2,0,2,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,0,2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2(x_5 - y_5) + \\
& y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,0,2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + \\
& y_4) + y_2(x_4 - y_4)) + a_{0,0,2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + \\
& a_{0,0,3,0,-1,0,-1,0,1,0}^r(x_2(-3x_3x_4x_5y_2^2 - 3x_3y_2^2y_4y_5 - 3x_4y_2^2y_3y_5 + 3x_5y_2^2y_3y_4) + \\
& x_3(x_2^3x_4x_5 + x_2^3y_4y_5 + x_4y_2^3y_5 - x_5y_2^3y_4) + y_2(-3x_2^2x_3x_4y_5 + 3x_2^2x_3x_5y_4 + \\
& 3x_2^2x_4x_5y_3 + 3x_2^2y_3y_4y_5) + y_3(x_2^3x_4y_5 - x_2^3x_5y_4 - x_4x_5y_2^3 - y_2^3y_4y_5)) + \\
& a_{0,0,3,0,1,0,1,0,-1,0}^r(x_2(-3x_3x_4x_5y_2^2 - 3x_3y_2^2y_4y_5 - 3x_4y_2^2y_3y_5 + 3x_5y_2^2y_3y_4) + x_3(x_2^3x_4x_5 + \\
& x_2^3y_4y_5 - x_4y_2^3y_5 + x_5y_2^3y_4) + y_2(3x_2^2x_3x_4y_5 - 3x_2^2x_3x_5y_4 - 3x_2^2x_4x_5y_3 - \\
& 3x_2^2y_3y_4y_5) + y_3(x_2^3x_4y_5 - x_2^3x_5y_4 + x_4x_5y_2^3 + y_2^3y_4y_5)) + a_{0,0,4,0,-2,0,0,0,0,0}^r(x_2(-2x_3y_2 + \\
& 2y_2y_3) + x_3(x_2^2 - y_2^2) + y_3(x_2^2 - y_2^2))(x_2(2x_3y_2 + 2y_2y_3) + x_3(x_2^2 - y_2^2) + y_3(-x_2^2 + y_2^2)) + \\
& a_{0,0,4,0,0,0,-2,0,0,0}^r(x_2(-2x_4y_2 + 2y_2y_4) + x_4(x_2^2 - y_2^2) + y_4(x_2^2 - y_2^2))(x_2(2x_4y_2 + 2y_2y_4) + x_4(x_2^2 - \\
& y_2^2) + y_4(-x_2^2 + y_2^2)) + a_{0,0,4,0,0,0,0,0,2,0}^r(x_2(-2x_5y_2 - 2y_2y_5) + x_5(x_2^2 - y_2^2) + y_5(-x_2^2 + \\
& y_2^2))(x_2(2x_5y_2 - 2y_2y_5) + x_5(x_2^2 - y_2^2) + y_5(x_2^2 - y_2^2)) + a_{0,0,6,0,0,0,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 - \\
& 4x_2y_2 + y_2^2)(x_2^2 + 4x_2y_2 + y_2^2) + a_{0,1,0,0,0,0,0,0,0,2}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)^2 + a_{0,1,0,0,0,0,0,1,0,1}^r(x_1^2 + \\
& y_1^2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,0,0,2,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)^2 + a_{0,1,0,0,0,0,2,0,2,0}^r(x_1^2 + \\
& y_1^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,1,0,0,0,1,0,0,0,1}^r(x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,1,0,1,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + a_{0,1,0,0,0,2,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_3^2 + y_3^2)^2 + a_{0,1,0,0,2,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + \\
& a_{0,1,0,0,2,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,1,0,1,0,0,0,0,0,1}^r(x_1^2 + \\
& y_1^2)(x_2^2 + y_2^2)(x_5^2 + y_5^2) + a_{0,1,0,1,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& a_{0,1,0,1,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_3^2 + y_3^2) + a_{0,1,0,2,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)^2 + \\
& a_{0,1,1,0,-1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,1,1,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + \\
& y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,1,1,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2(x_3x_4x_5 - x_3y_4y_5 -
\end{aligned}$$



$$\begin{aligned}
& x_4 y_3 y_5 - x_5 y_3 y_4) + y_2(-x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{0,1,2,0,0,0,0,0,-2,0}^r(x_1^2 + \\
& y_1^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,1,2,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_4 - y_4) + y_2(- \\
& x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,1,2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + \\
& y_2(x_3 - y_3)) + a_{0,2,0,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)^2(x_5^2 + y_5^2) + a_{0,2,0,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)^2(x_4^2 + y_4^2) + \\
& a_{0,2,0,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_3^2 + y_3^2) + a_{0,2,0,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_2^2 + y_2^2) + \\
& a_{0,3,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^3 + a_{1,0,-1,0,-2,0,0,0,-2,0}^r(x_1(x_2 x_3^2 x_5^2 - x_2 x_3^2 y_5^2 - 4x_2 x_3 x_5 y_3 y_5 - \\
& x_2 x_5^2 y_3^2 + x_2 y_3^2 y_5^2 - 2x_3^2 x_5 y_2 y_5 - 2x_3 x_5^2 y_2 y_3 + 2x_3 y_2 y_3 y_5^2 + 2x_5 y_2 y_3^2 y_5) + \\
& y_1(2x_2 x_3^2 x_5 y_5 + 2x_2 x_3 x_5^2 y_3 - 2x_2 x_3 y_3 y_5^2 - 2x_2 x_5 y_3^2 y_5 + x_3^2 x_5^2 y_2 - x_3^2 y_2 y_5^2 - \\
& 4x_3 x_5 y_2 y_3 y_5 - x_5^2 y_2 y_3^2 + y_2 y_3^2 y_5^2)) + a_{1,0,-1,0,-2,0,2,0,0,0}^r(x_1(x_2 x_3^2 x_4^2 - x_2 x_3^2 y_4^2 + \\
& 4x_2 x_3 x_4 y_3 y_4 - x_2 x_4^2 y_3^2 + x_2 y_3^2 y_4^2 + 2x_3^2 x_4 y_2 y_4 - 2x_3 x_4^2 y_2 y_3 + 2x_3 y_2 y_3 y_4^2 - \\
& 2x_4 y_2 y_3^2 y_4) + y_1(-2x_2 x_3^2 x_4 y_4 + 2x_2 x_3 x_4^2 y_3 - 2x_2 x_3 y_3 y_4^2 + 2x_2 x_4 y_3^2 y_4 + x_3^2 x_4^2 y_2 - \\
& x_3^2 y_2 y_4^2 + 4x_3 x_4 y_2 y_3 y_4 - x_4^2 y_2 y_3^2 + y_2 y_3^2 y_4^2)) + a_{1,0,-1,0,0,0,-2,0,-2,0}^r(x_1(x_2 x_4^2 x_5^2 - \\
& x_2 x_4^2 y_5^2 - 4x_2 x_4 x_5 y_4 y_5 - x_2 x_5^2 y_4^2 + x_2 y_4^2 y_5^2 - 2x_4^2 x_5 y_2 y_5 - 2x_4 x_5^2 y_2 y_4 + \\
& 2x_4 y_2 y_4 y_5^2 + 2x_5 y_2 y_4^2 y_5) + y_1(2x_2 x_4^2 x_5 y_5 + 2x_2 x_4 x_5^2 y_4 - 2x_2 x_4 y_4 y_5^2 - \\
& 2x_2 x_5 y_4^2 y_5 + x_4^2 x_5^2 y_2 - x_4^2 y_2 y_5^2 - 4x_4 x_5 y_2 y_4 y_5 - x_5^2 y_2 y_4^2 + y_2 y_4^2 y_5^2)) + \\
& a_{1,0,-1,0,0,0,0,0,2}^r(x_5^2 + y_5^2)^2(x_1 x_2 + y_1 y_2) + a_{1,0,-1,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)(x_1 x_2 + y_1 y_2) + \\
& a_{1,0,-1,0,0,0,2,0,0}^r(x_4^2 + y_4^2)^2(x_1 x_2 + y_1 y_2) + a_{1,0,-1,0,0,0,2,0,2,0}^r(x_1(x_2 x_4^2 x_5^2 - x_2 x_4^2 y_5^2 - \\
& 4x_2 x_4 x_5 y_4 y_5 - x_2 x_5^2 y_4^2 + x_2 y_4^2 y_5^2 + 2x_4^2 x_5 y_2 y_5 + 2x_4 x_5^2 y_2 y_4 - 2x_4 y_2 y_4 y_5^2 - \\
& 2x_5 y_2 y_4^2 y_5) + y_1(-2x_2 x_4^2 x_5 y_5 - 2x_2 x_4 x_5^2 y_4 + 2x_2 x_4 y_4 y_5^2 + 2x_2 x_5 y_4^2 y_5 + x_4^2 x_5^2 y_2 - \\
& x_4^2 y_2 y_5^2 - 4x_4 x_5 y_2 y_4 y_5 - x_5^2 y_2 y_4^2 + y_2 y_4^2 y_5^2)) + a_{1,0,-1,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + \\
& y_5^2)(x_1 x_2 + y_1 y_2) + a_{1,0,-1,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1 x_2 + y_1 y_2) + a_{1,0,-1,0,0,2,0,0,0,0}^r(x_3^2 + \\
& y_3^2)^2(x_1 x_2 + y_1 y_2) + a_{1,0,-1,0,2,0,-2,0,0,0}^r(x_1(x_2 x_3^2 x_4^2 - x_2 x_3^2 y_4^2 + 4x_2 x_3 x_4 y_3 y_4 - \\
& x_2 x_4^2 y_3^2 + x_2 y_3^2 y_4^2 - 2x_3^2 x_4 y_2 y_4 + 2x_3 x_4^2 y_2 y_3 - 2x_3 y_2 y_3 y_4^2 + 2x_4 y_2 y_3^2 y_4) + \\
& y_1(2x_2 x_3^2 x_4 y_4 - 2x_2 x_3 x_4^2 y_3 + 2x_2 x_3 y_3 y_4^2 - 2x_2 x_4 y_3^2 y_4 + x_3^2 x_4^2 y_2 - x_3^2 y_2 y_4^2 + \\
& 4x_3 x_4 y_2 y_3 y_4 - x_4^2 y_2 y_3^2 + y_2 y_3^2 y_4^2)) + a_{1,0,-1,0,2,0,0,0,2,0}^r(x_1(x_2 x_3^2 x_5^2 - x_2 x_3^2 y_5^2 - \\
& 4x_2 x_3 x_5 y_3 y_5 - x_2 x_5^2 y_3^2 + x_2 y_3^2 y_5^2 + 2x_3^2 x_5 y_2 y_5 + 2x_3 x_5^2 y_2 y_3 - 2x_3 y_2 y_3 y_5^2 - \\
& 2x_5 y_2 y_3^2 y_5) + y_1(-2x_2 x_3^2 x_5 y_5 - 2x_2 x_3 x_5^2 y_3 + 2x_2 x_3 y_3 y_5^2 + 2x_2 x_5 y_3^2 y_5 + x_3^2 x_5^2 y_2 - \\
& x_3^2 y_2 y_5^2 - 4x_3 x_5 y_2 y_3 y_5 - x_5^2 y_2 y_3^2 + y_2 y_3^2 y_5^2)) + a_{1,0,-1,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + \\
& y_5^2)(x_1 x_2 + y_1 y_2) + a_{1,0,-1,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_1 x_2 + y_1 y_2) + a_{1,0,-1,1,0,1,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_3^2 + y_3^2)(x_1 x_2 + y_1 y_2) + a_{1,0,-1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1 x_2 + y_1 y_2) + \\
& a_{1,0,-2,0,-1,0,-1,0,-1,0}^r(x_1(x_2^2 x_3 x_4 x_5 - x_2^2 x_3 y_4 y_5 - x_2^2 x_4 y_3 y_5 - x_2^2 x_5 y_3 y_4 - 2x_2 x_3 x_4 y_2 y_5 - \\
& 2x_2 x_3 x_5 y_2 y_4 - 2x_2 x_4 x_5 y_2 y_3 + 2x_2 y_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2^2 + x_3 y_2^2 y_4 y_5 + x_4 y_2^2 y_3 y_5 + \\
& x_5 y_2^2 y_3 y_4) + y_1(x_2^2 x_3 x_4 y_5 + x_2^2 x_3 x_5 y_4 + x_2^2 x_4 x_5 y_3 - x_2^2 y_3 y_4 y_5 + 2x_2 x_3 x_4 x_5 y_2 - \\
& 2x_2 x_3 y_2 y_4 y_5 - 2x_2 x_4 y_2 y_3 y_5 - 2x_2 x_5 y_2 y_3 y_4 - x_3 x_4 y_2^2 y_5 - x_3 x_5 y_2^2 y_4 - x_4 x_5 y_2^2 y_3 + \\
& y_2^2 y_3 y_4 y_5)) + a_{1,0,-2,0,-1,0,1,0,1,0}^r(x_1(x_2^2 x_3 x_4 x_5 - x_2^2 x_3 y_4 y_5 + x_2^2 x_4 y_3 y_5 + x_2^2 x_5 y_3 y_4 + \\
& 2x_2 x_3 x_4 y_2 y_5 + 2x_2 x_3 x_5 y_2 y_4 - 2x_2 x_4 x_5 y_2 y_3 + 2x_2 y_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2^2 + x_3 y_2^2 y_4 y_5 - \\
& x_4 y_2^2 y_3 y_5 - x_5 y_2^2 y_3 y_4) + y_1(-x_2^2 x_3 x_4 y_5 - x_2^2 x_3 x_5 y_4 + x_2^2 x_4 x_5 y_3 - x_2^2 y_3 y_4 y_5 + \\
& 2x_2 x_3 x_4 x_5 y_2 - 2x_2 x_3 y_2 y_4 y_5 + 2x_2 x_4 y_2 y_3 y_5 + 2x_2 x_5 y_2 y_3 y_4 + x_3 x_4 y_2^2 y_5 + x_3 x_5 y_2^2 y_4 - \\
& x_4 x_5 y_2^2 y_3 + y_2^2 y_3 y_4 y_5)) + a_{1,0,-2,0,1,0,-1,0,1,0}^r(x_1(x_2^2 x_3 x_4 x_5 + x_2^2 x_3 y_4 y_5 - x_2^2 x_4 y_3 y_5 + \\
& x_2^2 x_5 y_3 y_4 + 2x_2 x_3 x_4 y_2 y_5 - 2x_2 x_3 x_5 y_2 y_4 + 2x_2 x_4 x_5 y_2 y_3 + 2x_2 y_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2^2 - \\
& x_3 y_2^2 y_4 y_5 + x_4 y_2^2 y_3 y_5 - x_5 y_2^2 y_3 y_4) + y_1(-x_2^2 x_3 x_4 y_5 + x_2^2 x_3 x_5 y_4 - x_2^2 x_4 x_5 y_3 - \\
& x_2^2 y_3 y_4 y_5 + 2x_2 x_3 x_4 x_5 y_2 + 2x_2 x_3 y_2 y_4 y_5 - 2x_2 x_4 y_2 y_3 y_5 + 2x_2 x_5 y_2 y_3 y_4 + x_3 x_4 y_2^2 y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_3x_5y_2^2y_4 + x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,-3,0,-2,0,0,0,0}^r(x_1(x_2^3x_3^2 - x_2^3y_3^2 - \\
& 6x_2^2x_3y_2y_3 - 3x_2x_3^2y_2^2 + 3x_2y_2^2y_3^2 + 2x_3y_2^2y_3) + y_1(2x_2^3x_3y_3 + 3x_2^2x_3^2y_2 - \\
& 3x_2^2y_2y_3^2 - 6x_2x_3y_2^2y_3 - x_2^3y_3^2 + y_2^3y_3^2)) + a_{1,0,-3,0,0,0,-2,0,0,0}^r(x_1(x_2^3x_4^2 - x_2^3y_4^2 - \\
& 6x_2^2x_4y_2y_4 - 3x_2x_4^2y_2^2 + 3x_2y_2^2y_4^2 + 2x_4y_2^3y_4) + y_1(2x_2^3x_4y_4 + 3x_2^2x_4^2y_2 - \\
& 3x_2^2y_2y_4^2 - 6x_2x_4y_2^2y_4 - x_4^2y_2^2 + y_2^3y_4^2)) + a_{1,0,-3,0,0,0,0,2,0}^r(x_1(x_2^3x_5^2 - x_2^3y_5^2 + \\
& 6x_2^2x_5y_2y_5 - 3x_2x_5^2y_2^2 + 3x_2y_2^2y_5^2 - 2x_5y_2^3y_5) + y_1(-2x_2^3x_5y_5 + 3x_2^2x_5^2y_2 - \\
& 3x_2^2y_2y_5^2 + 6x_2x_5y_2^2y_5 - x_5^2y_2^2 + y_2^3y_5^2)) + a_{1,0,0,0,-1,0,-1,0,-3,0}^r(x_1(x_3x_4x_5^3 - \\
& 3x_3x_4x_5y_5^2 - 3x_3x_5^2y_4y_5 + x_3y_4y_5^3 - 3x_4x_5^2y_3y_5 + x_4y_3y_5^3 - x_5^3y_3y_4 + \\
& 3x_5y_3y_4y_5^2) + y_1(3x_3x_4x_5^2y_5 - x_3x_4y_5^3 + x_3x_5^3y_4 - 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - \\
& 3x_4x_5y_3y_5^2 - 3x_5^2y_3y_4y_5 + y_3y_4y_5^3)) + a_{1,0,0,0,-1,0,-1,0,3,0}^r(x_1(x_3x_4x_5^3 - 3x_3x_4x_5y_5^2 + \\
& 3x_3x_5^2y_4y_5 - x_3y_4y_5^3 + 3x_4x_5^2y_3y_5 - x_4y_3y_5^3 - x_5^3y_3y_4 + 3x_5y_3y_4y_5^2) + y_1(- \\
& 3x_3x_4x_5^2y_5 + x_3x_4y_5^3 + x_3x_5^3y_4 - 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - 3x_4x_5y_3y_5^2 + \\
& 3x_5^2y_3y_4y_5 - y_3y_4y_5^3)) + a_{1,0,0,0,-1,0,-3,0,1,0}^r(x_1(x_3x_4^3x_5 + 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 - \\
& x_3y_4^3y_5 + x_3^3y_3y_5 - 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 + x_5y_3y_4^3) + y_1(-x_3x_4^3y_5 + \\
& 3x_3x_4^2x_5y_4 + 3x_3x_4y_4^2y_5 - x_3x_5y_4^3 + x_4^3x_5y_3 + 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 - \\
& y_3y_4^3y_5)) + a_{1,0,0,0,-1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - \\
& x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,-1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + \\
& x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,-1,0,3,0,1,0}^r(x_1(x_3x_4^3x_5 - \\
& 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 + x_3y_4^3y_5 + x_4^3y_3y_5 + 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 - \\
& x_5y_3y_4^3) + y_1(-x_3x_4^3y_5 - 3x_3x_4^2x_5y_4 + 3x_3x_4y_4^2y_5 + x_3x_5y_4^3 + x_4^3x_5y_3 - \\
& 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 + y_3y_4^3y_5)) + a_{1,0,0,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - \\
& x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,-3,0,-1,0,1,0}^r(x_1(x_3^3x_4x_5 + \\
& x_3^3y_4y_5 + 3x_3^2x_4y_3y_5 - 3x_3^2x_5y_3y_4 - 3x_3x_4x_5y_3^2 - 3x_3y_3^2y_4y_5 - x_4y_3^3y_5 + \\
& x_5y_3^3y_4) + y_1(-x_3^3x_4y_5 + x_3^3x_5y_4 + 3x_3^2x_4x_5y_3 + 3x_3^2y_3y_4y_5 + 3x_3x_4y_3^2y_5 - \\
& 3x_3x_5y_3^2y_4 - x_4x_5y_3^3 - y_3^3y_4y_5)) + a_{1,0,0,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + \\
& x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,-1,1,-1,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,0,0,0,1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(-x_3x_4y_5 - x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + \\
& x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,0,1,1,1,0,1,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,0,0,0,3,0,-1,0,1,0}^r(x_1(x_3^3x_4x_5 + x_3^3y_4y_5 - 3x_3^2x_4y_3y_5 + 3x_3^2x_5y_3y_4 - 3x_3x_4x_5y_3^2 - \\
& 3x_3y_3^2y_4y_5 + x_4y_3^3y_5 - x_5y_3^3y_4) + y_1(-x_3^3x_4y_5 + x_3^3x_5y_4 - 3x_3^2x_4x_5y_3 - \\
& 3x_3^2y_3y_4y_5 + 3x_3x_4y_3^2y_5 - 3x_3x_5y_3^2y_4 + x_4x_5y_3^3 + y_3^3y_4y_5)) + a_{1,0,0,1,-1,0,1,0,-1,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,0,0,1,1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,0,1,1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,0,1,0,-2,0,-2,0,0,0}^r(x_1(x_2x_3^2x_4^2 - x_2x_3^2y_4^2 - \\
& 4x_2x_3x_4y_3y_4 - x_2x_4^2y_3^2 + x_2y_3^2y_4^2 + 2x_3^2x_4y_2y_4 + 2x_3x_4^2y_2y_3 - 2x_3y_2y_3y_4^2 - \\
& 2x_4y_2y_3^2y_4) + y_1(2x_2x_3^2x_4y_4 + 2x_2x_3x_4^2y_3 - 2x_2x_3y_3y_4^2 - 2x_2x_4y_3^2y_4 - x_3^2x_4^2y_2 + \\
& x_3^2y_2y_4^2 + 4x_3x_4y_2y_3y_4 + x_4^2y_2y_3^2 - y_2y_3^2y_4^2)) + a_{1,0,1,0,-2,0,0,0,2,0}^r(x_1(x_2x_3^2x_5^2 -
\end{aligned}$$

$$\begin{aligned}
& x_2x_3^2y_5^2 + 4x_2x_3x_5y_3y_5 - x_2x_5^2y_3^2 + x_2y_3^2y_5^2 - 2x_3^2x_5y_2y_5 + 2x_3x_5^2y_2y_3 - \\
& 2x_3y_2y_3y_5^2 + 2x_5y_2y_3^2y_5 + y_1(-2x_2x_3^2x_5y_5 + 2x_2x_3x_5^2y_3 - 2x_2x_3y_3y_5^2 + \\
& 2x_2x_5y_3^2y_5 - x_3^2x_5^2y_2 + x_3^2y_2y_5^2 - 4x_3x_5y_2y_3y_5 + x_5^2y_2y_3^2 - y_2y_3^2y_5^2)) + \\
& a_{1,0,1,0,-4,0,0,0,0}^r(x_1(x_2x_3^4 - 6x_2x_3^2y_3^2 + x_2y_3^4 + 4x_3^3y_2y_3 - 4x_3y_2y_3^3) + y_1(4x_2x_3^3y_3 - \\
& 4x_2x_3y_3^3 - x_3^4y_2 + 6x_3^2y_2y_3^2 - y_2y_3^4)) + a_{1,0,1,0,0,0,-2,0,2,0}^r(x_1(x_2x_4^2x_5^2 - x_2x_4^2y_5^2 + \\
& 4x_2x_4x_5y_4y_5 - x_2x_5^2y_4^2 + x_2y_4^2y_5^2 - 2x_4^2x_5y_2y_5 + 2x_4x_5^2y_2y_4 - 2x_4y_2y_4y_5^2 + \\
& 2x_5y_2y_4^2y_5) + y_1(-2x_2x_4^2x_5y_5 + 2x_2x_4x_5^2y_4 - 2x_2x_4y_4y_5^2 + 2x_2x_5y_4^2y_5 - x_4^2x_5^2y_2 + \\
& x_4^2y_2y_5^2 - 4x_4x_5y_2y_4y_5 + x_5^2y_2y_4^2 - y_2y_4^2y_5^2)) + a_{1,0,1,0,0,0,-4,0,0,0}^r(x_1(x_2x_4^4 - \\
& 6x_2x_4^2y_4^2 + x_2y_4^4 + 4x_4^3y_2y_4 - 4x_4y_2y_4^3) + y_1(4x_2x_4^3y_4 - 4x_2x_4y_4^3 - x_4^4y_2 + \\
& 6x_4^2y_2y_4^2 - y_2y_4^4)) + a_{1,0,1,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - \\
& x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,0,0,4,0}^r(x_1(x_2x_5^4 - 6x_2x_5^2y_5^2 + x_2y_5^4 - 4x_5^3y_2y_5 + 4x_5y_2y_5^3) + \\
& y_1(-4x_2x_5^3y_5 + 4x_2x_5y_5^3 - x_5^4y_2 + 6x_5^2y_2y_5^2 - y_2y_5^4)) + a_{1,0,1,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,0,0,2,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,0,1,0,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,0,0,1,2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,0,2,0,0,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,0,1,0,2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,0,1,0,2,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,0,1,1,0,0,0,0,-2,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,0,1,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2x_4^2 - x_2y_4^2 - 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,0,1,1,2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2x_3^2 - x_2y_3^2 - 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + \\
& a_{1,0,2,0,-1,0,-1,0,1,0}^r(x_1(x_2^2x_3x_4x_5 + x_2^2x_3y_4y_5 + x_2^2x_4y_3y_5 - x_2^2x_5y_3y_4 - 2x_2x_3x_4y_2y_5 + \\
& 2x_2x_3x_5y_2y_4 + 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 - x_3y_2^2y_4y_5 - x_4y_2^2y_3y_5 + \\
& x_5y_2^2y_3y_4) + y_1(-x_2^2x_3x_4y_5 + x_2^2x_3x_5y_4 + x_2^2x_4x_5y_3 + x_2^2y_3y_4y_5 - 2x_2x_3x_4x_5y_2 - \\
& 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 + x_3x_4y_2^2y_5 - x_3x_5y_2^2y_4 - x_4x_5y_2^2y_3 - \\
& y_2^2y_3y_4y_5)) + a_{1,0,2,0,1,0,1,0,-1,0}^r(x_1(x_2^2x_3x_4x_5 + x_2^2x_3y_4y_5 + x_2^2x_4y_3y_5 - x_2^2x_5y_3y_4 + \\
& 2x_2x_3x_4y_2y_5 - 2x_2x_3x_5y_2y_4 - 2x_2x_4x_5y_2y_3 - 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 - x_3y_2^2y_4y_5 - \\
& x_4y_2^2y_3y_5 + x_5y_2^2y_3y_4) + y_1(x_2^2x_3x_4y_5 - x_2^2x_3x_5y_4 - x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 - \\
& 2x_2x_3x_4x_5y_2 - 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 - x_3x_4y_2^2y_5 + x_3x_5y_2^2y_4 + \\
& x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,3,0,-2,0,0,0,0,0}^r(x_1(x_2^3x_3^2 - x_3^2y_3^2 + 6x_2^2x_3y_2y_3 - \\
& 3x_2x_3^2y_2^2 + 3x_2y_2^2y_3^2 - 2x_3y_2^2y_3) + y_1(2x_2^3x_3y_3 - 3x_2^2x_3^2y_2 + 3x_2^2y_2y_3^2 - \\
& 6x_2x_3y_2^2y_3 + x_3^2y_3^2 - y_2^2y_3^2)) + a_{1,0,3,0,0,0,-2,0,0,0}^r(x_1(x_2^3x_4^2 - x_2^2y_4^2 + 6x_2^2x_4y_2y_4 - \\
& 3x_2x_4^2y_2^2 + 3x_2y_2^2y_4^2 - 2x_4y_2^2y_4) + y_1(2x_2^3x_4y_4 - 3x_2^2x_4^2y_2 + 3x_2^2y_2y_4^2 - \\
& 6x_2x_4y_2^2y_4 + x_4^2y_2^2 - y_2^2y_4^2)) + a_{1,0,3,0,0,0,0,0,2,0}^r(x_1(x_2^3x_5^2 - x_2^2y_5^2 - 6x_2^2x_5y_2y_5 - \\
& 3x_2x_5^2y_2^2 + 3x_2y_2^2y_5^2 + 2x_5y_2^2y_5) + y_1(-2x_2^3x_5y_5 - 3x_2^2x_5^2y_2 + 3x_2^2y_2y_5^2 + \\
& 6x_2x_5y_2^2y_5 + x_5^2y_2^2 - y_2^2y_5^2)) + a_{1,0,5,0,0,0,0,0,0,0}^r(x_1(x_2^5 - 10x_2^3y_2^2 + 5x_2y_2^4) + y_1(- \\
& 5x_2^4y_2 + 10x_2^2y_2^3 - y_2^5)) + a_{1,1,-1,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + \\
& a_{1,1,-1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,1,-1,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_1x_2 + \\
& y_1y_2) + a_{1,1,-1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_1x_2 + y_1y_2) + a_{1,1,0,0,-1,0,1,0,-1,0}^r(x_1^2 + \\
& y_1^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) +
\end{aligned}$$

$$\begin{aligned}
& a_{1,1,0,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,1,0,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,1,1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_2x_5^2 - x_2y_5^2 + \\
& 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,1,1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2x_4^2 - x_2y_4^2 - \\
& 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,1,1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2x_3^2 - x_2y_3^2 - \\
& 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,2,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_1x_2 + y_1y_2) + \\
& a_{2,0,-1,0,-1,0,1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 - 2x_2x_3x_5y_1y_4 + 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + \\
& 2x_3x_4x_5y_1y_2 + 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 + \\
& x_1^2x_3y_4y_5 - x_1^2x_4y_3y_5 + x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 + x_4y_1^2y_3y_5 - \\
& x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 - x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 + x_3x_4y_1^2y_5 - \\
& x_3x_5y_1^2y_4 + x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-1,0,1,0,-1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 + 2x_2x_3x_5y_1y_4 - \\
& 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 + 2x_4y_1y_2y_3y_5 + \\
& 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 - x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 + x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 + \\
& x_3y_1^2y_4y_5 - x_4y_1^2y_3y_5 - x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 - x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 - \\
& x_1^2y_3y_4y_5 + x_3x_4y_1^2y_5 + x_3x_5y_1^2y_4 - x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-1,0,1,0,1,0,1,0}^r(x_1(- \\
& 2x_2x_3x_4y_1y_5 - 2x_2x_3x_5y_1y_4 - 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + 2x_3x_4x_5y_1y_2 - \\
& 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 - 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 - x_1^2x_3y_4y_5 - \\
& x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 + x_3y_1^2y_4y_5 + x_4y_1^2y_3y_5 + x_5y_1^2y_3y_4) + \\
& y_2(x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 - x_3x_4y_1^2y_5 - x_3x_5y_1^2y_4 - \\
& x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(- \\
& x_2 + y_2)) + a_{2,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + \\
& a_{2,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,0,0,0,-2,0,-2,0,0,0}^r(x_1(x_3x_4 - x_3y_4 - x_4y_3 - \\
& y_3y_4) + y_1(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4))(x_1(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) + y_1(-x_3x_4 + x_3y_4 + x_4y_3 + \\
& y_3y_4)) + a_{2,0,0,0,-2,0,0,0,2,0}^r(x_1(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5) + y_1(-x_3x_5 - x_3y_5 + x_5y_3 - y_3y_5))(x_1(x_3x_5 + \\
& x_3y_5 - x_5y_3 + y_3y_5) + y_1(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)) + a_{2,0,0,0,-4,0,0,0,0,0}^r(x_1(x_3^2 - 2x_3y_3 - y_3^2) + \\
& y_1(x_3^2 + 2x_3y_3 - y_3^2))(x_1(x_3^2 + 2x_3y_3 - y_3^2) + y_1(-x_3^2 + 2x_3y_3 + y_3^2)) + a_{2,0,0,0,0,-2,0,2,0}^r(x_1(x_4x_5 - \\
& x_4y_5 + x_5y_4 + y_4y_5) + y_1(-x_4x_5 - x_4y_5 + x_5y_4 - y_4y_5))(x_1(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + y_1(x_4x_5 - \\
& x_4y_5 + x_5y_4 + y_4y_5)) + a_{2,0,0,0,0,-4,0,0,0}^r(x_1(x_4^2 - 2x_4y_4 - y_4^2) + y_1(x_4^2 + 2x_4y_4 - y_4^2))(x_1(x_4^2 + \\
& 2x_4y_4 - y_4^2) + y_1(-x_4^2 + 2x_4y_4 + y_4^2)) + a_{2,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + \\
& y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,0,0,0,0,0,4,0}^r(x_1(x_5^2 - 2x_5y_5 - y_5^2) + y_1(-x_5^2 - 2x_5y_5 + y_5^2))(x_1(x_5^2 + 2x_5y_5 - \\
& y_5^2) + y_1(x_5^2 - 2x_5y_5 - y_5^2)) + a_{2,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(- \\
& x_5 + y_5)) + a_{2,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + \\
& a_{2,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_4 - y_4) + y_1(- \\
& x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + \\
& y_1(x_3 - y_3)) + a_{2,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + \\
& a_{2,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + a_{2,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + \\
& y_2^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_4 - y_4) + y_1(- \\
& x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + \\
& y_1(x_3 - y_3)) + a_{2,0,1,0,-1,0,-1,0,1,0}^r(x_1(-2x_2x_3x_4y_1y_5 + 2x_2x_3x_5y_1y_4 + 2x_2x_4x_5y_1y_3 + \\
& 2x_2y_1y_3y_4y_5 - 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) +
\end{aligned}$$

$$\begin{aligned}
& x_2(x_1^2x_3x_4x_5 + x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 - \\
& x_4y_1^2y_3y_5 + x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 + x_1^2y_3y_4y_5 + \\
& x_3x_4y_1^2y_5 - x_3x_5y_1^2y_4 - x_4x_5y_1^2y_3 - y_1^2y_3y_4y_5)) + a_{2,0,1,0,1,0,1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 - \\
& 2x_2x_3x_5y_1y_4 - 2x_2x_4x_5y_1y_3 - 2x_2y_1y_3y_4y_5 - 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 - \\
& 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 + x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - \\
& x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 - x_4y_1^2y_3y_5 + x_5y_1^2y_3y_4) + y_2(x_1^2x_3x_4y_5 - x_1^2x_3x_5y_4 - \\
& x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 - x_3x_4y_1^2y_5 + x_3x_5y_1^2y_4 + x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + \\
& a_{2,0,2,0,-2,0,0,0,0,0}^r(x_1(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3) + y_1(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3))(x_1(x_2x_3 + x_2y_3 - \\
& x_3y_2 + y_2y_3) + y_1(-x_2x_3 + x_2y_3 - x_3y_2 - y_2y_3)) + a_{2,0,2,0,0,0,-2,0,0,0}^r(x_1(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4) + \\
& y_1(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4))(x_1(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + y_1(-x_2x_4 + x_2y_4 - x_4y_2 - y_2y_4)) + \\
& a_{2,0,2,0,0,0,0,0,2,0}^r(x_1(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5) + y_1(-x_2x_5 - x_2y_5 - x_5y_2 + y_2y_5))(x_1(x_2x_5 + x_2y_5 + \\
& x_5y_2 - y_2y_5) + y_1(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)) + a_{2,0,4,0,0,0,0,0,0,0}^r(x_1(x_2^2 - 2x_2y_2 - y_2^2) + y_1(-x_2^2 - \\
& 2x_2y_2 + y_2^2))(x_1(x_2^2 + 2x_2y_2 - y_2^2) + y_1(x_2^2 - 2x_2y_2 - y_2^2)) + a_{2,1,-2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2 - \\
& y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_5 - y_5) + y_1(x_5 + \\
& y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + \\
& y_1(x_4 - y_4)) + a_{2,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + \\
& a_{3,0,-1,0,0,0,0,0,-2,0}^r(x_1(-3x_2x_5^2y_1^2 + 3x_2y_1^2y_5^2 + 6x_5y_1^2y_2y_5) + x_2(x_1^3x_5^2 - x_1^3y_5^2 - \\
& 2x_5y_1^3y_5) + y_1(6x_1^2x_2x_5y_5 + 3x_1^2x_5^2y_2 - 3x_1^2y_2y_5^2) + y_2(-2x_1^3x_5y_5 - x_5^2y_1^3 + \\
& y_1^3y_5^2)) + a_{3,0,-1,0,0,0,2,0,0,0}^r(x_1(-3x_2x_4^2y_1^2 + 3x_2y_1^2y_4^2 - 6x_4y_1^2y_2y_4) + x_2(x_1^3x_4^2 - \\
& x_1^3y_4^2 + 2x_4y_1^3y_4) + y_1(-6x_1^2x_2x_4y_4 + 3x_1^2x_4^2y_2 - 3x_1^2y_2y_4^2) + y_2(2x_1^3x_4y_4 - \\
& x_4^2y_1^3 + y_1^3y_4^2)) + a_{3,0,-1,0,2,0,0,0,0,0}^r(x_1(-3x_2x_3^2y_1^2 + 3x_2y_1^2y_3^2 - 6x_3y_1^2y_2y_3) + \\
& x_2(x_1^3x_3^2 - x_1^3y_3^2 + 2x_3y_1^3y_3) + y_1(-6x_1^2x_2x_3y_3 + 3x_1^2x_3^2y_2 - 3x_1^2y_2y_3^2) + \\
& y_2(2x_1^3x_3y_3 - x_3^2y_1^3 + y_1^3y_3^2)) + a_{3,0,-3,0,0,0,0,0,0,0}^r(x_1x_2 + y_1y_2)(x_1^2x_2^2 - 3x_1^2y_2^2 + \\
& 8x_1x_2y_1y_2 - 3x_2^2y_1^2 + y_1^2y_2^2) + a_{3,0,0,0,-1,0,-1,0,1,0}^r(x_1(-3x_3x_4x_5y_1^2 - 3x_3y_1^2y_4y_5 - \\
& 3x_4y_1^2y_3y_5 + 3x_5y_1^2y_3y_4) + x_3(x_1^3x_4x_5 + x_1^3y_4y_5 + x_4y_1^3y_5 - x_5y_1^3y_4) + y_1(- \\
& 3x_1^2x_3x_4y_5 + 3x_1^2x_3x_5y_4 + 3x_1^2x_4x_5y_3 + 3x_1^2y_3y_4y_5) + y_3(x_1^3x_4y_5 - x_1^3x_5y_4 - \\
& x_4x_5y_1^3 - y_1^3y_4y_5)) + a_{3,0,0,0,1,0,1,0,-1,0}^r(x_1(-3x_3x_4x_5y_1^2 - 3x_3y_1^2y_4y_5 - 3x_4y_1^2y_3y_5 + \\
& 3x_5y_1^2y_3y_4) + x_3(x_1^3x_4x_5 + x_1^3y_4y_5 - x_4y_1^3y_5 + x_5y_1^3y_4) + y_1(3x_1^2x_3x_4y_5 - \\
& 3x_1^2x_3x_5y_4 - 3x_1^2x_4x_5y_3 - 3x_1^2y_3y_4y_5) + y_3(x_1^3x_4y_5 - x_1^3x_5y_4 + x_4x_5y_1^3 + \\
& y_1^3y_4y_5)) + a_{3,0,1,0,-2,0,0,0,0,0}^r(x_1(-3x_2x_3^2y_1^2 + 3x_2y_1^2y_3^2 - 6x_3y_1^2y_2y_3) + x_2(x_1^3x_3^2 - \\
& x_1^3y_3^2 - 2x_3y_1^3y_3) + y_1(6x_1^2x_2x_3y_3 - 3x_1^2x_3^2y_2 + 3x_1^2y_2y_3^2) + y_2(2x_1^3x_3y_3 + \\
& x_3^2y_1^3 - y_1^3y_3^2)) + a_{3,0,1,0,0,0,0,-2,0,0,0}^r(x_1(-3x_2x_4^2y_1^2 + 3x_2y_1^2y_4^2 - 6x_4y_1^2y_2y_4) + \\
& x_2(x_1^3x_4^2 - x_1^3y_4^2 - 2x_4y_1^3y_4) + y_1(6x_1^2x_2x_4y_4 - 3x_1^2x_4^2y_2 + 3x_1^2y_2y_4^2) + \\
& y_2(2x_1^3x_4y_4 + x_4^2y_1^3 - y_1^3y_4^2)) + a_{3,0,1,0,0,0,0,2,0}^r(x_1(-3x_2x_5^2y_1^2 + 3x_2y_1^2y_5^2 + \\
& 6x_5y_1^2y_2y_5) + x_2(x_1^3x_5^2 - x_1^3y_5^2 + 2x_5y_1^3y_5) + y_1(-6x_1^2x_2x_5y_5 - 3x_1^2x_5^2y_2 + \\
& 3x_1^2y_2y_5^2) + y_2(-2x_1^3x_5y_5 + x_5^2y_1^3 - y_1^3y_5^2)) + a_{3,0,3,0,0,0,0,0,0,0}^r(x_1x_2 - y_1y_2)(x_1^2x_2^2 - \\
& 3x_1^2y_2^2 - 8x_1x_2y_1y_2 - 3x_2^2y_1^2 + y_1^2y_2^2) + a_{4,0,0,0,-2,0,0,0,0,0}^r(x_1(-2x_3y_1 + 2y_1y_3) + x_3(x_1^2 - \\
& y_1^2) + y_3(x_1^2 - y_1^2))(x_1(2x_3y_1 + 2y_1y_3) + x_3(x_1^2 - y_1^2) + y_3(-x_1^2 + y_1^2)) + a_{4,0,0,0,0,0,-2,0,0,0}^r(x_1(- \\
& 2x_4y_1 + 2y_1y_4) + x_4(x_1^2 - y_1^2) + y_4(x_1^2 - y_1^2))(x_1(2x_4y_1 + 2y_1y_4) + x_4(x_1^2 - y_1^2) + y_4(-x_1^2 + \\
& y_1^2)) + a_{4,0,0,0,0,0,0,0,2,0}^r(x_1(-2x_5y_1 - 2y_1y_5) + x_5(x_1^2 - y_1^2) + y_5(-x_1^2 + y_1^2))(x_1(2x_5y_1 - 2y_1y_5) + \\
& x_5(x_1^2 - y_1^2) + y_5(x_1^2 - y_1^2)) + a_{4,0,2,0,0,0,0,0,0,0}^r(x_1(-2x_2y_1 - 2y_1y_2) + x_2(x_1^2 - y_1^2) + y_2(-x_1^2 + \\
& y_1^2))(x_1(2x_2y_1 - 2y_1y_2) + x_2(x_1^2 - y_1^2) + y_2(x_1^2 - y_1^2)) + a_{5,0,1,0,0,0,0,0,0,0}^r(-5x_1^4y_1y_2 +
\end{aligned}$$

$$\begin{aligned}
& 5x_1x_2y_1^4 + x_2(x_1^5 - 10x_1^3y_1^2) + y_2(10x_1^2y_1^3 - y_1^5) + a_{6,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 - \\
& 4x_1y_1 + y_1^2)(x_1^2 + 4x_1y_1 + y_1^2) + b_{-1,0,-1,0,-2,0,-2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - \\
& 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 - 2x_1x_3x_4^2y_2y_3 + \\
& 2x_1x_3y_2y_3y_4^2 + 2x_1x_4y_2y_3^2y_4 - 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 + \\
& 2x_2x_4y_1y_3^2y_4 - x_3^2x_4^2y_1y_2 + x_3^2y_1y_2y_4^2 + 4x_3x_4y_1y_2y_3y_4 + x_4^2y_1y_2y_3^2 - \\
& y_1y_2y_3^2y_4^2) + b_{-1,0,-1,0,-2,0,0,0,2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + 4x_1x_2x_3x_5y_3y_5 - \\
& x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 + 2x_1x_3y_2y_3y_5^2 - \\
& 2x_1x_5y_2y_3^2y_5 + 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 - 2x_2x_5y_1y_3^2y_5 - \\
& x_3^2x_5^2y_1y_2 + x_3^2y_1y_2y_5^2 - 4x_3x_5y_1y_2y_3y_5 + x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) + \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r(x_1x_2x_3^4 - 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 - 4x_1x_3^3y_2y_3 + 4x_1x_3y_2y_3^3 - \\
& 4x_2x_3^3y_1y_3 + 4x_2x_3y_1y_3^3 - x_3^4y_1y_2 + 6x_3^2y_1y_2y_3^2 - y_1y_2y_3^4) + \\
& b_{-1,0,-1,0,0,0,-2,0,2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 + 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + \\
& x_1x_2y_4^2y_5^2 + 2x_1x_4^2x_5y_2y_5 - 2x_1x_4x_5^2y_2y_4 + 2x_1x_4y_2y_4y_5^2 - 2x_1x_5y_2y_4^2y_5 + \\
& 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 - x_4^2x_5^2y_1y_2 + \\
& x_4^2y_1y_2y_5^2 - 4x_4x_5y_1y_2y_4y_5 + x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) + b_{-1,0,-1,0,0,0,-4,0,0,0}^r(x_1x_2x_4^4 - \\
& 6x_1x_2x_4^2y_4^2 + x_1x_2y_4^4 - 4x_1x_4^3y_2y_4 + 4x_1x_4y_2y_4^3 - 4x_2x_4^3y_1y_4 + 4x_2x_4y_1y_4^3 - \\
& x_4^4y_1y_2 + 6x_4^2y_1y_2y_4^2 - y_1y_2y_4^4) + b_{-1,0,-1,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - \\
& 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) + b_{-1,0,-1,0,0,0,0,0,4,0}^r(x_1x_2x_5^4 - 6x_1x_2x_5^2y_5^2 + \\
& x_1x_2y_5^4 + 4x_1x_5^3y_2y_5 - 4x_1x_5y_2y_5^3 + 4x_2x_5^3y_1y_5 - 4x_2x_5y_1y_5^3 - x_5^4y_1y_2 + \\
& 6x_5^2y_1y_2y_5^2 - y_1y_2y_5^4) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - \\
& 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) + b_{-1,0,-1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + \\
& 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) + b_{-1,0,-1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_4^2 - \\
& x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r(x_3^2 + \\
& y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) + \\
& b_{-1,0,-1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + \\
& y_1y_2y_4^2) + b_{-1,0,-1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - \\
& x_3^2y_1y_2 + y_1y_2y_3^2) + b_{-1,0,-1,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + \\
& 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) + b_{-1,0,-1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) + b_{-1,0,-1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1x_2x_5^2 - \\
& x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) + b_{-1,0,-1,1,0,0,2,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) + \\
& b_{-1,0,-1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + \\
& y_1y_2y_3^2) + b_{-1,0,-2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 + \\
& x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 + \\
& x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 + \\
& 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 + \\
& y_1y_2^2y_3y_4y_5) + b_{-1,0,-2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 + \\
& x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 - \\
& x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 - \\
& 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 +
\end{aligned}$$

$$\begin{aligned}
& y_1 y_2^2 y_3 y_4 y_5) + b_{-1,0,-2,0,1,0,1,0}^r (x_1 x_2^2 x_3 x_4 x_5 - x_1 x_2^2 x_3 y_4 y_5 - x_1 x_2^2 x_4 y_3 y_5 - \\
& x_1 x_2^2 x_5 y_3 y_4 + 2x_1 x_2 x_3 x_4 y_2 y_5 + 2x_1 x_2 x_3 x_5 y_2 y_4 + 2x_1 x_2 x_4 x_5 y_2 y_3 - 2x_1 x_2 y_2 y_3 y_4 y_5 - \\
& x_1 x_3 x_4 x_5 y_2^2 + x_1 x_3 y_2^2 y_4 y_5 + x_1 x_4 y_2^2 y_3 y_5 + x_1 x_5 y_2^2 y_3 y_4 + x_2^2 x_3 x_4 y_1 y_5 + \\
& x_2^2 x_3 x_5 y_1 y_4 + x_2^2 x_4 x_5 y_1 y_3 - x_2^2 y_1 y_3 y_4 y_5 - 2x_2 x_3 x_4 x_5 y_1 y_2 + 2x_2 x_3 y_1 y_2 y_4 y_5 + \\
& 2x_2 x_4 y_1 y_2 y_3 y_5 + 2x_2 x_5 y_1 y_2 y_3 y_4 - x_3 x_4 y_1 y_2^2 y_5 - x_3 x_5 y_1 y_2^2 y_4 - x_4 x_5 y_1 y_2^2 y_3 + \\
& y_1 y_2^2 y_3 y_4 y_5) + b_{-1,0,-3,0,0,0,0,0}^r (x_5^2 + y_5^2)(x_1 x_2^3 - 3x_1 x_2 y_2^2 - 3x_2^2 y_1 y_2 + y_1 y_2^3) + \\
& b_{-1,0,-3,0,0,0,1,0}^r (x_4^2 + y_4^2)(x_1 x_2^3 - 3x_1 x_2 y_2^2 - 3x_2^2 y_1 y_2 + y_1 y_2^3) + b_{-1,0,-3,0,0,1,0,0}^r (x_3^2 + \\
& y_3^2)(x_1 x_2^3 - 3x_1 x_2 y_2^2 - 3x_2^2 y_1 y_2 + y_1 y_2^3) + b_{-1,0,-3,1,0,0,0,0}^r (x_2^2 + y_2^2)(x_1 x_2^3 - \\
& 3x_1 x_2 y_2^2 - 3x_2^2 y_1 y_2 + y_1 y_2^3) + b_{-1,0,0,0,-1,0,-1,0,1}^r (x_5^2 + y_5^2)(x_1 x_3 x_4 x_5 + x_1 x_3 y_4 y_5 + \\
& x_1 x_4 y_3 y_5 - x_1 x_5 y_3 y_4 + x_3 x_4 y_1 y_5 - x_3 x_5 y_1 y_4 - x_4 x_5 y_1 y_3 - y_1 y_3 y_4 y_5) + \\
& b_{-1,0,0,0,-1,0,-1,1,1,0}^r (x_4^2 + y_4^2)(x_1 x_3 x_4 x_5 + x_1 x_3 y_4 y_5 + x_1 x_4 y_3 y_5 - x_1 x_5 y_3 y_4 + x_3 x_4 y_1 y_5 - \\
& x_3 x_5 y_1 y_4 - x_4 x_5 y_1 y_3 - y_1 y_3 y_4 y_5) + b_{-1,0,0,0,-1,0,-3,0,-1,0}^r (x_1 x_3 x_4^3 x_5 - 3x_1 x_3 x_4^2 y_4 y_5 - \\
& 3x_1 x_3 x_4 x_5 y_4^2 + x_1 x_3 y_4^3 y_5 - x_1 x_4^3 y_3 y_5 - 3x_1 x_4^2 x_5 y_3 y_4 + 3x_1 x_4 y_3 y_4^2 y_5 + \\
& x_1 x_5 y_3 y_4^3 - x_3 x_4^3 y_1 y_5 - 3x_3 x_4^2 x_5 y_1 y_4 + 3x_3 x_4 y_1 y_4^2 y_5 + x_3 x_5 y_1 y_4^3 - x_4^3 x_5 y_1 y_3 + \\
& 3x_4^2 y_1 y_3 y_4 y_5 + 3x_4 x_5 y_1 y_3 y_4^2 - y_1 y_3 y_4^3 y_5) + b_{-1,0,0,0,-1,0,1,0,-3,0}^r (x_1 x_3 x_4 x_5^3 - \\
& 3x_1 x_3 x_4 x_5 y_5^2 + 3x_1 x_3 x_5^2 y_4 y_5 - x_1 x_3 y_4 y_5^3 + \\
& x_1 x_5^3 y_3 y_4 - 3x_1 x_5 y_3 y_4 y_5^2 - 3x_3 x_4 x_5^2 y_1 y_5 + x_3 x_4 y_1 y_5^3 + x_3 x_5^3 y_1 y_4 - \\
& 3x_3 x_5 y_1 y_4 y_5^2 - x_4 x_5^3 y_1 y_3 + 3x_4 x_5 y_1 y_3 y_5^2 - 3x_5^2 y_1 y_3 y_4 y_5 + y_1 y_3 y_4 y_5^3) + \\
& b_{-1,0,0,0,-1,0,1,0,3,0}^r (x_1 x_3 x_4 x_5^3 - 3x_1 x_3 x_4 x_5 y_5^2 - 3x_1 x_3 x_5^2 y_4 y_5 + x_1 x_3 y_4 y_5^3 + \\
& 3x_1 x_4 x_5^2 y_3 y_5 - x_1 x_4 y_3 y_5^3 + x_1 x_5^3 y_3 y_4 - 3x_1 x_5 y_3 y_4 y_5^2 + 3x_3 x_4 x_5^2 y_1 y_5 - \\
& x_3 x_4 y_1 y_5^3 + x_3 x_5^3 y_1 y_4 - 3x_3 x_5 y_1 y_4 y_5^2 - x_4 x_5^3 y_1 y_3 + 3x_4 x_5 y_1 y_3 y_5^2 + \\
& 3x_5^2 y_1 y_3 y_4 y_5 - y_1 y_3 y_4 y_5^3) + b_{-1,0,0,0,-1,0,3,0,-1,0}^r (x_1 x_3 x_4^3 x_5 + 3x_1 x_3 x_4^2 y_4 y_5 - \\
& 3x_1 x_3 x_4 x_5 y_4^2 - x_1 x_3 y_4^3 y_5 - x_1 x_4^3 y_3 y_5 + 3x_1 x_4^2 x_5 y_3 y_4 + 3x_1 x_4 y_3 y_4^2 y_5 - \\
& x_1 x_5 y_3 y_4^3 - x_3 x_4^3 y_1 y_5 + 3x_3 x_4^2 x_5 y_1 y_4 + 3x_3 x_4 y_1 y_4^2 y_5 - x_3 x_5 y_1 y_4^3 - x_4^3 x_5 y_1 y_3 - \\
& 3x_4^2 y_1 y_3 y_4 y_5 + 3x_4 x_5 y_1 y_3 y_4^2 + y_1 y_3 y_4^3 y_5) + b_{-1,0,0,0,-1,1,-1,0,1,0}^r (x_3^2 + y_3^2)(x_1 x_3 x_4 x_5 + \\
& x_1 x_3 y_4 y_5 + x_1 x_4 y_3 y_5 - x_1 x_5 y_3 y_4 + x_3 x_4 y_1 y_5 - x_3 x_5 y_1 y_4 - x_4 x_5 y_1 y_3 - y_1 y_3 y_4 y_5) + \\
& b_{-1,0,0,0,-3,0,-1,0,-1,0}^r (x_1 x_3^3 x_4 x_5 - x_1 x_3^3 y_4 y_5 - 3x_1 x_3^2 x_4 y_3 y_5 - 3x_1 x_3^2 x_5 y_3 y_4 - \\
& 3x_1 x_3 x_4 x_5 y_3^2 + 3x_1 x_3 y_3^2 y_4 y_5 + x_1 x_4 y_3^3 y_5 + x_1 x_5 y_3^3 y_4 - x_3^3 x_4 y_1 y_5 - x_3^3 x_5 y_1 y_4 - \\
& 3x_3^2 x_4 x_5 y_1 y_3 + 3x_3^2 y_1 y_3 y_4 y_5 + 3x_3 x_4 y_1 y_3^2 y_5 + 3x_3 x_5 y_1 y_3^2 y_4 + x_4 x_5 y_1 y_3^3 - \\
& y_1 y_3^3 y_4 y_5) + b_{-1,0,0,0,-3,0,1,0,1,0}^r (x_1 x_3^3 x_4 x_5 - x_1 x_3^3 y_4 y_5 + 3x_1 x_3^2 x_4 y_3 y_5 + 3x_1 x_3^2 x_5 y_3 y_4 - \\
& 3x_1 x_3 x_4 x_5 y_3^2 + 3x_1 x_3 y_3^2 y_4 y_5 - x_1 x_4 y_3^3 y_5 - x_1 x_5 y_3^3 y_4 + x_3^3 x_4 y_1 y_5 + x_3^3 x_5 y_1 y_4 - \\
& 3x_3^2 x_4 x_5 y_1 y_3 + 3x_3^2 y_1 y_3 y_4 y_5 - 3x_3 x_4 y_1 y_3^2 y_5 - 3x_3 x_5 y_1 y_3^2 y_4 + x_4 x_5 y_1 y_3^3 - \\
& y_1 y_3^3 y_4 y_5) + b_{-1,0,0,0,1,0,-1,0,-3,0}^r (x_1 x_3 x_4 x_5^3 - 3x_1 x_3 x_4 x_5 y_5^2 - 3x_1 x_3 x_5^2 y_4 y_5 + x_1 x_3 y_4 y_5^3 + \\
& 3x_1 x_4 x_5^2 y_3 y_5 - x_1 x_4 y_3 y_5^3 + x_1 x_5^3 y_3 y_4 - 3x_1 x_5 y_3 y_4 y_5^2 - 3x_3 x_4 x_5^2 y_1 y_5 + \\
& x_3 x_4 y_1 y_5^3 - x_3 x_5^3 y_1 y_4 + 3x_3 x_5 y_1 y_4 y_5^2 + x_4 x_5^3 y_1 y_3 - 3x_4 x_5 y_1 y_3 y_5^2 - \\
& 3x_5^2 y_1 y_3 y_4 y_5 + y_1 y_3 y_4 y_5^3) + b_{-1,0,0,0,1,0,-1,0,3,0}^r (x_1 x_3 x_4 x_5^3 - 3x_1 x_3 x_4 x_5 y_5^2 + \\
& 3x_1 x_3 x_5^2 y_4 y_5 - x_1 x_3 y_4 y_5^3 - 3x_1 x_4 x_5^2 y_3 y_5 + x_1 x_4 y_3 y_5^3 + x_1 x_5^3 y_3 y_4 - \\
& 3x_1 x_5 y_3 y_4 y_5^2 + 3x_3 x_4 x_5^2 y_1 y_5 - x_3 x_4 y_1 y_5^3 - x_3 x_5^3 y_1 y_4 + 3x_3 x_5 y_1 y_4 y_5^2 + \\
& x_4 x_5^3 y_1 y_3 - 3x_4 x_5 y_1 y_3 y_5^2 + 3x_5^2 y_1 y_3 y_4 y_5 - y_1 y_3 y_4 y_5^3) + b_{-1,0,0,0,1,0,-3,0,1,0}^r (x_1 x_3 x_4^3 x_5 + \\
& 3x_1 x_3 x_4^2 y_4 y_5 - 3x_1 x_3 x_4 x_5 y_4^2 - x_1 x_3 y_4^3 y_5 - x_1 x_4^3 y_3 y_5 + 3x_1 x_4^2 x_5 y_3 y_4 + \\
& 3x_1 x_4 y_3 y_4^2 y_5 - x_1 x_5 y_3 y_4^3 + x_3 x_4^3 y_1 y_5 - 3x_3 x_4^2 x_5 y_1 y_4 - 3x_3 x_4 y_1 y_4^2 y_5 + \\
& x_3 x_5 y_1 y_4^3 + x_4^3 x_5 y_1 y_3 + 3x_4^2 y_1 y_3 y_4 y_5 - 3x_4 x_5 y_1 y_3 y_4^2 - y_1 y_3 y_4^3 y_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) + b_{-1,0,0,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) + \\
& b_{-1,0,0,0,1,0,3,0,1,0}^r(x_1x_3x_4^3x_5 - 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 + x_1x_3y_4^3y_5 - x_1x_4^3y_3y_5 - \\
& 3x_1x_4^2x_5y_3y_4 + 3x_1x_4y_3y_4^2y_5 + x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 + 3x_3x_4^2x_5y_1y_4 - \\
& 3x_3x_4y_1y_4^2y_5 - x_3x_5y_1y_4^3 + x_4^3x_5y_1y_3 - 3x_4^2y_1y_3y_4y_5 - 3x_4x_5y_1y_3y_4^2 + \\
& y_1y_3y_4^3y_5) + b_{-1,0,0,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) + b_{-1,0,0,0,3,0,-1,0,-1,0}^r(x_1x_3^3x_4x_5 - x_1x_3^3y_4y_5 + \\
& 3x_1x_3^2x_4y_3y_5 + 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 - x_1x_4y_3^3y_5 - \\
& x_1x_5y_3^3y_4 - x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 + 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 + \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 + y_1y_3^3y_4y_5) + b_{-1,0,0,0,3,0,1,0,1,0}^r(x_1x_3^3x_4x_5 - \\
& x_1x_3^3y_4y_5 - 3x_1x_3^2x_4y_3y_5 - 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 + \\
& x_1x_4y_3^3y_5 + x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 + x_3^3x_5y_1y_4 + 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 - 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 + y_1y_3^3y_4y_5) + b_{-1,0,0,1,-1,0,-1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) + b_{-1,0,0,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) + b_{-1,0,1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_3^2 - \\
& x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) + b_{-1,0,1,0,-2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) + \\
& b_{-1,0,1,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - \\
& y_1y_2y_3^2) + b_{-1,0,1,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + \\
& x_4^2y_1y_2 - y_1y_2y_4^2) + b_{-1,0,1,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - \\
& 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) + b_{-1,0,1,0,0,0,0,0,-4,0}^r(x_1x_2x_5^4 - 6x_1x_2x_5^2y_5^2 + x_1x_2y_5^4 + \\
& 4x_1x_5^3y_2y_5 - 4x_1x_5y_2y_5^3 - 4x_2x_5^3y_1y_5 + 4x_2x_5y_1y_5^3 + x_5^4y_1y_2 - 6x_5^2y_1y_2y_5^2 + \\
& y_1y_2y_5^4) + b_{-1,0,1,0,0,0,0,0,2,1}^r(x_5^2 + y_5^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) + b_{-1,0,1,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + \\
& 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) + b_{-1,0,1,0,0,0,2,0,-2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 + \\
& 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + x_1x_2y_4^2y_5^2 + 2x_1x_4^2x_5y_2y_5 - 2x_1x_4x_5^2y_2y_4 + \\
& 2x_1x_4y_2y_4y_5^2 - 2x_1x_5y_2y_4^2y_5 - 2x_2x_4^2x_5y_1y_5 + 2x_2x_4x_5^2y_1y_4 - 2x_2x_4y_1y_4y_5^2 + \\
& 2x_2x_5y_1y_4^2y_5 + x_4^2x_5^2y_1y_2 - x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 - x_5^2y_1y_2y_4^2 + \\
& y_1y_2y_4^2y_5^2) + b_{-1,0,1,0,0,0,4,0,0,0}^r(x_1x_2x_4^4 - 6x_1x_2x_4^2y_4^2 + x_1x_2y_4^4 - 4x_1x_4^3y_2y_4 + \\
& 4x_1x_4y_2y_4^3 + 4x_2x_4^3y_1y_4 - 4x_2x_4y_1y_4^3 + x_4^4y_1y_2 - 6x_4^2y_1y_2y_4^2 + y_1y_2y_4^4) + \\
& b_{-1,0,1,0,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + x_4^2y_1y_2 - \\
& y_1y_2y_4^2) + b_{-1,0,1,0,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) + b_{-1,0,1,0,0,2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + 4x_1x_2x_3x_5y_3y_5 - \\
& x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 + 2x_1x_3y_2y_3y_5^2 - \\
& 2x_1x_5y_2y_3^2y_5 - 2x_2x_3^2x_5y_1y_5 + 2x_2x_3x_5^2y_1y_3 - 2x_2x_3y_1y_3y_5^2 + 2x_2x_5y_1y_3^2y_5 + \\
& x_3^2x_5^2y_1y_2 - x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 - x_5^2y_1y_2y_3^2 + y_1y_2y_3^2y_5^2) + \\
& b_{-1,0,1,0,2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + \\
& x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 - 2x_1x_3x_4^2y_2y_3 + 2x_1x_3y_2y_3y_4^2 + 2x_1x_4y_2y_3^2y_4 + \\
& 2x_2x_3^2x_4y_1y_4 + 2x_2x_3x_4^2y_1y_3 - 2x_2x_3y_1y_3y_4^2 - 2x_2x_4y_1y_3^2y_4 + x_3^2x_4^2y_1y_2 - \\
& x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 - x_4^2y_1y_2y_3^2 + y_1y_2y_3^2y_4^2) + b_{-1,0,1,0,4,0,0,0,0,0}^r(x_1x_2x_3^4 -
\end{aligned}$$



$$\begin{aligned}
& 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 - 4x_1x_3^3y_2y_3 + 4x_1x_3y_2y_3^3 + 4x_2x_3^3y_1y_3 - 4x_2x_3y_1y_3^3 + \\
& x_3^4y_1y_2 - 6x_3^2y_1y_2y_3^2 + y_1y_2y_3^4) + b_{-1,0,1,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) + b_{-1,0,1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_4^2 - \\
& x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) + b_{-1,0,1,1,0,0,0,0,2,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) + \\
& b_{-1,0,2,0,-1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 + \\
& 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + \\
& x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 - \\
& x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 - \\
& 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) + \\
& b_{-1,0,2,0,-1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - \\
& 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + \\
& x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 - \\
& x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 + \\
& 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) + \\
& b_{-1,0,2,0,1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - \\
& 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - \\
& x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 + \\
& x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 + \\
& 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) + \\
& b_{-1,0,3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) + b_{-1,0,3,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) + b_{-1,0,3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2^3 - 3x_1x_2y_2^2 + \\
& 3x_2^2y_1y_2 - y_1y_2^3) + b_{-1,0,3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) + \\
& b_{-1,1,-1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + \\
& y_1y_2y_5^2) + b_{-1,1,-1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - \\
& x_4^2y_1y_2 + y_1y_2y_4^2) + b_{-1,1,-1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + \\
& 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) + b_{-1,1,-3,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2^3 - 3x_1x_2y_2^2 - \\
& 3x_2^2y_1y_2 + y_1y_2^3) + b_{-1,1,0,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - \\
& x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + b_{-1,1,0,0,1,0,1,0,-1,0}^r(x_1^2 + \\
& y_1^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + \\
& y_1y_3y_4y_5) + b_{-1,1,1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + \\
& x_3^2y_1y_2 - y_1y_2y_3^2) + b_{-1,1,1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - \\
& 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) + b_{-1,1,1,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - \\
& 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) + b_{-1,1,3,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2^3 - \\
& 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) + b_{-2,0,-1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 - \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 + y_1^2y_2y_3y_4y_5) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 - \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 -
\end{aligned}$$

$$\begin{aligned}
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 + y_1^2y_2y_3y_4y_5) + b_{-2,0,-1,0,1,0,1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 - x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 - \\
& x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 + y_1^2y_2y_3y_4y_5) + b_{-2,0,-2,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + \\
& x_1y_2 + x_2y_1 - y_1y_2) + b_{-2,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - \\
& y_1y_2) + b_{-2,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - y_1y_2) + \\
& b_{-2,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - y_1y_2) + \\
& b_{-2,0,0,0,-2,0,-2,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 - x_1x_4y_3 - x_1y_3y_4 - x_3x_4y_1 - x_3y_1y_4 - x_4y_1y_3 + \\
& y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 + x_1x_4y_3 - x_1y_3y_4 + x_3x_4y_1 - x_3y_1y_4 - x_4y_1y_3 - y_1y_3y_4) + \\
& b_{-2,0,0,0,-2,0,0,0,2,0}^r(x_1x_3x_5 - x_1x_3y_5 + x_1x_5y_3 + x_1y_3y_5 + x_3x_5y_1 + x_3y_1y_5 - x_5y_1y_3 + \\
& y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 - x_1x_5y_3 + x_1y_3y_5 - x_3x_5y_1 + x_3y_1y_5 - x_5y_1y_3 - y_1y_3y_5) + \\
& b_{-2,0,0,0,-4,0,0,0,0,0}^r(x_1x_3^2 - 2x_1x_3y_3 - x_1y_3^2 - x_3^2y_1 - 2x_3y_1y_3 + y_1y_3^2)(x_1x_3^2 + 2x_1x_3y_3 - \\
& x_1y_3^2 + x_3^2y_1 - 2x_3y_1y_3 - y_1y_3^2) + b_{-2,0,0,0,0,0,-2,0,2,0}^r(x_1x_4x_5 - x_1x_4y_5 + x_1x_5y_4 + x_1y_4y_5 + \\
& x_4x_5y_1 + x_4y_1y_5 - x_5y_1y_4 + y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 - x_1x_5y_4 + x_1y_4y_5 - x_4x_5y_1 + \\
& x_4y_1y_5 - x_5y_1y_4 - y_1y_4y_5) + b_{-2,0,0,0,0,0,-4,0,0,0}^r(x_1x_4^2 - 2x_1x_4y_4 - x_1y_4^2 - x_4^2y_1 - 2x_4y_1y_4 + \\
& y_1y_4^2)(x_1x_4^2 + 2x_1x_4y_4 - x_1y_4^2 + x_4^2y_1 - 2x_4y_1y_4 - y_1y_4^2) + b_{-2,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + x_1y_5 + x_5y_1 - y_1y_5) + b_{-2,0,0,0,0,0,0,0,4,0}^r(x_1x_5^2 - 2x_1x_5y_5 - \\
& x_1y_5^2 + x_5^2y_1 + 2x_5y_1y_5 - y_1y_5^2)(x_1x_5^2 + 2x_1x_5y_5 - x_1y_5^2 - x_5^2y_1 + 2x_5y_1y_5 + y_1y_5^2) + \\
& b_{-2,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + x_1y_5 + x_5y_1 - y_1y_5) + \\
& b_{-2,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_4 - x_1y_4 + x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + y_1y_4) + \\
& b_{-2,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_4 - x_1y_4 + x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + y_1y_4) + \\
& b_{-2,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + x_1y_5 + x_5y_1 - y_1y_5) + \\
& b_{-2,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_4 - x_1y_4 + x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + y_1y_4) + \\
& b_{-2,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) + \\
& b_{-2,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) + \\
& b_{-2,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) + \\
& b_{-2,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + x_1y_5 + x_5y_1 - y_1y_5) + \\
& b_{-2,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_4 - x_1y_4 + x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + y_1y_4) + \\
& b_{-2,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) + \\
& b_{-2,0,1,0,-1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 + x_1^2x_2x_4y_3y_5 - x_1^2x_2x_5y_3y_4 - \\
& x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 - \\
& 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + 2x_1x_3x_4x_5y_1y_2 + \\
& 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - x_2x_3y_1^2y_4y_5 - \\
& x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 - x_4x_5y_1^2y_2y_3 - \\
& y_1^2y_2y_3y_4y_5) + b_{-2,0,1,0,1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 + x_1^2x_2x_4y_3y_5 - \\
& x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 - x_1^2y_2y_3y_4y_5 - \\
& 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 + \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 +
\end{aligned}$$

$$\begin{aligned}
& x_4x_5y_1^2y_2y_3 + y_1^2y_2y_3y_4y_5) + b_{-2,0,2,0,-2,0,0,0,0}^r(x_1x_2x_3 - x_1x_2y_3 + x_1x_3y_2 + x_1y_2y_3 - \\
& x_2x_3y_1 - x_2y_1y_3 + x_3y_1y_2 - y_1y_2y_3)(x_1x_2x_3 + x_1x_2y_3 - x_1x_3y_2 + x_1y_2y_3 + x_2x_3y_1 - \\
& x_2y_1y_3 + x_3y_1y_2 + y_1y_2y_3) + b_{-2,0,2,0,0,0,-2,0,0}^r(x_1x_2x_4 - x_1x_2y_4 + x_1x_4y_2 + x_1y_2y_4 - x_2x_4y_1 - \\
& x_2y_1y_4 + x_4y_1y_2 - y_1y_2y_4)(x_1x_2x_4 + x_1x_2y_4 - x_1x_4y_2 + x_1y_2y_4 + x_2x_4y_1 - x_2y_1y_4 + \\
& x_4y_1y_2 + y_1y_2y_4) + b_{-2,0,2,0,0,0,0,2,0}^r(x_1x_2x_5 - x_1x_2y_5 - x_1x_5y_2 - x_1y_2y_5 + x_2x_5y_1 + x_2y_1y_5 + \\
& x_5y_1y_2 - y_1y_2y_5)(x_1x_2x_5 + x_1x_2y_5 + x_1x_5y_2 - x_1y_2y_5 - x_2x_5y_1 + x_2y_1y_5 + x_5y_1y_2 + \\
& y_1y_2y_5) + b_{-2,0,4,0,0,0,0,0,0}^r(x_1x_2^2 - 2x_1x_2y_2 - x_1y_2^2 + x_2^2y_1 + 2x_2y_1y_2 - y_1y_2^2)(x_1x_2^2 + \\
& 2x_1x_2y_2 - x_1y_2^2 - x_2^2y_1 + 2x_2y_1y_2 + y_1y_2^2) + b_{-2,1,-2,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2 - x_1y_2 - x_2y_1 - \\
& y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - y_1y_2) + b_{-2,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + \\
& x_1y_5 + x_5y_1 - y_1y_5) + b_{-2,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_4 - x_1y_4 + x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + \\
& y_1y_4) + b_{-2,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) + b_{-3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) + b_{-3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1^3x_2 - \\
& 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) + b_{-3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + \\
& y_1^3y_2) + b_{-3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4x_5 + x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 + x_1^3x_5y_3y_4 - \\
& 3x_1^2x_3x_4y_1y_5 + 3x_1^2x_3x_5y_1y_4 - 3x_1^2x_4x_5y_1y_3 - 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 - \\
& 3x_1x_3y_1^2y_4y_5 + 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 + x_3x_4y_1^3y_5 - x_3x_5y_1^3y_4 + \\
& x_4x_5y_1^3y_3 + y_1^3y_3y_4y_5) + b_{-3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 + x_1^3x_4y_3y_5 + \\
& x_1^3x_5y_3y_4 - 3x_1^2x_3x_4y_1y_5 - 3x_1^2x_3x_5y_1y_4 + 3x_1^2x_4x_5y_1y_3 - 3x_1^2y_1y_3y_4y_5 - \\
& 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 - 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 + x_3x_4y_1^3y_5 + \\
& x_3x_5y_1^3y_4 - x_4x_5y_1^3y_3 + y_1^3y_3y_4y_5) + b_{-3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 - \\
& x_1^3x_4y_3y_5 - x_1^3x_5y_3y_4 + 3x_1^2x_3x_4y_1y_5 + 3x_1^2x_3x_5y_1y_4 + 3x_1^2x_4x_5y_1y_3 - \\
& 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 + 3x_1x_4y_1^2y_3y_5 + 3x_1x_5y_1^2y_3y_4 - \\
& x_3x_4y_1^3y_5 - x_3x_5y_1^3y_4 - x_4x_5y_1^3y_3 + y_1^3y_3y_4y_5) + b_{-3,0,1,0,0,0,0,0,-2,0}^r(x_1^3x_2x_5^2 - \\
& x_1^3x_2y_5^2 + 2x_1^3x_5y_2y_5 - 6x_1^2x_2x_5y_1y_5 + 3x_1^2x_5^2y_1y_2 - 3x_1^2y_1y_2y_5^2 - \\
& 3x_1x_2x_5^2y_1^2 + 3x_1x_2y_1^2y_5^2 - 6x_1x_5y_1^2y_2y_5 + 2x_2x_5y_1^3y_5 - x_5^2y_1^3y_2 + y_1^3y_2y_5^2) + \\
& b_{-3,0,1,0,0,0,2,0,0,0}^r(x_1^3x_2x_4^2 - x_1^3x_2y_4^2 - 2x_1^3x_4y_2y_4 + 6x_1^2x_2x_4y_1y_4 + 3x_1^2x_4^2y_1y_2 - \\
& 3x_1^2y_1y_2y_4^2 - 3x_1x_2x_4^2y_1^2 + 3x_1x_2y_1^2y_4^2 + 6x_1x_4y_1^2y_2y_4 - 2x_2x_4y_1^3y_4 - \\
& x_4^2y_1^3y_2 + y_1^3y_2y_4^2) + b_{-3,0,1,0,2,0,0,0,0,0}^r(x_1^3x_2x_3^2 - x_1^3x_2y_3^2 - 2x_1^3x_3y_2y_3 + \\
& 6x_1^2x_2x_3y_1y_3 + 3x_1^2x_2^2y_1y_2 - 3x_1^2y_1y_2y_3^2 - 3x_1x_2x_3^2y_1^2 + 3x_1x_2y_1^2y_3^2 + \\
& 6x_1x_3y_1^2y_2y_3 - 2x_2x_3y_1^3y_3 - x_3^2y_1^3y_2 + y_1^3y_2y_3^2) + b_{-3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_1^3x_2 - 3x_1^2y_1y_2 - 3x_1x_2y_1^2 + y_1^3y_2) + b_{-4,0,0,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^2 - 2x_1y_1 - \\
& y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + b_{-4,0,0,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + \\
& b_{-4,0,0,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + b_{-4,0,0,1,0,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + 2x_1y_1 - y_1^2) + b_{-4,1,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^2 - 2x_1y_1 - y_1^2)(x_1^2 + \\
& 2x_1y_1 - y_1^2) + b_{-5,0,1,0,0,0,0,0,0,0}^r(x_1^5x_2 + 5x_4^3y_1y_2 - 10x_1^3x_2y_1^2 - 10x_1^2y_1^3y_2 + 5x_1x_2y_1^4 + \\
& y_1^5y_2) + b_{0,0,-1,0,-1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + \\
& x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + b_{0,0,-1,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r(x_2x_3x_4^3x_5 - 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 + x_2x_3y_4^3y_5 - x_2x_4^3y_3y_5 - \\
& 3x_2x_4^2x_5y_3y_4 + 3x_2x_4y_3y_4^2y_5 + x_2x_5y_3y_4^3 - x_3x_4^3y_2y_5 - 3x_3x_4^2x_5y_2y_4 + \\
& 3x_3x_4y_2y_4^2y_5 + x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 + 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 -
\end{aligned}$$

$$\begin{aligned}
& y_2 y_3 y_4^3 y_5) + b_{0,0,-1,0,-1,0,1,0,-3,0}^r (x_2 x_3 x_4 x_5^3 - 3x_2 x_3 x_4 x_5 y_5^2 + 3x_2 x_3 x_5^2 y_4 y_5 - x_2 x_3 y_4 y_5^3 - \\
& 3x_2 x_4 x_5^2 y_3 y_5 + x_2 x_4 y_3 y_5^3 + x_2 x_5^3 y_3 y_4 - 3x_2 x_5 y_3 y_4 y_5^2 - 3x_3 x_4 x_5^2 y_2 y_5 + \\
& 3x_3 x_4 y_2 y_5^3 + x_3 x_5^3 y_2 y_4 - 3x_3 x_5 y_2 y_4 y_5^2 - x_4 x_5^3 y_2 y_3 + 3x_4 x_5 y_2 y_3 y_5^2 - \\
& 3x_5^2 y_2 y_3 y_4 y_5 + y_2 y_3 y_4 y_5^3) + b_{0,0,-1,0,-1,0,1,0,3,0}^r (x_2 x_3 x_4 x_5^3 - 3x_2 x_3 x_4 x_5 y_5^2 - \\
& 3x_2 x_3 x_5^2 y_4 y_5 + x_2 x_3 y_4 y_5^3 + 3x_2 x_4 x_5^2 y_3 y_5 - x_2 x_4 y_3 y_5^3 + x_2 x_5^3 y_3 y_4 - \\
& 3x_2 x_5 y_3 y_4 y_5^2 + 3x_3 x_4 x_5^2 y_2 y_5 - x_3 x_4 y_2 y_5^3 + x_3 x_5^3 y_2 y_4 - 3x_3 x_5 y_2 y_4 y_5^2 - \\
& x_4 x_5^3 y_2 y_3 + 3x_4 x_5 y_2 y_3 y_5^2 + 3x_5^2 y_2 y_3 y_4 y_5 - y_2 y_3 y_4 y_5^3) + b_{0,0,-1,0,-1,0,3,0,-1,0}^r (x_2 x_3 x_4^3 x_5 + \\
& 3x_2 x_3 x_4^2 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_4^2 - x_2 x_3 y_4^3 y_5 - x_2 x_4^3 y_3 y_5 + 3x_2 x_4^2 x_5 y_3 y_4 + \\
& 3x_2 x_4 y_3 y_4^2 y_5 - x_2 x_5 y_3 y_4^3 - x_3 x_4^3 y_2 y_5 + 3x_3 x_4^2 x_5 y_2 y_4 + 3x_3 x_4 y_2 y_4^2 y_5 - \\
& x_3 x_5 y_2 y_4^3 - x_4^3 x_5 y_2 y_3 - 3x_4^2 y_2 y_3 y_4 y_5 + 3x_4 x_5 y_2 y_3 y_4^2 + y_2 y_3 y_4^3 y_5) + \\
& b_{0,0,-1,0,-1,1,-1,0,1,0}^r (x_3^2 + y_3^2)(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - \\
& x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + b_{0,0,-1,0,-3,0,-1,0,-1,0}^r (x_2 x_3^3 x_4 x_5 - x_2 x_3^3 y_4 y_5 - \\
& 3x_2 x_3^2 x_4 y_3 y_5 - 3x_2 x_3^2 x_5 y_3 y_4 - 3x_2 x_3 x_4 x_5 y_3^2 + 3x_2 x_3 y_3^2 y_4 y_5 + x_2 x_4 y_3^3 y_5 + \\
& x_2 x_5 y_3^3 y_4 - x_3^3 x_4 y_2 y_5 - x_3^3 x_5 y_2 y_4 - 3x_3^2 x_4 x_5 y_2 y_3 + 3x_3^2 y_2 y_3 y_4 y_5 + \\
& 3x_3 x_4 y_2 y_3^2 y_5 + 3x_3 x_5 y_2 y_3^2 y_4 + x_4 x_5 y_2 y_3^3 - y_2 y_3^3 y_4 y_5) + b_{0,0,-1,0,-3,0,1,0,1,0}^r (x_2 x_3^3 x_4 x_5 - \\
& x_2 x_3^3 y_4 y_5 + 3x_2 x_3^2 x_4 y_3 y_5 + 3x_2 x_3^2 x_5 y_3 y_4 - 3x_2 x_3 x_4 x_5 y_3^2 + 3x_2 x_3 y_3^2 y_4 y_5 - \\
& x_2 x_4 y_3^3 y_5 - x_2 x_5 y_3^3 y_4 + x_3^3 x_4 y_2 y_5 + x_3^3 x_5 y_2 y_4 - 3x_3^2 x_4 x_5 y_2 y_3 + 3x_3^2 y_2 y_3 y_4 y_5 - \\
& 3x_3 x_4 y_2 y_3^2 y_5 - 3x_3 x_5 y_2 y_3^2 y_4 + x_4 x_5 y_2 y_3^3 - y_2 y_3^3 y_4 y_5) + b_{0,0,-1,0,1,0,-1,0,-3,0}^r (x_2 x_3 x_4 x_5^3 - \\
& 3x_2 x_3 x_4 x_5 y_5^2 - 3x_2 x_3 x_5^2 y_4 y_5 + x_2 x_3 y_4 y_5^3 + 3x_2 x_4 x_5^2 y_3 y_5 - x_2 x_4 y_3 y_5^3 + \\
& x_2 x_5^3 y_3 y_4 - 3x_2 x_5 y_3 y_4 y_5^2 - 3x_3 x_4 x_5^2 y_2 y_5 + x_3 x_4 y_2 y_5^3 - x_3 x_5^3 y_2 y_4 + \\
& 3x_3 x_5 y_2 y_4 y_5^2 + x_4 x_5^3 y_2 y_3 - 3x_4 x_5 y_2 y_3 y_5^2 - 3x_5^2 y_2 y_3 y_4 y_5 + y_2 y_3 y_4 y_5^3) + \\
& b_{0,0,-1,0,1,0,-1,0,3,0}^r (x_2 x_3 x_4 x_5^3 - 3x_2 x_3 x_4 x_5 y_5^2 + 3x_2 x_3 x_5^2 y_4 y_5 - x_2 x_3 y_4 y_5^3 - \\
& 3x_2 x_4 x_5^2 y_3 y_5 + x_2 x_4 y_3 y_5^3 + x_2 x_5^3 y_3 y_4 - 3x_2 x_5 y_3 y_4 y_5^2 + 3x_3 x_4 x_5^2 y_2 y_5 - \\
& x_3 x_4 y_2 y_5^3 - x_3 x_5^3 y_2 y_4 + x_3 x_5 y_2 y_4 y_5^2 + x_4 x_5^3 y_2 y_3 - 3x_4 x_5 y_2 y_3 y_5^2 + \\
& 3x_5^2 y_2 y_3 y_4 y_5 - y_2 y_3 y_4 y_5^3) + b_{0,0,-1,0,1,0,-3,0,1,0}^r (x_2 x_3 x_4^3 x_5 + 3x_2 x_3 x_4^2 y_4 y_5 - \\
& 3x_2 x_3 x_4 x_5 y_4^2 - x_2 x_3 y_4^3 y_5 + 3x_2 x_4^2 x_5 y_3 y_4 + 3x_2 x_4 y_3 y_4^2 y_5 - \\
& x_2 x_5 y_3 y_4^3 + x_3 x_4^3 y_2 y_5 - 3x_3 x_4^2 x_5 y_2 y_4 - 3x_3 x_4 y_2 y_4^2 y_5 + x_3 x_5 y_2 y_4^3 + x_4^3 x_5 y_2 y_3 + \\
& 3x_4^2 y_2 y_3 y_4 y_5 - 3x_4 x_5 y_2 y_3 y_4^2 - y_2 y_3 y_4^3 y_5) + b_{0,0,-1,0,1,0,1,0,-1,1}^r (x_5^2 + y_5^2)(x_2 x_3 x_4 x_5 + \\
& x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + \\
& b_{0,0,-1,0,1,0,1,1,-1,0}^r (x_4^2 + y_4^2)(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + \\
& x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + b_{0,0,-1,0,1,0,3,0,1,0}^r (x_2 x_3 x_4^3 x_5 - 3x_2 x_3 x_4^2 y_4 y_5 - \\
& 3x_2 x_3 x_4 x_5 y_4^2 + x_2 x_3 y_4^3 y_5 - x_2 x_4^3 y_3 y_5 - 3x_2 x_4^2 x_5 y_3 y_4 + 3x_2 x_4 y_3 y_4^2 y_5 + \\
& x_2 x_5 y_3 y_4^3 + x_3 x_4^3 y_2 y_5 + 3x_3 x_4^2 x_5 y_2 y_4 - 3x_3 x_4 y_2 y_4^2 y_5 - x_3 x_5 y_2 y_4^3 + x_4^3 x_5 y_2 y_3 - \\
& 3x_4^2 y_2 y_3 y_4 y_5 - 3x_4 x_5 y_2 y_3 y_4^2 + y_2 y_3 y_4^3 y_5) + b_{0,0,-1,0,1,1,1,0,-1,0}^r (x_3^2 + y_3^2)(x_2 x_3 x_4 x_5 + \\
& x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + \\
& b_{0,0,-1,0,3,0,-1,0,-1,0}^r (x_2 x_3^3 x_4 x_5 - x_2 x_3^3 y_4 y_5 + 3x_2 x_3^2 x_4 y_3 y_5 + 3x_2 x_3^2 x_5 y_3 y_4 - \\
& 3x_2 x_3 x_4 x_5 y_3^2 + 3x_2 x_3 y_3^2 y_4 y_5 - x_2 x_4 y_3^3 y_5 - x_2 x_5 y_3^3 y_4 - x_3^3 x_4 y_2 y_5 - x_3^3 x_5 y_2 y_4 + \\
& 3x_3^2 x_4 x_5 y_2 y_3 - 3x_3^2 y_2 y_3 y_4 y_5 + 3x_3 x_4 y_2 y_3^2 y_5 + 3x_3 x_5 y_2 y_3^2 y_4 - x_4 x_5 y_2 y_3^3 + \\
& y_2 y_3^3 y_4 y_5) + b_{0,0,-1,0,3,0,1,0,1,0}^r (x_2 x_3^3 x_4 x_5 - x_2 x_3^3 y_4 y_5 - 3x_2 x_3^2 x_4 y_3 y_5 - 3x_2 x_3^2 x_5 y_3 y_4 - \\
& 3x_2 x_3 x_4 x_5 y_3^2 + 3x_2 x_3 y_3^2 y_4 y_5 + x_2 x_4 y_3^3 y_5 + x_2 x_5 y_3^3 y_4 + x_3^3 x_4 y_2 y_5 + x_3^3 x_5 y_2 y_4 + \\
& 3x_3^2 x_4 x_5 y_2 y_3 - 3x_3^2 y_2 y_3 y_4 y_5 - 3x_3 x_4 y_2 y_3^2 y_5 - 3x_3 x_5 y_2 y_3^2 y_4 - x_4 x_5 y_2 y_3^3 + \\
& y_2 y_3^3 y_4 y_5) + b_{0,0,-1,1,-1,0,-1,0,1,0}^r (x_2^2 + y_2^2)(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 +
\end{aligned}$$

$$\begin{aligned}
& x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + b_{0,0,-1,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) + \\
& b_{0,0,-2,0,-2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 - x_2x_4y_3 - x_2y_3y_4 - x_3x_4y_2 - x_3y_2y_4 - x_4y_2y_3 + \\
& y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 + x_2x_4y_3 - x_2y_3y_4 + x_3x_4y_2 - x_3y_2y_4 - x_4y_2y_3 - y_2y_3y_4) + \\
& b_{0,0,-2,0,-2,0,0,0,2,0}^r(x_2x_3x_5 - x_2x_3y_5 + x_2x_5y_3 + x_2y_3y_5 + x_3x_5y_2 + x_3y_2y_5 - x_5y_2y_3 + \\
& y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 - x_2x_5y_3 + x_2y_3y_5 - x_3x_5y_2 + x_3y_2y_5 - x_5y_2y_3 - y_2y_3y_5) + \\
& b_{0,0,-2,0,-4,0,0,0,0,0}^r(x_2x_3^2 - 2x_2x_3y_3 - x_2y_3^2 - x_3^2y_2 - 2x_3y_2y_3 + y_2y_3^2)(x_2x_3^2 + 2x_2x_3y_3 - \\
& x_2y_3^2 + x_3^2y_2 - 2x_3y_2y_3 - y_2y_3^2) + b_{0,0,-2,0,0,0,-2,0,2,0}^r(x_2x_4x_5 - x_2x_4y_5 + x_2x_5y_4 + x_2y_4y_5 + \\
& x_4x_5y_2 + x_4y_2y_5 - x_5y_2y_4 + y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 - x_2x_5y_4 + x_2y_4y_5 - x_4x_5y_2 + \\
& x_4y_2y_5 - x_5y_2y_4 - y_2y_4y_5) + b_{0,0,-2,0,0,0,-4,0,0,0}^r(x_2x_4^2 - 2x_2x_4y_4 - x_2y_4^2 - x_4^2y_2 - 2x_4y_2y_4 + \\
& y_2y_4^2)(x_2x_4^2 + 2x_2x_4y_4 - x_2y_4^2 + x_4^2y_2 - 2x_4y_2y_4 - y_2y_4^2) + b_{0,0,-2,0,0,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) + b_{0,0,-2,0,0,0,0,0,4,0}^r(x_2x_5^2 - 2x_2x_5y_5 - \\
& x_2y_5^2 + x_5^2y_2 + 2x_5y_2y_5 - y_2y_5^2)(x_2x_5^2 + 2x_2x_5y_5 - x_2y_5^2 - x_5^2y_2 + 2x_5y_2y_5 + y_2y_5^2) + \\
& b_{0,0,-2,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) + \\
& b_{0,0,-2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + \\
& b_{0,0,-2,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + \\
& b_{0,0,-2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) + \\
& b_{0,0,-2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + \\
& b_{0,0,-2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + \\
& b_{0,0,-2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + \\
& b_{0,0,-2,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + \\
& b_{0,0,-2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) + \\
& b_{0,0,-2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + \\
& b_{0,0,-2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) + \\
& b_{0,0,-3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4x_5 + x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 + \\
& 3x_2^2x_3x_5y_2y_4 - 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 - 3x_2x_3y_2^2y_4y_5 + \\
& 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 + x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 + x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) + \\
& b_{0,0,-3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 + x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 - \\
& 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 - \\
& 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 + x_3x_4y_2^3y_5 + x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) + \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 - x_2^3x_5y_3y_4 + 3x_2^2x_3x_4y_2y_5 + \\
& 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 + \\
& 3x_2x_4y_2^2y_3y_5 + 3x_2x_5y_2^2y_3y_4 - x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) + \\
& b_{0,0,-4,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) + b_{0,0,-4,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) + b_{0,0,-4,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + \\
& 2x_2y_2 - y_2^2) + b_{0,0,-4,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) + \\
& b_{0,0,0,0,-2,0,-2,0,-2,0}^r(x_3x_4x_5 - x_3x_4y_5 - x_3x_5y_4 - x_3y_4y_5 - x_4x_5y_3 - x_4y_3y_5 - x_5y_3y_4 + \\
& y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 + x_3x_5y_4 - x_3y_4y_5 + x_4x_5y_3 - x_4y_3y_5 - x_5y_3y_4 - y_3y_4y_5) + \\
& b_{0,0,0,0,-2,0,0,0,2}^r(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2)^2 + b_{0,0,0,0,-2,0,0,1,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) + b_{0,0,0,0,-2,0,0,2,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2)^2 + b_{0,0,0,0,-2,0,2,0,2,0}^r(x_3x_4x_5 - x_3x_4y_5 - x_3x_5y_4 - \\
& x_3y_4y_5 + x_4x_5y_3 + x_4y_3y_5 + x_5y_3y_4 - y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 + x_3x_5y_4 - x_3y_4y_5 - \\
& x_4x_5y_3 + x_4y_3y_5 + x_5y_3y_4 + y_3y_4y_5) + b_{0,0,0,0,-2,1,0,0,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2)(x_5^2 + y_5^2) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,0,-2,1,0,1,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,0,0,-2,2,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2)^2 + b_{0,0,0,0,-4,0,0,0,-2,0}^r(x_3^2 x_5 - x_3^2 y_5 - 2x_3 x_5 y_3 - 2x_3 y_3 y_5 - x_5 y_3^2 + y_3^2 y_5)(x_3^2 x_5 + x_3^2 y_5 + 2x_3 x_5 y_3 - 2x_3 y_3 y_5 - x_5 y_3^2 - y_3^2 y_5) + b_{0,0,0,0,-4,0,2,0,0,0}^r(x_3^2 x_4 - x_3^2 y_4 + 2x_3 x_4 y_3 + 2x_3 y_3 y_4 - x_4 y_3^2 + y_3^2 y_4)(x_3^2 x_4 + x_3^2 y_4 - 2x_3 x_4 y_3 + 2x_3 y_3 y_4 - x_4 y_3^2 - y_3^2 y_4) + \\
& b_{0,0,0,0,0,0,-2,0,0,2}^r(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2)^2 + b_{0,0,0,0,0,0,-2,1,0,1}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,-2,2,0,0}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2)^2 + b_{0,0,0,0,0,0,-4,0,-2,0}^r(x_4^2 x_5 - x_4^2 y_5 - 2x_4 x_5 y_4 - 2x_4 y_4 y_5 - x_5 y_4^2 + y_4^2 y_5)(x_4^2 x_5 + x_4^2 y_5 + 2x_4 x_5 y_4 - 2x_4 y_4 y_5 - x_5 y_4^2 - y_4^2 y_5) + \\
& b_{0,0,0,0,0,0,0,0,-4,1}^r(x_5^2 + y_5^2)(x_5^2 - 2x_5 y_5 - y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) + b_{0,0,0,0,0,0,0,0,2,2}^r(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2)^2 + b_{0,0,0,0,0,0,0,1,-4,0}^r(x_4^2 + y_4^2)(x_5^2 - 2x_5 y_5 - y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) + \\
& b_{0,0,0,0,0,0,0,1,2,1}^r(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) + b_{0,0,0,0,0,0,0,2,2,0}^r(x_4^2 + y_4^2)^2(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,0,0,0,2,0,-2,1}^r(x_5^2 + y_5^2)(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5)(x_4 x_5 + x_4 y_5 - x_5 y_4 + y_4 y_5) + \\
& b_{0,0,0,0,0,0,2,0,4,0}^r(x_4 x_5^2 - 2x_4 x_5 y_5 - x_4 y_5^2 - x_5^2 y_4 - 2x_5 y_4 y_5 + y_4 y_5^2)(x_4 x_5^2 + 2x_4 x_5 y_5 - x_4 y_5^2 + x_5^2 y_4 - 2x_5 y_4 y_5 - y_4 y_5^2) + b_{0,0,0,0,0,0,2,1,-2,0}^r(x_4^2 + y_4^2)(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5)(x_4 x_5 + x_4 y_5 - x_5 y_4 + y_4 y_5) + b_{0,0,0,0,0,0,4,0,0,1}^r(x_5^2 + y_5^2)(x_4^2 - 2x_4 y_4 - y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) + b_{0,0,0,0,0,0,4,1,0,0}^r(x_4^2 + y_4^2)(x_4^2 - 2x_4 y_4 - y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) + b_{0,0,0,0,0,1,-2,0,0,1}^r(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) + b_{0,0,0,0,0,1,-2,1,0,0}^r(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + b_{0,0,0,0,0,1,0,0,-4,0}^r(x_3^2 + y_3^2)(x_5^2 - 2x_5 y_5 - y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) + b_{0,0,0,0,0,1,0,0,2,1}^r(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) + b_{0,0,0,0,0,1,0,1,2,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,0,0,1,2,0,-2,0}^r(x_3^2 + y_3^2)(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5)(x_4 x_5 + x_4 y_5 - x_5 y_4 + y_4 y_5) + b_{0,0,0,0,0,1,4,0,0,0}^r(x_3^2 + y_3^2)(x_4^2 - 2x_4 y_4 - y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) + b_{0,0,0,0,0,2,-2,0,0,0}^r(x_3^2 + y_3^2)^2(x_4 - y_4)(x_4 + y_4) + b_{0,0,0,0,0,2,0,0,2,0}^r(x_3^2 + y_3^2)^2(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,0,2,0,-2,0,2,0}^r(x_3 x_4 x_5 - x_3 x_4 y_5 + x_3 x_5 y_4 + x_3 y_4 y_5 - x_4 x_5 y_3 - x_4 y_3 y_5 + x_5 y_3 y_4 - y_3 y_4 y_5)(x_3 x_4 x_5 + x_3 x_4 y_5 - x_3 x_5 y_4 + x_3 y_4 y_5 + x_4 x_5 y_3 - x_4 y_3 y_5 + x_5 y_3 y_4 + y_3 y_4 y_5) + b_{0,0,0,0,2,0,-4,0,0,0}^r(x_3 x_4^2 - 2x_3 x_4 y_4 - x_3 y_4^2 + x_4^2 y_3 + 2x_4 y_3 y_4 - y_3 y_4^2)(x_3 x_4^2 + 2x_3 x_4 y_4 - x_3 y_4^2 - x_4^2 y_3 + 2x_4 y_3 y_4 + y_3 y_4^2) + b_{0,0,0,0,2,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_3 x_5 - x_3 y_5 + x_5 y_3 + y_3 y_5)(x_3 x_5 + x_3 y_5 - x_5 y_3 + y_3 y_5) + b_{0,0,0,0,2,0,0,0,4,0}^r(x_3 x_5^2 - 2x_3 x_5 y_5 - x_3 y_5^2 - x_5^2 y_3 - 2x_5 y_3 y_5 + y_3 y_5^2)(x_3 x_5^2 + 2x_3 x_5 y_5 - x_3 y_5^2 + x_5^2 y_3 - 2x_5 y_3 y_5 - y_3 y_5^2) + b_{0,0,0,0,2,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_3 x_5 - x_3 y_5 + x_5 y_3 + y_3 y_5)(x_3 x_5 + x_3 y_5 - x_5 y_3 + y_3 y_5) + b_{0,0,0,0,2,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_3 x_4 - x_3 y_4 - x_4 y_3 - y_3 y_4)(x_3 x_4 + x_3 y_4 + x_4 y_3 - y_3 y_4) + b_{0,0,0,0,2,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_3 x_4 - x_3 y_4 - x_4 y_3 - y_3 y_4)(x_3 x_4 + x_3 y_4 + x_4 y_3 - y_3 y_4) + b_{0,0,0,0,2,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_3 x_5 - x_3 y_5 + x_5 y_3 + y_3 y_5)(x_3 x_5 + x_3 y_5 - x_5 y_3 + y_3 y_5) + b_{0,0,0,0,2,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_3 x_4 - x_3 y_4 - x_4 y_3 - y_3 y_4)(x_3 x_4 + x_3 y_4 + x_4 y_3 - y_3 y_4) + b_{0,0,0,0,4,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_3^2 - 2x_3 y_3 - y_3^2)(x_3^2 + 2x_3 y_3 - y_3^2) + b_{0,0,0,0,4,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_3^2 - 2x_3 y_3 - y_3^2)(x_3^2 + 2x_3 y_3 - y_3^2) + b_{0,0,0,0,4,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_3^2 - 2x_3 y_3 - y_3^2)(x_3^2 + 2x_3 y_3 - y_3^2) + b_{0,0,0,1,-2,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) + b_{0,0,0,1,-2,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2) + b_{0,0,0,1,-2,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + b_{0,0,0,1,0,0,-2,0,0,1}^r(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) + b_{0,0,0,1,0,0,-2,1,0,0}^r(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + b_{0,0,0,1,0,0,0,0,-4,0}^r(x_2^2 + y_2^2)(x_5^2 - 2x_5 y_5 - y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) + b_{0,0,0,1,0,0,0,0,2,1}^r(x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) + b_{0,0,0,1,0,0,0,1,2,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,1,0,0,2,0,-2,0}^r(x_2^2 + y_2^2)(x_4 x_5 - x_4 y_5 + x_5 y_4 + y_4 y_5)(x_4 x_5 + x_4 y_5 - x_5 y_4 + y_4 y_5) + b_{0,0,0,1,0,0,4,0,0,0}^r(x_2^2 + y_2^2)(x_4^2 - 2x_4 y_4 - y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) + b_{0,0,0,1,0,1,-2,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) + b_{0,0,0,1,0,1,0,0,2,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) + b_{0,0,0,1,2,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_3 x_5 - x_3 y_5 + x_5 y_3 + y_3 y_5)(x_3 x_5 + x_3 y_5 - x_5 y_3 + y_3 y_5) +
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,1,2,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) + \\
& b_{0,0,0,1,4,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) + b_{0,0,0,2,-2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)^2(x_3 - y_3)(x_3 + y_3) + b_{0,0,0,2,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)^2(x_4 - y_4)(x_4 + y_4) + b_{0,0,0,2,0,0,0,0,2,0}^r(x_2^2 + \\
& y_2^2)^2(x_5 - y_5)(x_5 + y_5) + b_{0,0,1,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + b_{0,0,1,0,-1,0,-1,1,-1,0}^r(x_4^2 + \\
& y_4^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - \\
& y_2y_3y_4y_5) + b_{0,0,1,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - \\
& x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + b_{0,0,1,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 - \\
& x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& b_{0,0,1,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + b_{0,0,1,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r(x_2x_3^3x_4x_5 + x_2x_3^3y_4y_5 - 3x_2x_3^2x_4y_3y_5 + 3x_2x_3^2x_5y_3y_4 - \\
& 3x_2x_3x_4x_5y_3^2 - 3x_2x_3y_3^2y_4y_5 + x_2x_4y_3^3y_5 - x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 - x_3^3x_5y_2y_4 + \\
& 3x_3^2x_4x_5y_2y_3 + 3x_3^2y_2y_3y_4y_5 - 3x_3x_4y_2y_3^2y_5 + 3x_3x_5y_2y_3^2y_4 - x_4x_5y_2y_3^3 - \\
& y_2y_3^3y_4y_5) + b_{0,0,1,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - \\
& x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + b_{0,0,1,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r(x_2x_3x_4^3x_5 - 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 + x_2x_3y_4^3y_5 + x_2x_4^3y_3y_5 + \\
& 3x_2x_4^2x_5y_3y_4 - 3x_2x_4y_3y_4^2y_5 - x_2x_5y_3y_4^3 + x_3x_4^3y_2y_5 + 3x_3x_4^2x_5y_2y_4 - \\
& 3x_3x_4y_2y_4^2y_5 - x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 + 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 - \\
& y_2y_3y_4^3y_5) + b_{0,0,1,0,1,0,1,0,-3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 + 3x_2x_3x_5^2y_4y_5 - x_2x_3y_4y_5^3 + \\
& 3x_2x_4x_5^2y_3y_5 - x_2x_4y_3y_5^3 - x_2x_5^3y_3y_4 + 3x_2x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_2y_5 - \\
& x_3x_4y_2y_5^3 - x_3x_5^3y_2y_4 + 3x_3x_5y_2y_4y_5^2 - x_4x_5^3y_2y_3 + 3x_4x_5y_2y_3y_5^2 - \\
& 3x_5^2y_2y_3y_4y_5 + y_2y_3y_4y_5^3) + b_{0,0,1,0,1,0,1,0,3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 - \\
& 3x_2x_3x_5^2y_4y_5 + x_2x_3y_4y_5^3 - 3x_2x_4x_5^2y_3y_5 + x_2x_4y_3y_5^3 - x_2x_5^3y_3y_4 + \\
& 3x_2x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_2y_5 + x_3x_4y_2y_5^3 - x_3x_5^3y_2y_4 + 3x_3x_5y_2y_4y_5^2 - \\
& x_4x_5^3y_2y_3 + 3x_4x_5y_2y_3y_5^2 + 3x_5^2y_2y_3y_4y_5 - y_2y_3y_4y_5^3) + b_{0,0,1,0,1,0,3,0,-1,0}^r(x_2x_3x_4^3x_5 + \\
& 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 - x_2x_3y_4^3y_5 + x_2x_4^3y_3y_5 - 3x_2x_4^2x_5y_3y_4 - \\
& 3x_2x_4y_3y_4^2y_5 + x_2x_5y_3y_4^3 + x_3x_4^3y_2y_5 - 3x_3x_4^2x_5y_2y_4 - 3x_3x_4y_2y_4^2y_5 + \\
& x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 - 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 + y_2y_3y_4^3y_5) + \\
& b_{0,0,1,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + b_{0,0,1,0,3,0,1,0,-1,0}^r(x_2x_3^3x_4x_5 + x_2x_3^3y_4y_5 + \\
& 3x_2x_3^2x_4y_3y_5 - 3x_2x_3^2x_5y_3y_4 - 3x_2x_3x_4x_5y_3^2 - 3x_2x_3y_3^2y_4y_5 - x_2x_4y_3^3y_5 + \\
& x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 - x_3^3x_5y_2y_4 - 3x_3^2x_4x_5y_2y_3 - 3x_3^2y_2y_3y_4y_5 - \\
& 3x_3x_4y_2y_3^2y_5 + 3x_3x_5y_2y_3^2y_4 + x_4x_5y_2y_3^3 + y_2y_3^3y_4y_5) + b_{0,0,1,1,-1,0,-1,0,-1,0}^r(x_2^2 + \\
& y_2^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - \\
& y_2y_3y_4y_5) + b_{0,0,1,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - \\
& x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + b_{0,0,1,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& b_{0,0,2,0,-2,0,0,0,-2,0}^r(x_2x_3x_5 - x_2x_3y_5 - x_2x_5y_3 - x_2y_3y_5 + x_3x_5y_2 + x_3y_2y_5 + x_5y_2y_3 - \\
& y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 + x_2x_5y_3 - x_2y_3y_5 - x_3x_5y_2 + x_3y_2y_5 + x_5y_2y_3 + y_2y_3y_5) + \\
& b_{0,0,2,0,-2,0,2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 + x_2x_4y_3 + x_2y_3y_4 - x_3x_4y_2 - x_3y_2y_4 + x_4y_2y_3 -
\end{aligned}$$

$$\begin{aligned}
& y_2 y_3 y_4)(x_2 x_3 x_4 + x_2 x_3 y_4 - x_2 x_4 y_3 + x_2 y_3 y_4 + x_3 x_4 y_2 - x_3 y_2 y_4 + x_4 y_2 y_3 + y_2 y_3 y_4) + \\
& b_{0,0,2,0,0,0,-2,0,-2,0}^r(x_2 x_4 x_5 - x_2 x_4 y_5 - x_2 x_5 y_4 - x_2 y_4 y_5 + x_4 x_5 y_2 + x_4 y_2 y_5 + x_5 y_2 y_4 - \\
& y_2 y_4 y_5)(x_2 x_4 x_5 + x_2 x_4 y_5 + x_2 x_5 y_4 - x_2 y_4 y_5 - x_4 x_5 y_2 + x_4 y_2 y_5 + x_5 y_2 y_4 + y_2 y_4 y_5) + \\
& b_{0,0,2,0,0,0,0,0,0,2}^r(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2)^2 + b_{0,0,2,0,0,0,0,1,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) + b_{0,0,2,0,0,0,0,2,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2)^2 + b_{0,0,2,0,0,0,0,2,0,2,0}^r(x_2 x_4 x_5 - x_2 x_4 y_5 - x_2 x_5 y_4 - \\
& x_2 y_4 y_5 - x_4 x_5 y_2 - x_4 y_2 y_5 - x_5 y_2 y_4 + y_2 y_4 y_5)(x_2 x_4 x_5 + x_2 x_4 y_5 + x_2 x_5 y_4 - x_2 y_4 y_5 + \\
& x_4 x_5 y_2 - x_4 y_2 y_5 - x_5 y_2 y_4 - y_2 y_4 y_5) + b_{0,0,2,0,0,1,0,0,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2)(x_5^2 + y_5^2) + \\
& b_{0,0,2,0,0,1,0,1,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{0,0,2,0,0,2,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_3^2 + \\
& y_3^2)^2 + b_{0,0,2,0,2,0,-2,0,0,0}^r(x_2 x_3 x_4 - x_2 x_3 y_4 + x_2 x_4 y_3 + x_2 y_3 y_4 + x_3 x_4 y_2 + x_3 y_2 y_4 - x_4 y_2 y_3 + \\
& y_2 y_3 y_4)(x_2 x_3 x_4 + x_2 x_3 y_4 - x_2 x_4 y_3 + x_2 y_3 y_4 - x_3 x_4 y_2 + x_3 y_2 y_4 - x_4 y_2 y_3 - y_2 y_3 y_4) + \\
& b_{0,0,2,0,2,0,0,0,2,0}^r(x_2 x_3 x_5 - x_2 x_3 y_5 - x_2 x_5 y_3 - x_2 y_3 y_5 - x_3 x_5 y_2 - x_3 y_2 y_5 - x_5 y_2 y_3 + \\
& y_2 y_3 y_5)(x_2 x_3 x_5 + x_2 x_3 y_5 + x_2 x_5 y_3 - x_2 y_3 y_5 + x_3 x_5 y_2 - x_3 y_2 y_5 - x_5 y_2 y_3 - y_2 y_3 y_5) + \\
& b_{0,0,2,1,0,0,0,0,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{0,0,2,1,0,0,0,1,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 + \\
& y_2^2)(x_4^2 + y_4^2) + b_{0,0,2,1,0,1,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{0,0,2,2,0,0,0,0,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_2^2 + y_2^2)^2 + b_{0,0,3,0,-1,0,1,0,-1,0}^r(x_2^3 x_3 x_4 x_5 + x_2^3 x_3 y_4 y_5 - x_2^3 x_4 y_3 y_5 + \\
& x_2^3 x_5 y_3 y_4 + 3x_2^2 x_3 x_4 y_2 y_5 - 3x_2^2 x_3 x_5 y_2 y_4 + 3x_2^2 x_4 x_5 y_2 y_3 + 3x_2^2 y_2 y_3 y_4 y_5 - \\
& 3x_2 x_3 x_4 x_5 y_2^2 - 3x_2 x_3 y_2^2 y_4 y_5 + 3x_2 x_4 y_2^2 y_3 y_5 - 3x_2 x_5 y_2^2 y_3 y_4 - x_3 x_4 y_2^3 y_5 + \\
& x_3 x_5 y_2^3 y_4 - x_4 x_5 y_2^3 y_3 - y_2^3 y_3 y_4 y_5) + b_{0,0,3,0,1,0,-1,0,-1,0}^r(x_2^3 x_3 x_4 x_5 - x_2^3 x_3 y_4 y_5 + \\
& x_2^3 x_4 y_3 y_5 + x_2^3 x_5 y_3 y_4 + 3x_2^2 x_3 x_4 y_2 y_5 + 3x_2^2 x_3 x_5 y_2 y_4 - 3x_2^2 x_4 x_5 y_2 y_3 + \\
& 3x_2^2 y_2 y_3 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_2^2 + 3x_2 x_3 y_2^2 y_4 y_5 - 3x_2 x_4 y_2^2 y_3 y_5 - 3x_2 x_5 y_2^2 y_3 y_4 - \\
& x_3 x_4 y_2^3 y_5 - x_3 x_5 y_2^3 y_4 + x_4 x_5 y_2^3 y_3 - y_2^3 y_3 y_4 y_5) + b_{0,0,3,0,1,0,1,0,1,0}^r(x_2^3 x_3 x_4 x_5 - \\
& x_2^3 x_3 y_4 y_5 - x_2^3 x_4 y_3 y_5 - x_2^3 x_5 y_3 y_4 - 3x_2^2 x_3 x_4 y_2 y_5 - 3x_2^2 x_3 x_5 y_2 y_4 - \\
& 3x_2^2 x_4 x_5 y_2 y_3 + 3x_2^2 y_2 y_3 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_2^2 + 3x_2 x_3 y_2^2 y_4 y_5 + 3x_2 x_4 y_2^2 y_3 y_5 + \\
& 3x_2 x_5 y_2^2 y_3 y_4 + x_3 x_4 y_2^3 y_5 + x_3 x_5 y_2^3 y_4 + x_4 x_5 y_2^3 y_3 - y_2^3 y_3 y_4 y_5) + \\
& b_{0,0,4,0,0,0,0,0,-2,0}^r(x_2^2 x_5 - x_2^2 y_5 + 2x_2 x_5 y_2 + 2x_2 y_2 y_5 - x_5 y_2^2 + y_2^2 y_5)(x_2^2 x_5 + x_2^2 y_5 - \\
& 2x_2 x_5 y_2 + 2x_2 y_2 y_5 - x_5 y_2^2 - y_2^2 y_5) + b_{0,0,4,0,0,0,2,0,0,0}^r(x_2^2 x_4 - x_2^2 y_4 - 2x_2 x_4 y_2 - 2x_2 y_2 y_4 - \\
& x_4 y_2^2 + y_2^2 y_4)(x_2^2 x_4 + x_2^2 y_4 + 2x_2 x_4 y_2 - 2x_2 y_2 y_4 - x_4 y_2^2 - y_2^2 y_4) + \\
& b_{0,0,4,0,2,0,0,0,0,0}^r(x_2^2 x_3 - x_2^2 y_3 - 2x_2 x_3 y_2 - 2x_2 y_2 y_3 - x_3 y_2^2 + y_2^2 y_3)(x_2^2 x_3 + x_2^2 y_3 + \\
& 2x_2 x_3 y_2 - 2x_2 y_2 y_3 - x_3 y_2^2 - y_2^2 y_3) + b_{0,1,-1,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + \\
& x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) + \\
& b_{0,1,-1,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + \\
& x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) + b_{0,1,-2,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_2 x_5 - x_2 y_5 - x_5 y_2 - \\
& y_2 y_5)(x_2 x_5 + x_2 y_5 + x_5 y_2 - y_2 y_5) + b_{0,1,-2,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2 x_4 - x_2 y_4 + x_4 y_2 + y_2 y_4)(x_2 x_4 + \\
& x_2 y_4 - x_4 y_2 + y_2 y_4) + b_{0,1,-2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2 x_3 - x_2 y_3 + x_3 y_2 + y_2 y_3)(x_2 x_3 + x_2 y_3 - x_3 y_2 + \\
& y_2 y_3) + b_{0,1,-4,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 - 2x_2 y_2 - y_2^2)(x_2^2 + 2x_2 y_2 - y_2^2) + b_{0,1,0,0,-2,0,0,0,0,1}^r(x_1^2 + \\
& y_1^2)(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) + b_{0,1,0,0,-2,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2) + \\
& b_{0,1,0,0,-2,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + b_{0,1,0,0,0,0,-2,0,0,1}^r(x_1^2 + y_1^2)(x_4 - y_4)(x_4 + \\
& y_4)(x_5^2 + y_5^2) + b_{0,1,0,0,0,0,-2,1,0,0}^r(x_1^2 + y_1^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + b_{0,1,0,0,0,0,0,-4,0}^r(x_1^2 + \\
& y_1^2)(x_5^2 - 2x_5 y_5 - y_5^2)(x_5^2 + 2x_5 y_5 - y_5^2) + b_{0,1,0,0,0,0,0,0,2,1}^r(x_1^2 + y_1^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + \\
& y_5^2) + b_{0,1,0,0,0,0,0,1,2,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) + b_{0,1,0,0,0,0,2,0,-2,0}^r(x_1^2 + y_1^2)(x_4 x_5 - \\
& x_4 y_5 + x_5 y_4 + y_4 y_5)(x_4 x_5 + x_4 y_5 - x_5 y_4 + y_4 y_5) + b_{0,1,0,0,0,0,4,0,0,0}^r(x_1^2 + y_1^2)(x_4^2 - 2x_4 y_4 - \\
& y_4^2)(x_4^2 + 2x_4 y_4 - y_4^2) + b_{0,1,0,0,0,1,-2,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) +
\end{aligned}$$



$$\begin{aligned}
& b_{0,1,0,0,0,1,0,0,2,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) + b_{0,1,0,0,2,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_3x_5 - x_3y_5 + \\
& x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) + b_{0,1,0,0,2,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_3x_4 - x_3y_4 - x_4y_3 - \\
& y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) + b_{0,1,0,0,4,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - \\
& y_3^2) + b_{0,1,0,1,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3) + b_{0,1,0,1,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + \\
& y_2^2)(x_4 - y_4)(x_4 + y_4) + b_{0,1,0,1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) + b_{0,1,1,0,-1,0,-1,0,-1,0}^r(x_1^2 + \\
& y_1^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - \\
& y_2y_3y_4y_5) + b_{0,1,1,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - \\
& x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) + b_{0,1,1,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) + \\
& b_{0,1,2,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) + b_{0,1,2,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + \\
& y_2)(x_4^2 + y_4^2) + b_{0,1,2,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2) + b_{0,1,2,1,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_2 - y_2)(x_2 + y_2)(x_2^2 + y_2^2) + b_{0,2,0,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_3 - y_3)(x_3 + y_3) + \\
& b_{0,2,0,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)^2(x_4 - y_4)(x_4 + y_4) + b_{0,2,0,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)^2(x_5 - y_5)(x_5 + y_5) + \\
& b_{0,2,2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_2 - y_2)(x_2 + y_2) + b_{1,0,-1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - \\
& 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) + b_{1,0,-1,0,-2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_3^2 - \\
& x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) + b_{1,0,-1,0,-2,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) + \\
& b_{1,0,-1,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - \\
& y_1y_2y_4^2) + b_{1,0,-1,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + \\
& x_4^2y_1y_2 - y_1y_2y_4^2) + b_{1,0,-1,0,0,0,0,0,-4,0}^r(x_1x_2x_5^4 - 6x_1x_2x_5^2y_5^2 + x_1x_2y_5^4 - 4x_1x_5^3y_2y_5 + \\
& 4x_1x_5y_2y_5^3 + 4x_2x_5^3y_1y_5 - 4x_2x_5y_1y_5^3 + x_5^4y_1y_2 - 6x_5^2y_1y_2y_5^2 + y_1y_2y_5^4) + \\
& b_{1,0,-1,0,0,0,0,0,2,1}^r(x_5^2 + y_5^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + x_5^2y_1y_2 - \\
& y_1y_2y_5^2) + b_{1,0,-1,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) + b_{1,0,-1,0,0,0,2,0,-2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 + 4x_1x_2x_4x_5y_4y_5 - \\
& x_1x_2x_5^2y_4^2 + x_1x_2y_4^2y_5^2 - 2x_1x_4^2x_5y_2y_5 + 2x_1x_4x_5^2y_2y_4 - 2x_1x_4y_2y_4y_5^2 + \\
& 2x_1x_5y_2y_4^2y_5 + 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 + \\
& x_4^2x_5^2y_1y_2 - x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 - x_5^2y_1y_2y_4^2 + y_1y_2y_4^2y_5^2) + \\
& b_{1,0,-1,0,0,0,4,0,0,0}^r(x_1x_2x_4^4 - 6x_1x_2x_4^2y_4^2 + x_1x_2y_4^4 + 4x_1x_4^3y_2y_4 - 4x_1x_4y_2y_4^3 - \\
& 4x_2x_4^3y_1y_4 + 4x_2x_4y_1y_4^3 + x_4^4y_1y_2 - 6x_4^2y_1y_2y_4^2 + y_1y_2y_4^4) + b_{1,0,-1,0,0,1,-2,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) + \\
& b_{1,0,-1,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + x_5^2y_1y_2 - \\
& y_1y_2y_5^2) + b_{1,0,-1,0,2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + \\
& x_1x_2y_3^2y_5^2 - 2x_1x_3^2x_5y_2y_5 + 2x_1x_3x_5^2y_2y_3 - 2x_1x_3y_2y_3y_5^2 + 2x_1x_5y_2y_3^2y_5 + \\
& 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 - 2x_2x_5y_1y_3^2y_5 + x_3^2x_5^2y_1y_2 - \\
& x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 - x_5^2y_1y_2y_3^2 + y_1y_2y_3^2y_5^2) + \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + \\
& x_1x_2y_3^2y_4^2 + 2x_1x_3^2x_4y_2y_4 + 2x_1x_3x_4^2y_2y_3 - 2x_1x_3y_2y_3y_4^2 - 2x_1x_4y_2y_3^2y_4 - \\
& 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 + x_3^2x_4^2y_1y_2 - \\
& x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 - x_4^2y_1y_2y_3^2 + y_1y_2y_3^2y_4^2) + b_{1,0,-1,0,4,0,0,0,0,0}^r(x_1x_2x_4^4 - \\
& 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 + 4x_1x_3^3y_2y_3 - 4x_1x_3y_2y_3^3 - 4x_2x_3^3y_1y_3 + 4x_2x_3y_1y_3^3 + \\
& x_3^4y_1y_2 - 6x_3^2y_1y_2y_3^2 + y_1y_2y_3^4) + b_{1,0,-1,1,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - \\
& 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) + b_{1,0,-1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_4^2 -
\end{aligned}$$

$$\begin{aligned}
& x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) + b_{1,0,-1,1,0,0,0,2,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) + \\
& b_{1,0,-2,0,-1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 + \\
& 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - \\
& x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 + \\
& x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - \\
& 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) + \\
& b_{1,0,-2,0,1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 - \\
& 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - \\
& x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 - \\
& x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - \\
& 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) + \\
& b_{1,0,-3,0,0,0,0,0,-2,0}^r(x_1x_2^3x_5^2 - x_1x_2^3y_5^2 - 6x_1x_2^2x_5y_2y_5 - 3x_1x_2x_5^2y_2^2 + 3x_1x_2y_2^2y_5^2 + \\
& 2x_1x_5y_2^3y_5 + 2x_2^3x_5y_1y_5 + 3x_2^2x_5^2y_1y_2 - 3x_2^2y_1y_2y_5^2 - 6x_2x_5y_1y_2^2y_5 - \\
& x_5^2y_1y_2^3 + y_1y_2^3y_5^2) + b_{1,0,-3,0,0,0,2,0,0,0}^r(x_1x_2^3x_4^2 - x_1x_2^3y_4^2 + 6x_1x_2^2x_4y_2y_4 - \\
& 3x_1x_2x_4^2y_2^2 + 3x_1x_2y_2^2y_4^2 - 2x_1x_4y_2^3y_4 - 2x_2^3x_4y_1y_4 + 3x_2^2x_4^2y_1y_2 - \\
& 3x_2^2y_1y_2y_4^2 + 6x_2x_4y_1y_2^2y_4 - x_4^2y_1y_2^3 + y_1y_2^3y_4^2) + b_{1,0,-3,0,2,0,0,0,0,0}^r(x_1x_2^3x_3^2 - \\
& x_1x_2^3y_3^2 + 6x_1x_2^2x_3y_2y_3 - 3x_1x_2x_3^2y_2^2 + 3x_1x_2y_2^2y_3^2 - 2x_1x_3y_2^3y_3 - \\
& 2x_2^3x_3y_1y_3 + 3x_2^2x_3^2y_1y_2 - 3x_2^2y_1y_2y_3^2 + 6x_2x_3y_1y_2^2y_3 - x_3^2y_1y_2^3 + y_1y_2^3y_3^2) + \\
& b_{1,0,-5,0,0,0,0,0,0,0}^r(x_1x_2^5 - 10x_1x_2^3y_2^2 + 5x_1x_2y_2^4 + 5x_2^4y_1y_2 - 10x_2^2y_1y_2^3 + y_1y_2^5) + \\
& b_{1,0,0,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + b_{1,0,0,0,-1,0,1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) + b_{1,0,0,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + b_{1,0,0,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 - \\
& x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& b_{1,0,0,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + b_{1,0,0,0,-3,0,1,0,-1,0}^r(x_1x_3^3x_4x_5 + x_1x_3^3y_4y_5 - \\
& 3x_1x_3^2x_4y_3y_5 + 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 - 3x_1x_3y_3^2y_4y_5 + x_1x_4y_3^3y_5 - \\
& x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 + 3x_3^2x_4x_5y_1y_3 + 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 - y_1y_3^3y_4y_5) + b_{1,0,0,0,1,0,-1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) + b_{1,0,0,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + b_{1,0,0,0,1,0,-3,0,-1,0}^r(x_1x_3x_4^3x_5 - \\
& 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 + x_1x_3y_4^3y_5 + x_1x_4^3y_3y_5 + 3x_1x_4^2x_5y_3y_4 - \\
& 3x_1x_4y_3y_4^2y_5 - x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 + 3x_3x_4^2x_5y_1y_4 - 3x_3x_4y_1y_4^2y_5 - \\
& x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 + 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 - y_1y_3y_4^3y_5) + \\
& b_{1,0,0,0,1,0,1,0,-3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 + 3x_1x_3x_5^2y_4y_5 - x_1x_3y_4y_5^3 + \\
& 3x_1x_4x_5^2y_3y_5 - x_1x_4y_3y_5^3 - x_1x_5^3y_3y_4 + 3x_1x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_1y_5 - \\
& x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 - x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 - \\
& 3x_5^2y_1y_3y_4y_5 + y_1y_3y_4y_5^3) + b_{1,0,0,0,1,0,1,0,3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 -
\end{aligned}$$

$$\begin{aligned}
& 3x_1x_3x_5^2y_4y_5 + x_1x_3y_4y_5^3 - 3x_1x_4x_5^2y_3y_5 + x_1x_4y_3y_5^3 - x_1x_5^3y_3y_4 + \\
& 3x_1x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_1y_5 + x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 - \\
& x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 + 3x_5^2y_1y_3y_4y_5 - y_1y_3y_4y_5^3) + b_{1,0,0,0,1,0,3,0,-1,0}^r(x_1x_3x_4^3x_5 + \\
& 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 - x_1x_3y_4^3y_5 + x_1x_4^3y_3y_5 - 3x_1x_4^2x_5y_3y_4 - \\
& 3x_1x_4y_3y_4^2y_5 + x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 - 3x_3x_4^2x_5y_1y_4 - 3x_3x_4y_1y_4^2y_5 + \\
& x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 - 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 + y_1y_3y_4^3y_5) + \\
& b_{1,0,0,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + b_{1,0,0,0,3,0,1,0,-1,0}^r(x_1x_3^3x_4x_5 + x_1x_3^3y_4y_5 + \\
& 3x_1x_3^2x_4y_3y_5 - 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 - 3x_1x_3y_3^2y_4y_5 - x_1x_4y_3^3y_5 + \\
& x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 - 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 + x_4x_5y_1y_3^3 + y_1y_3^3y_4y_5) + b_{1,0,0,1,-1,0,-1,0,-1,0}^r(x_2^2 + \\
& y_2^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) + b_{1,0,0,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) + b_{1,0,0,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 + \\
& x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) + \\
& b_{1,0,1,0,-2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 - 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + \\
& x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 + 2x_1x_3x_5^2y_2y_3 - 2x_1x_3y_2y_3y_5^2 - 2x_1x_5y_2y_3^2y_5 + \\
& 2x_2x_3^2x_5y_1y_5 + 2x_2x_3x_5^2y_1y_3 - 2x_2x_3y_1y_3y_5^2 - 2x_2x_5y_1y_3^2y_5 - x_3^2x_5^2y_1y_2 + \\
& x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 + x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) + \\
& b_{1,0,1,0,-2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 + 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + \\
& x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 + 2x_1x_3x_4^2y_2y_3 - 2x_1x_3y_2y_3y_4^2 + 2x_1x_4y_2y_3^2y_4 - \\
& 2x_2x_3^2x_4y_1y_4 + 2x_2x_3x_4^2y_1y_3 - 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 - x_3^2x_4^2y_1y_2 + \\
& x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 + x_4^2y_1y_2y_3^2 - y_1y_2y_3^2y_4^2) + \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 - 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + \\
& x_1x_2y_4^2y_5^2 + 2x_1x_4^2x_5y_2y_5 + 2x_1x_4x_5^2y_2y_4 - 2x_1x_4y_2y_4y_5^2 - 2x_1x_5y_2y_4^2y_5 + \\
& 2x_2x_4^2x_5y_1y_5 + 2x_2x_4x_5^2y_1y_4 - 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 - x_4^2x_5^2y_1y_2 + \\
& x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 + x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) + b_{1,0,1,0,0,0,0,0,0,2}^r(x_5^2 + \\
& y_5^2)^2(x_1x_2 - y_1y_2) + b_{1,0,1,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) + b_{1,0,1,0,0,0,0,2,0,0}^r(x_4^2 + \\
& y_4^2)^2(x_1x_2 - y_1y_2) + b_{1,0,1,0,0,0,2,0,2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 - 4x_1x_2x_4x_5y_4y_5 - \\
& x_1x_2x_5^2y_4^2 + x_1x_2y_4^2y_5^2 - 2x_1x_4^2x_5y_2y_5 - 2x_1x_4x_5^2y_2y_4 + 2x_1x_4y_2y_4y_5^2 + \\
& 2x_1x_5y_2y_4^2y_5 - 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + 2x_2x_4y_1y_4y_5^2 + 2x_2x_5y_1y_4^2y_5 - \\
& x_4^2x_5^2y_1y_2 + x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 + x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) + \\
& b_{1,0,1,0,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) + b_{1,0,1,0,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1x_2 - \\
& y_1y_2) + b_{1,0,1,0,0,2,0,0,0,0,0}^r(x_3^2 + y_3^2)^2(x_1x_2 - y_1y_2) + b_{1,0,1,0,2,0,-2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 + \\
& 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + x_1x_2y_3^2y_4^2 + 2x_1x_3^2x_4y_2y_4 - 2x_1x_3x_4^2y_2y_3 + \\
& 2x_1x_3y_2y_3y_4^2 - 2x_1x_4y_2y_3^2y_4 + 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 - \\
& 2x_2x_4y_1y_3^2y_4 - x_3^2x_4^2y_1y_2 + x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 + x_4^2y_1y_2y_3^2 - \\
& y_1y_2y_3^2y_4^2) + b_{1,0,1,0,2,0,0,0,2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 - 4x_1x_2x_3x_5y_3y_5 - \\
& x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 - 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 + 2x_1x_3y_2y_3y_5^2 + \\
& 2x_1x_5y_2y_3^2y_5 - 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 + 2x_2x_5y_1y_3^2y_5 - \\
& x_3^2x_5^2y_1y_2 + x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 + x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) + \\
& b_{1,0,1,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) + b_{1,0,1,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_1x_2 -
\end{aligned}$$

$$\begin{aligned}
& y_1 y_2) + b_{1,0,1,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_1 x_2 - y_1 y_2) + b_{1,0,1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1 x_2 - \\
& y_1 y_2) + b_{1,0,2,0,-1,0,1,0,-1,0}^r(x_1 x_2^2 x_3 x_4 x_5 + x_1 x_2^2 x_3 y_4 y_5 - x_1 x_2^2 x_4 y_3 y_5 + x_1 x_2^2 x_5 y_3 y_4 + \\
& 2x_1 x_2 x_3 x_4 y_2 y_5 - 2x_1 x_2 x_3 x_5 y_2 y_4 + 2x_1 x_2 x_4 x_5 y_2 y_3 + 2x_1 x_2 y_2 y_3 y_4 y_5 - x_1 x_3 x_4 x_5 y_2^2 - \\
& x_1 x_3 y_2^2 y_4 y_5 + x_1 x_4 y_2^2 y_3 y_5 - x_1 x_5 y_2^2 y_3 y_4 + x_2^2 x_3 x_4 y_1 y_5 - x_2^2 x_3 x_5 y_1 y_4 + \\
& x_2^2 x_4 x_5 y_1 y_3 + x_2^2 y_1 y_3 y_4 y_5 - 2x_2 x_3 x_4 x_5 y_1 y_2 - 2x_2 x_3 y_1 y_2 y_4 y_5 + 2x_2 x_4 y_1 y_2 y_3 y_5 - \\
& 2x_2 x_5 y_1 y_2 y_3 y_4 - x_3 x_4 y_1 y_2^2 y_5 + x_3 x_5 y_1 y_2^2 y_4 - x_4 x_5 y_1 y_2^2 y_3 - y_1 y_2^2 y_3 y_4 y_5) + \\
& b_{1,0,2,0,1,0,-1,0,-1,0}^r(x_1 x_2^2 x_3 x_4 x_5 - x_1 x_2^2 x_3 y_4 y_5 + x_1 x_2^2 x_4 y_3 y_5 + x_1 x_2^2 x_5 y_3 y_4 + \\
& 2x_1 x_2 x_3 x_4 y_2 y_5 + 2x_1 x_2 x_3 x_5 y_2 y_4 - 2x_1 x_2 x_4 x_5 y_2 y_3 + 2x_1 x_2 y_2 y_3 y_4 y_5 - x_1 x_3 x_4 x_5 y_2^2 + \\
& x_1 x_3 y_2^2 y_4 y_5 - x_1 x_4 y_2^2 y_3 y_5 - x_1 x_5 y_2^2 y_3 y_4 + x_2^2 x_3 x_4 y_1 y_5 + x_2^2 x_3 x_5 y_1 y_4 - \\
& x_2^2 x_4 x_5 y_1 y_3 + x_2^2 y_1 y_3 y_4 y_5 - 2x_2 x_3 x_4 x_5 y_1 y_2 + 2x_2 x_3 y_1 y_2 y_4 y_5 - 2x_2 x_4 y_1 y_2 y_3 y_5 - \\
& 2x_2 x_5 y_1 y_2 y_3 y_4 - x_3 x_4 y_1 y_2^2 y_5 - x_3 x_5 y_1 y_2^2 y_4 + x_4 x_5 y_1 y_2^2 y_3 - y_1 y_2^2 y_3 y_4 y_5) + \\
& b_{1,0,2,0,1,0,1,0,1,0}^r(x_1 x_2^2 x_3 x_4 x_5 - x_1 x_2^2 x_3 y_4 y_5 - x_1 x_2^2 x_4 y_3 y_5 - x_1 x_2^2 x_5 y_3 y_4 - \\
& 2x_1 x_2 x_3 x_4 y_2 y_5 - 2x_1 x_2 x_3 x_5 y_2 y_4 - 2x_1 x_2 x_4 x_5 y_2 y_3 + 2x_1 x_2 y_2 y_3 y_4 y_5 - x_1 x_3 x_4 x_5 y_2^2 + \\
& x_1 x_3 y_2^2 y_4 y_5 + x_1 x_4 y_2^2 y_3 y_5 + x_1 x_5 y_2^2 y_3 y_4 - x_2^2 x_3 x_4 y_1 y_5 - x_2^2 x_3 x_5 y_1 y_4 - \\
& x_2^2 x_4 x_5 y_1 y_3 + x_2^2 y_1 y_3 y_4 y_5 - 2x_2 x_3 x_4 x_5 y_1 y_2 + 2x_2 x_3 y_1 y_2 y_4 y_5 + 2x_2 x_4 y_1 y_2 y_3 y_5 + \\
& 2x_2 x_5 y_1 y_2 y_3 y_4 + x_3 x_4 y_1 y_2^2 y_5 + x_3 x_5 y_1 y_2^2 y_4 + x_4 x_5 y_1 y_2^2 y_3 - y_1 y_2^2 y_3 y_4 y_5) + \\
& b_{1,0,3,0,0,0,0,0,-2,0}^r(x_1 x_2^3 x_5^2 - x_1 x_2^3 y_5^2 + 6x_1 x_2^2 x_5 y_2 y_5 - 3x_1 x_2 x_5^2 y_2^2 + 3x_1 x_2 y_2^2 y_5^2 - \\
& 2x_1 x_5 y_2^3 y_5 + 2x_2^3 x_5 y_1 y_5 - 3x_2^2 x_5^2 y_1 y_2 + 3x_2^2 y_1 y_2 y_5^2 - 6x_2 x_5 y_1 y_2^2 y_5 + \\
& x_5^2 y_1 y_2^3 - y_1 y_2^3 y_5^2) + b_{1,0,3,0,0,0,2,0,0,0}^r(x_1 x_2^3 x_4^2 - x_1 x_2^3 y_4^2 - 6x_1 x_2^2 x_4 y_2 y_4 - \\
& 3x_1 x_2 x_4^2 y_2^2 + 3x_1 x_2 y_2^2 y_4^2 + 2x_1 x_4 y_2^3 y_4 - 2x_2^3 x_4 y_1 y_4 - 3x_2^2 x_4^2 y_1 y_2 + \\
& 3x_2^2 y_1 y_2 y_4^2 + 6x_2 x_4 y_1 y_2^2 y_4 + x_4^2 y_1 y_2^3 - y_1 y_2^3 y_4^2) + b_{1,0,3,0,2,0,0,0,0,0}^r(x_1 x_2^3 x_3^2 - \\
& x_1 x_2^3 y_3^2 - 6x_1 x_2^2 x_3 y_2 y_3 - 3x_1 x_2 x_3^2 y_2^2 + 3x_1 x_2 y_2^2 y_3^2 + 2x_1 x_3 y_2^3 y_3 - \\
& 2x_2^3 x_3 y_1 y_3 - 3x_2^2 x_3^2 y_1 y_2 + 3x_2^2 y_1 y_2 y_3^2 + 6x_2 x_3 y_1 y_2^2 y_3 + x_3^2 y_1 y_2^3 - y_1 y_2^3 y_3^2) + \\
& b_{1,1,-1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1 x_2 x_3^2 - x_1 x_2 y_3^2 - 2x_1 x_3 y_2 y_3 + 2x_2 x_3 y_1 y_3 + x_3^2 y_1 y_2 - \\
& y_1 y_2 y_3^2) + b_{1,1,-1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_1 x_2 x_4^2 - x_1 x_2 y_4^2 - 2x_1 x_4 y_2 y_4 + 2x_2 x_4 y_1 y_4 + \\
& x_4^2 y_1 y_2 - y_1 y_2 y_4^2) + b_{1,1,-1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1 x_2 x_5^2 - x_1 x_2 y_5^2 + 2x_1 x_5 y_2 y_5 - \\
& 2x_2 x_5 y_1 y_5 + x_5^2 y_1 y_2 - y_1 y_2 y_5^2) + b_{1,1,0,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1 x_3 x_4 x_5 - x_1 x_3 y_4 y_5 - \\
& x_1 x_4 y_3 y_5 - x_1 x_5 y_3 y_4 + x_3 x_4 y_1 y_5 + x_3 x_5 y_1 y_4 + x_4 x_5 y_1 y_3 - y_1 y_3 y_4 y_5) + b_{1,1,0,0,-1,0,1,0,1,0}^r(x_1^2 + \\
& y_1^2)(x_1 x_3 x_4 x_5 - x_1 x_3 y_4 y_5 + x_1 x_4 y_3 y_5 + x_1 x_5 y_3 y_4 - x_3 x_4 y_1 y_5 - x_3 x_5 y_1 y_4 + x_4 x_5 y_1 y_3 - \\
& y_1 y_3 y_4 y_5) + b_{1,1,0,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1 x_3 x_4 x_5 + x_1 x_3 y_4 y_5 - x_1 x_4 y_3 y_5 + x_1 x_5 y_3 y_4 - \\
& x_3 x_4 y_1 y_5 + x_3 x_5 y_1 y_4 - x_4 x_5 y_1 y_3 - y_1 y_3 y_4 y_5) + b_{1,1,1,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1 x_2 - \\
& y_1 y_2) + b_{1,1,1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1 x_2 - y_1 y_2) + b_{1,1,1,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2)(x_1 x_2 - y_1 y_2) + b_{1,1,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_1 x_2 - y_1 y_2) + b_{1,2,1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)^2(x_1 x_2 - y_1 y_2) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^r(x_1^2 x_2 x_3 x_4 x_5 - x_1^2 x_2 x_3 y_4 y_5 - x_1^2 x_2 x_4 y_3 y_5 - \\
& x_1^2 x_2 x_5 y_3 y_4 - x_1^2 x_3 x_4 y_2 y_5 - x_1^2 x_3 x_5 y_2 y_4 - x_1^2 x_4 x_5 y_2 y_3 + x_1^2 y_2 y_3 y_4 y_5 + \\
& 2x_1 x_2 x_3 x_4 y_1 y_5 + 2x_1 x_2 x_3 x_5 y_1 y_4 + 2x_1 x_2 x_4 x_5 y_1 y_3 - 2x_1 x_2 y_1 y_3 y_4 y_5 + \\
& 2x_1 x_3 x_4 x_5 y_1 y_2 - 2x_1 x_3 y_1 y_2 y_4 y_5 - 2x_1 x_4 y_1 y_2 y_3 y_5 - 2x_1 x_5 y_1 y_2 y_3 y_4 - x_2 x_3 x_4 x_5 y_1^2 + \\
& x_2 x_3 y_1^2 y_4 y_5 + x_2 x_4 y_1^2 y_3 y_5 + x_2 x_5 y_1^2 y_3 y_4 + x_3 x_4 y_1^2 y_2 y_5 + x_3 x_5 y_1^2 y_2 y_4 + \\
& x_4 x_5 y_1^2 y_2 y_3 - y_1^2 y_2 y_3 y_4 y_5) + b_{2,0,-1,0,-1,0,1,0,1,0}^r(x_1^2 x_2 x_3 x_4 x_5 - x_1^2 x_2 x_3 y_4 y_5 + \\
& x_1^2 x_2 x_4 y_3 y_5 + x_1^2 x_2 x_5 y_3 y_4 + x_1^2 x_3 x_4 y_2 y_5 + x_1^2 x_3 x_5 y_2 y_4 - x_1^2 x_4 x_5 y_2 y_3 + \\
& x_1^2 y_2 y_3 y_4 y_5 - 2x_1 x_2 x_3 x_4 y_1 y_5 - 2x_1 x_2 x_3 x_5 y_1 y_4 + 2x_1 x_2 x_4 x_5 y_1 y_3 - 2x_1 x_2 y_1 y_3 y_4 y_5 + \\
& 2x_1 x_3 x_4 x_5 y_1 y_2 - 2x_1 x_3 y_1 y_2 y_4 y_5 + 2x_1 x_4 y_1 y_2 y_3 y_5 + 2x_1 x_5 y_1 y_2 y_3 y_4 - x_2 x_3 x_4 x_5 y_1^2 +
\end{aligned}$$

$$\begin{aligned}
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + b_{2,0,-1,0,1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + b_{2,0,-2,0,-2,0,0,0,0,0}^r(x_1x_2x_3 - x_1x_2y_3 - x_1x_3y_2 - x_1y_2y_3 + \\
& x_2x_3y_1 + x_2y_1y_3 + x_3y_1y_2 - y_1y_2y_3)(x_1x_2x_3 + x_1x_2y_3 + x_1x_3y_2 - x_1y_2y_3 - x_2x_3y_1 + \\
& x_2y_1y_3 + x_3y_1y_2 + y_1y_2y_3) + b_{2,0,-2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 - x_1x_2y_4 - x_1x_4y_2 - x_1y_2y_4 + x_2x_4y_1 + \\
& x_2y_1y_4 + x_4y_1y_2 - y_1y_2y_4)(x_1x_2x_4 + x_1x_2y_4 + x_1x_4y_2 - x_1y_2y_4 - x_2x_4y_1 + x_2y_1y_4 + \\
& x_4y_1y_2 + y_1y_2y_4) + b_{2,0,-2,0,0,0,0,2,0}^r(x_1x_2x_5 - x_1x_2y_5 + x_1x_5y_2 + x_1y_2y_5 - x_2x_5y_1 - x_2y_1y_5 + \\
& x_5y_1y_2 - y_1y_2y_5)(x_1x_2x_5 + x_1x_2y_5 - x_1x_5y_2 + x_1y_2y_5 + x_2x_5y_1 - x_2y_1y_5 + x_5y_1y_2 + \\
& y_1y_2y_5) + b_{2,0,0,0,-2,0,0,0,-2,0}^r(x_1x_3x_5 - x_1x_3y_5 - x_1x_5y_3 - x_1y_3y_5 + x_3x_5y_1 + x_3y_1y_5 + x_5y_1y_3 - \\
& y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 + x_1x_5y_3 - x_1y_3y_5 - x_3x_5y_1 + x_3y_1y_5 + x_5y_1y_3 + y_1y_3y_5) + \\
& b_{2,0,0,0,-2,0,2,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 + x_1x_4y_3 + x_1y_3y_4 - x_3x_4y_1 - x_3y_1y_4 + x_4y_1y_3 - \\
& y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 - x_1x_4y_3 + x_1y_3y_4 + x_3x_4y_1 - x_3y_1y_4 + x_4y_1y_3 + y_1y_3y_4) + \\
& b_{2,0,0,0,0,0,-2,0,-2,0}^r(x_1x_4x_5 - x_1x_4y_5 - x_1x_5y_4 - x_1y_4y_5 + x_4x_5y_1 + x_4y_1y_5 + x_5y_1y_4 - \\
& y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 + x_1x_5y_4 - x_1y_4y_5 - x_4x_5y_1 + x_4y_1y_5 + x_5y_1y_4 + y_1y_4y_5) + \\
& b_{2,0,0,0,0,0,0,0,2}^r(x_1 - y_1)(x_1 + y_1)(x_5^2 + y_5^2)^2 + b_{2,0,0,0,0,0,0,1,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) + b_{2,0,0,0,0,0,0,2,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2)^2 + b_{2,0,0,0,0,0,0,2,0,2,0}^r(x_1x_4x_5 - x_1x_4y_5 - x_1x_5y_4 - \\
& x_1y_4y_5 - x_4x_5y_1 - x_4y_1y_5 - x_5y_1y_4 + y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 + x_1x_5y_4 - x_1y_4y_5 + \\
& x_4x_5y_1 - x_4y_1y_5 - x_5y_1y_4 - y_1y_4y_5) + b_{2,0,0,0,0,1,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2)(x_5^2 + y_5^2) + \\
& b_{2,0,0,0,0,1,0,1,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + b_{2,0,0,0,0,2,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_3^2 + \\
& y_3^2)^2 + b_{2,0,0,0,2,0,-2,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 + x_1x_4y_3 + x_1y_3y_4 + x_3x_4y_1 + x_3y_1y_4 - x_4y_1y_3 + \\
& y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 - x_1x_4y_3 + x_1y_3y_4 - x_3x_4y_1 + x_3y_1y_4 - x_4y_1y_3 - y_1y_3y_4) + \\
& b_{2,0,0,0,2,0,0,0,2,0}^r(x_1x_3x_5 - x_1x_3y_5 - x_1x_5y_3 - x_1y_3y_5 - x_3x_5y_1 - x_3y_1y_5 - x_5y_1y_3 + \\
& y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 + x_1x_5y_3 - x_1y_3y_5 + x_3x_5y_1 - x_3y_1y_5 - x_5y_1y_3 - y_1y_3y_5) + \\
& b_{2,0,0,1,0,0,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2)(x_5^2 + y_5^2) + b_{2,0,0,1,0,0,0,1,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + \\
& y_2^2)(x_4^2 + y_4^2) + b_{2,0,0,1,0,1,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2)(x_3^2 + y_3^2) + b_{2,0,0,2,0,0,0,0,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_2^2 + y_2^2)^2 + b_{2,0,1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 + \\
& x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 + \\
& 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + b_{2,0,1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + b_{2,0,1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 - x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 +
\end{aligned}$$

$$\begin{aligned}
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) + b_{2,0,2,0,0,0,0,-2,0}^r(x_1x_2x_5 - x_1x_2y_5 + x_1x_5y_2 + x_1y_2y_5 + \\
& x_2x_5y_1 + x_2y_1y_5 - x_5y_1y_2 + y_1y_2y_5)(x_1x_2x_5 + x_1x_2y_5 - x_1x_5y_2 + x_1y_2y_5 - x_2x_5y_1 + \\
& x_2y_1y_5 - x_5y_1y_2 - y_1y_2y_5) + b_{2,0,2,0,0,0,2,0,0,0}^r(x_1x_2x_4 - x_1x_2y_4 - x_1x_4y_2 - x_1y_2y_4 - x_2x_4y_1 - \\
& x_2y_1y_4 - x_4y_1y_2 + y_1y_2y_4)(x_1x_2x_4 + x_1x_2y_4 + x_1x_4y_2 - x_1y_2y_4 + x_2x_4y_1 - x_2y_1y_4 - \\
& x_4y_1y_2 - y_1y_2y_4) + b_{2,0,2,0,2,0,0,0,0,0}^r(x_1x_2x_3 - x_1x_2y_3 - x_1x_3y_2 - x_1y_2y_3 - x_2x_3y_1 - x_2y_1y_3 - \\
& x_3y_1y_2 + y_1y_2y_3)(x_1x_2x_3 + x_1x_2y_3 + x_1x_3y_2 - x_1y_2y_3 + x_2x_3y_1 - x_2y_1y_3 - x_3y_1y_2 - \\
& y_1y_2y_3) + b_{2,1,0,0,0,0,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_5^2 + y_5^2) + b_{2,1,0,0,0,0,0,1,0,0}^r(x_1 - y_1)(x_1 + \\
& y_1)(x_1^2 + y_1^2)(x_4^2 + y_4^2) + b_{2,1,0,0,0,1,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_3^2 + y_3^2) + \\
& b_{2,1,0,1,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_2^2 + y_2^2) + b_{2,2,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + \\
& y_1^2)^2 + b_{3,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) + \\
& b_{3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) + b_{3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) + b_{3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^3x_2 + 3x_1^2y_1y_2 - \\
& 3x_1x_2y_1^2 - y_1^3y_2) + b_{3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4x_5 + x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 + x_1^3x_5y_3y_4 + \\
& 3x_1^2x_3x_4y_1y_5 - 3x_1^2x_3x_5y_1y_4 + 3x_1^2x_4x_5y_1y_3 + 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 - \\
& 3x_1x_3y_1^2y_4y_5 + 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 - x_3x_4y_1^3y_5 + x_3x_5y_1^3y_4 - \\
& x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) + b_{3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 + x_1^3x_4y_3y_5 + \\
& x_1^3x_5y_3y_4 + 3x_1^2x_3x_4y_1y_5 + 3x_1^2x_3x_5y_1y_4 - 3x_1^2x_4x_5y_1y_3 + 3x_1^2y_1y_3y_4y_5 - \\
& 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 - 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 - x_3x_4y_1^3y_5 - \\
& x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) + b_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 - \\
& x_1^3x_4y_3y_5 - x_1^3x_5y_3y_4 - 3x_1^2x_3x_4y_1y_5 - 3x_1^2x_3x_5y_1y_4 - 3x_1^2x_4x_5y_1y_3 + \\
& 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 + 3x_1x_4y_1^2y_3y_5 + 3x_1x_5y_1^2y_3y_4 + \\
& x_3x_4y_1^3y_5 + x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) + b_{3,0,1,0,0,0,0,0,-2,0}^r(x_1^3x_2x_5^2 - \\
& x_1^3x_2y_5^2 + 2x_1^3x_5y_2y_5 + 6x_1^2x_2x_5y_1y_5 - 3x_1^2x_5^2y_1y_2 + 3x_1^2y_1y_2y_5^2 - \\
& 3x_1x_2x_5^2y_1^2 + 3x_1x_2y_1^2y_5^2 - 6x_1x_5y_1^2y_2y_5 - 2x_2x_5y_1^3y_5 + x_5^3y_1^3y_2 - y_1^3y_2y_5^2) + \\
& b_{3,0,1,0,0,0,2,0,0,0}^r(x_1^3x_2x_4^2 - x_1^3x_2y_4^2 - 2x_1^3x_4y_2y_4 - 6x_1^2x_2x_4y_1y_4 - 3x_1^2x_4^2y_1y_2 + \\
& 3x_1^2y_1y_2y_4^2 - 3x_1x_2x_4^2y_1^2 + 3x_1x_2y_1^2y_4^2 + 6x_1x_4y_1^2y_2y_4 + 2x_2x_4y_1^3y_4 + \\
& x_4^2y_1^3y_2 - y_1^3y_2y_4^2) + b_{3,0,1,0,2,0,0,0,0,0}^r(x_1^3x_2x_3^2 - x_1^3x_2y_3^2 - 2x_1^3x_3y_2y_3 - \\
& 6x_1^2x_2x_3y_1y_3 - 3x_1^2x_3^2y_1y_2 + 3x_1^2y_1y_2y_3^2 - 3x_1x_2x_3^2y_1^2 + 3x_1x_2y_1^2y_3^2 + \\
& 6x_1x_3y_1^2y_2y_3 + 2x_2x_3y_1^3y_3 + x_3^2y_1^3y_2 - y_1^3y_2y_3^2) + b_{3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^3x_2 + \\
& 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) + b_{4,0,-2,0,0,0,0,0,0,0}^r(x_1^2x_2 - x_1^2y_2 + 2x_1x_2y_1 + 2x_1y_1y_2 - x_2y_1^2 + \\
& y_1^2y_2)(x_1^2x_2 + x_1^2y_2 - 2x_1x_2y_1 + 2x_1y_1y_2 - x_2y_1^2 - y_1^2y_2) + b_{4,0,0,0,0,0,0,0,-2,0}^r(x_1^2x_5 - \\
& x_1^2y_5 + 2x_1x_5y_1 + 2x_1y_1y_5 - x_5y_1^2 + y_1^2y_5)(x_1^2x_5 + x_1^2y_5 - 2x_1x_5y_1 + 2x_1y_1y_5 - x_5y_1^2 - \\
& y_1^2y_5) + b_{4,0,0,0,0,0,2,0,0,0}^r(x_1^2x_4 - x_1^2y_4 - 2x_1x_4y_1 - 2x_1y_1y_4 - x_4y_1^2 + y_1^2y_4)(x_1^2x_4 + \\
& x_1^2y_4 + 2x_1x_4y_1 - 2x_1y_1y_4 - x_4y_1^2 - y_1^2y_4) + b_{4,0,0,0,2,0,0,0,0,0}^r(x_1^2x_3 - x_1^2y_3 - 2x_1x_3y_1 - \\
& 2x_1y_1y_3 - x_3y_1^2 + y_1^2y_3)(x_1^2x_3 + x_1^2y_3 + 2x_1x_3y_1 - 2x_1y_1y_3 - x_3y_1^2 - y_1^2y_3)
\end{aligned}$$

$$\begin{aligned}
H_{XY}^{(6)} = & b_{-1,0,-1,0,-2,0,-2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 + \\
& x_1x_3^2x_4^2y_2 - x_1x_3^2y_2y_4^2 - 4x_1x_3x_4y_2y_3y_4 - x_1x_4^2y_2y_3^2 + x_1y_2y_3^2y_4^2 + \\
& x_2x_3^2x_4^2y_1 - x_2x_3^2y_1y_4^2 - 4x_2x_3x_4y_1y_3y_4 - x_2x_4^2y_1y_3^2 + x_2y_1y_3^2y_4^2 - \\
& 2x_3^2x_4y_1y_2y_4 - 2x_3x_4^2y_1y_2y_3 + 2x_3y_1y_2y_3y_4^2 + 2x_4y_1y_2y_3^2y_4) - \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r(2x_1x_2x_3^2x_5y_5 - 2x_1x_2x_3x_5^2y_3 + 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 - 4x_1x_3x_5y_2y_3y_5 + x_1x_5^2y_2y_3^2 - x_1y_2y_3^2y_5^2 - \\
& x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 - 4x_2x_3x_5y_1y_3y_5 + x_2x_5^2y_1y_3^2 - x_2y_1y_3^2y_5^2 - \\
& 2x_3^2x_5y_1y_2y_5 + 2x_3x_5^2y_1y_2y_3 - 2x_3y_1y_2y_3y_5^2 + 2x_5y_1y_2y_3^2y_5) + \\
& b_{-1,0,-1,0,-4,0,0,0,0}^r(4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 + x_1x_3^4y_2 - 6x_1x_3^2y_2y_3^2 + x_1y_2y_3^4 + \\
& x_2x_3^4y_1 - 6x_2x_3^2y_1y_3^2 + x_2y_1y_3^4 - 4x_3^3y_1y_2y_3 + 4x_3y_1y_2y_3^3) - \\
& b_{-1,0,-1,0,0,0,-2,0,2,0}^r(2x_1x_2x_4^2x_5y_5 - 2x_1x_2x_4x_5^2y_4 + 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 - \\
& x_1x_4^2x_5^2y_2 + x_1x_4^2y_2y_5^2 - 4x_1x_4x_5y_2y_4y_5 + x_1x_5^2y_2y_4^2 - x_1y_2y_4^2y_5^2 - \\
& x_2x_4^2x_5^2y_1 + x_2x_4^2y_1y_5^2 - 4x_2x_4x_5y_1y_4y_5 + x_2x_5^2y_1y_4^2 - x_2y_1y_4^2y_5^2 - \\
& 2x_4^2x_5y_1y_2y_5 + 2x_4x_5^2y_1y_2y_4 - 2x_4y_1y_2y_4y_5^2 + 2x_5y_1y_2y_4^2y_5) + \\
& b_{-1,0,-1,0,0,0,-4,0,0,0}^r(4x_1x_2x_4^3y_4 - 4x_1x_2x_4y_4^3 + x_1x_4^4y_2 - 6x_1x_4^2y_2y_4^2 + x_1y_2y_4^4 + \\
& x_2x_4^4y_1 - 6x_2x_4^2y_1y_4^2 + x_2y_1y_4^4 - 4x_4^3y_1y_2y_4 + 4x_4y_1y_2y_4^3) + b_{-1,0,-1,0,0,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) - \\
& b_{-1,0,-1,0,0,0,0,0,4,0}^r(4x_1x_2x_5^3y_5 - 4x_1x_2x_5y_5^3 - x_1x_5^4y_2 + 6x_1x_5^2y_2y_5^2 - x_1y_2y_5^4 - \\
& x_2x_5^4y_1 + 6x_2x_5^2y_1y_5^2 - x_2y_1y_5^4 - 4x_5^3y_1y_2y_5 + 4x_5y_1y_2y_5^3) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) - \\
& b_{-1,0,-1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - \\
& 2x_4y_1y_2y_4) - b_{-1,0,-1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - x_2x_4^2y_1 + \\
& x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + \\
& x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) - b_{-1,0,-1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + \\
& x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) - b_{-1,0,-1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_3y_3 - \\
& x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) - b_{-1,0,-1,0,2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) - \\
& b_{-1,0,-1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - \\
& 2x_3y_1y_2y_3) + b_{-1,0,-1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 - 2x_5y_1y_2y_5) - b_{-1,0,-1,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - \\
& x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) - b_{-1,0,-1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + \\
& x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,0,-2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - \\
& x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - \\
& x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - \\
& 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 - \\
& x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + \\
& x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - \\
& x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + \\
& x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) - b_{-1,0,-2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + \\
& x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + \\
& x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - \\
& x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(3x_1x_2^2y_2 -
\end{aligned}$$

$$\begin{aligned}
& x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + b_{-1,0,-3,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - \\
& 3x_2y_1y_2^2) + b_{-1,0,-3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + \\
& b_{-1,0,-3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) - b_{-1,0,0,0,-1,0,-1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + \\
& x_5y_1y_3y_4) - b_{-1,0,0,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - \\
& x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,0,-1,0,-3,0,-1,0}^r(x_1x_3x_4^3y_5 + \\
& 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 - x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 - 3x_1x_4^2y_3y_4y_5 - \\
& 3x_1x_4x_5y_3y_4^2 + x_1y_3y_4^3y_5 + x_3x_4^3x_5y_1 - 3x_3x_4^2y_1y_4y_5 - 3x_3x_4x_5y_1y_4^2 + \\
& x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 - 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3) + \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - x_1x_3x_5^3y_4 + 3x_1x_3x_5y_4y_5^2 + x_1x_4x_5^3y_3 - \\
& 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 + x_3x_4x_5^3y_1 - 3x_3x_4x_5y_1y_5^2 + \\
& 3x_3x_5^2y_1y_4y_5 - x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 + x_5^3y_1y_3y_4 - \\
& 3x_5y_1y_3y_4y_5^2) - b_{-1,0,0,0,-1,0,1,0,3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 + x_1x_3x_5^3y_4 - \\
& 3x_1x_3x_5y_4y_5^2 - x_1x_4x_5^3y_3 + 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 - \\
& x_3x_4x_5^3y_1 + 3x_3x_4x_5y_1y_5^2 + 3x_3x_5^2y_1y_4y_5 - x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + \\
& x_4y_1y_3y_5^3 - x_5^3y_1y_3y_4 + 3x_5y_1y_3y_4y_5^2) + b_{-1,0,0,0,-1,0,3,0,-1,0}^r(x_1x_3x_4^3y_5 - \\
& 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 + x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 + 3x_1x_4^2y_3y_4y_5 - \\
& 3x_1x_4x_5y_3y_4^2 - x_1y_3y_4^3y_5 + x_3x_4^3x_5y_1 + 3x_3x_4^2y_1y_4y_5 - 3x_3x_4x_5y_1y_4^2 - \\
& x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 + 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 - x_5y_1y_3y_4^3) - \\
& b_{-1,0,0,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,0,-3,0,-1,0,-1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 + \\
& 3x_1x_2^3x_4x_5y_3 - 3x_1x_2^3y_3y_4y_5 - 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 + \\
& x_1y_3^3y_4y_5 + x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 - 3x_3^2x_4y_1y_3y_5 - 3x_3^2x_5y_1y_3y_4 - \\
& 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 + x_4y_1y_3^3y_5 + x_5y_1y_3^3y_4) - b_{-1,0,0,0,-3,0,1,0,1,0}^r(x_1x_3^3x_4y_5 + \\
& x_1x_3^3x_5y_4 - 3x_1x_2^3x_4x_5y_3 + 3x_1x_2^3y_3y_4y_5 - 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 + \\
& x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 + x_3^3y_1y_4y_5 - 3x_3^2x_4y_1y_3y_5 - 3x_3^2x_5y_1y_3y_4 + \\
& 3x_3x_4x_5y_1y_3^2 - 3x_3y_1y_3^2y_4y_5 + x_4y_1y_3^3y_5 + x_5y_1y_3^3y_4) + \\
& b_{-1,0,0,0,1,0,-1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 + x_1x_3x_5^3y_4 - 3x_1x_3x_5y_4y_5^2 - x_1x_4x_5^3y_3 + \\
& 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 + x_3x_4x_5^3y_1 - 3x_3x_4x_5y_1y_5^2 - \\
& 3x_3x_5^2y_1y_4y_5 + x_3y_1y_4y_5^3 + 3x_4x_5^2y_1y_3y_5 - x_4y_1y_3y_5^3 + x_5^3y_1y_3y_4 - \\
& 3x_5y_1y_3y_4y_5^2) - b_{-1,0,0,0,1,0,-1,0,3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - x_1x_3x_5^3y_4 + \\
& 3x_1x_3x_5y_4y_5^2 + x_1x_4x_5^3y_3 - 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 - \\
& x_3x_4x_5^3y_1 + 3x_3x_4x_5y_1y_5^2 - 3x_3x_5^2y_1y_4y_5 + x_3y_1y_4y_5^3 + 3x_4x_5^2y_1y_3y_5 - \\
& x_4y_1y_3y_5^3 - x_5^3y_1y_3y_4 + 3x_5y_1y_3y_4y_5^2) - b_{-1,0,0,0,1,0,-3,0,1,0}^r(x_1x_3x_4^3y_5 - 3x_1x_3x_4^2x_5y_4 - \\
& 3x_1x_3x_4y_4^2y_5 + x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 + 3x_1x_4^2y_3y_4y_5 - 3x_1x_4x_5y_3y_4^2 - \\
& x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 - 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 + x_3y_1y_4^3y_5 + x_4^3y_1y_3y_5 - \\
& 3x_4^2x_5y_1y_3y_4 - 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3) + b_{-1,0,0,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) - b_{-1,0,0,0,1,0,3,0,1,0}^r(x_1x_3x_4^3y_5 + 3x_1x_3x_4^2x_5y_4 - \\
& 3x_1x_3x_4y_4^2y_5 - x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 - 3x_1x_4^2y_3y_4y_5 - 3x_1x_4x_5y_3y_4^2 + \\
& x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 + 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 - x_3y_1y_4^3y_5 + x_4^3y_1y_3y_5 + \\
& x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3)
\end{aligned}$$



$$\begin{aligned}
& 3x_4^2x_5y_1y_3y_4 - 3x_4y_1y_3y_4^2y_5 - x_5y_1y_3y_4^3) + b_{-1,0,0,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + \\
& b_{-1,0,0,0,3,0,-1,0,-1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 - 3x_1x_3^2x_4x_5y_3 + 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 + x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 + x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 + \\
& 3x_3^2x_4y_1y_3y_5 + 3x_3^2x_5y_1y_3y_4 - 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 - \\
& x_5y_1y_3^3y_4) - b_{-1,0,0,0,3,0,1,0,1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 + 3x_1x_3^2x_4x_5y_3 - 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 + x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 + x_3^3y_1y_4y_5 + \\
& 3x_3^2x_4y_1y_3y_5 + 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 - 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 - \\
& x_5y_1y_3^3y_4) - b_{-1,0,0,1,-1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - \\
& x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + \\
& b_{-1,0,1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + \\
& 2x_3y_1y_2y_3) + b_{-1,0,1,0,-2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - \\
& x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{-1,0,1,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + \\
& x_2x_3^2y_1 - x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{-1,0,1,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + \\
& x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{-1,0,1,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_4y_4 - \\
& x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{-1,0,1,0,0,0,0,0,-4,0}^r(4x_1x_2x_5^3y_5 - \\
& 4x_1x_2x_5y_5^3 - x_1x_5^4y_2 + 6x_1x_5^2y_2y_5^2 - x_1y_2y_5^4 + x_2x_5^4y_1 - 6x_2x_5^2y_1y_5^2 + \\
& x_2y_1y_5^4 + 4x_5^3y_1y_2y_5 - 4x_5y_1y_2y_5^3) - b_{-1,0,1,0,0,0,0,0,2,1}^r(x_5^2 + y_5^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - \\
& x_1y_2y_5^2 - x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) - b_{-1,0,1,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(2x_1x_2x_5y_5 + \\
& x_1x_5^2y_2 - x_1y_2y_5^2 - x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,0,1,0,0,0,2,0,-2,0}^r(2x_1x_2x_4^2x_5y_5 - \\
& 2x_1x_2x_4x_5^2y_4 + 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 - x_1x_4^2x_5^2y_2 + x_1x_4^2y_2y_5^2 - \\
& 4x_1x_4x_5y_2y_4y_5 + x_1x_5^2y_2y_4^2 - x_1y_2y_4^2y_5^2 + x_2x_4^2x_5^2y_1 - x_2x_4^2y_1y_5^2 + \\
& 4x_2x_4x_5y_1y_4y_5 - x_2x_5^2y_1y_4^2 + x_2y_1y_4^2y_5^2 + 2x_4^2x_5y_1y_2y_5 - 2x_4x_5^2y_1y_2y_4 + \\
& 2x_4y_1y_2y_4y_5^2 - 2x_5y_1y_2y_4^2y_5) - b_{-1,0,1,0,0,0,4,0,0,0}^r(4x_1x_2x_4^3y_4 - 4x_1x_2x_4y_4^3 + x_1x_4^4y_2 - \\
& 6x_1x_4^2y_2y_4^2 + x_1y_2y_4^4 - x_2x_4^4y_1 + 6x_2x_4^2y_1y_4^2 - x_2y_1y_4^4 + 4x_4^3y_1y_2y_4 - \\
& 4x_4y_1y_2y_4^3) + b_{-1,0,1,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - \\
& x_2y_1y_4^2 + 2x_4y_1y_2y_4) - b_{-1,0,1,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 - \\
& x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,0,1,0,2,0,0,0,-2,0}^r(2x_1x_2x_3^2x_5y_5 - 2x_1x_2x_3x_5^2y_3 + \\
& 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 - x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 - 4x_1x_3x_5y_2y_3y_5 + \\
& x_1x_5^2y_2y_3^2 - x_1y_2y_3^2y_5^2 + x_2x_3^2x_5^2y_1 - x_2x_3^2y_1y_5^2 + 4x_2x_3x_5y_1y_3y_5 - \\
& x_2x_5^2y_1y_3^2 + x_2y_1y_3^2y_5^2 + 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 - \\
& 2x_5y_1y_2y_3^2y_5) - b_{-1,0,1,0,2,0,2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - \\
& 2x_1x_2x_4y_3^2y_4 + x_1x_3^2x_4^2y_2 - x_1x_3^2y_2y_4^2 - 4x_1x_3x_4y_2y_3y_4 - x_1x_4^2y_2y_3^2 + \\
& x_1y_2y_3^2y_4^2 - x_2x_3^2x_4^2y_1 + x_2x_3^2y_1y_4^2 + 4x_2x_3x_4y_1y_3y_4 + x_2x_4^2y_1y_3^2 - \\
& x_2y_1y_3^2y_4^2 + 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - 2x_3y_1y_2y_3y_4^2 - 2x_4y_1y_2y_3^2y_4) - \\
& b_{-1,0,1,0,4,0,0,0,0,0}^r(4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 + x_1x_3^4y_2 - 6x_1x_3^2y_2y_3^2 + x_1y_2y_3^4 - \\
& x_2x_3^4y_1 + 6x_2x_3^2y_1y_3^2 - x_2y_1y_3^4 + 4x_3^3y_1y_2y_3 - 4x_3y_1y_2y_3^3) + b_{-1,0,1,1,-2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + 2x_3y_1y_2y_3) + \\
& b_{-1,0,1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) - b_{-1,0,1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 - x_2x_5^2y_1 + \\
& x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,0,2,0,-1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 -
\end{aligned}$$

$$\begin{aligned}
& x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 + \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) - b_{-1,0,2,0,-1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 + \\
& x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 + \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) - b_{-1,0,2,0,1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 + \\
& x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 + \\
& 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) - b_{-1,0,3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) - \\
& b_{-1,0,3,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) - b_{-1,0,3,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) - b_{-1,0,3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(3x_1x_2^2y_2 - \\
& x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + b_{-1,1,-1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + \\
& x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) - b_{-1,1,-1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + \\
& x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) - b_{-1,1,-1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_3y_3 - \\
& x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,1,-3,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) - b_{-1,1,0,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{-1,1,0,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + b_{-1,1,1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + \\
& x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{-1,1,1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 - \\
& x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + 2x_4y_1y_2y_4) - b_{-1,1,1,0,0,0,0,0,2,0}^r(x_1^2 + \\
& y_1^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 - x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) - \\
& b_{-1,1,3,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + \\
& b_{-2,0,-1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 + \\
& x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 + x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 + \\
& 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - 2x_1x_3x_4y_1y_2y_5 + \\
& 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + x_2x_3x_5y_1^2y_4 - \\
& x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + x_4y_1^2y_2y_3y_5 - \\
& x_5y_1^2y_2y_3y_4) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - x_1^2x_2x_4x_5y_3 + \\
& x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 + x_1^2x_5y_2y_3y_4 + \\
& 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 - x_5y_1^2y_2y_3y_4) - b_{-2,0,-1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 + \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 - x_5y_1^2y_2y_3y_4) + 2b_{-2,0,-2,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + \\
& 2b_{-2,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + 2b_{-2,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2 - \\
& y_1y_2)(x_1y_2 + x_2y_1) + 2b_{-2,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + \\
& 2b_{-2,0,0,0,-2,0,-2,0,0,0}^r(x_1x_3x_4 - x_1y_3y_4 - x_3y_1y_4 - x_4y_1y_3)(x_1x_3y_4 + x_1x_4y_3 + x_3x_4y_1 - y_1y_3y_4) - \\
& 2b_{-2,0,0,0,-2,0,0,0,2,0}^r(x_1x_3x_5 + x_1y_3y_5 + x_3y_1y_5 - x_5y_1y_3)(x_1x_3y_5 - x_1x_5y_3 - x_3x_5y_1 - y_1y_3y_5) + \\
& 2b_{-2,0,0,0,-4,0,0,0,0,0}^r(x_1x_3^2 - x_1y_3^2 - 2x_3y_1y_3)(2x_1x_3y_3 + x_3^2y_1 - y_1y_3^2) - \\
& 2b_{-2,0,0,0,0,0,-2,0,2,0}^r(x_1x_4x_5 + x_1y_4y_5 + x_4y_1y_5 - x_5y_1y_4)(x_1x_4y_5 - x_1x_5y_4 - x_4x_5y_1 - y_1y_4y_5) + \\
& 2b_{-2,0,0,0,0,0,-4,0,0,0}^r(x_1x_4^2 - x_1y_4^2 - 2x_4y_1y_4)(2x_1x_4y_4 + x_4^2y_1 - y_1y_4^2) + 2b_{-2,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - 2b_{-2,0,0,0,0,0,0,0,4,0}^r(x_1x_5^2 - x_1y_5^2 + 2x_5y_1y_5)(2x_1x_5y_5 - x_5^2y_1 + \\
& y_1y_5^2) + 2b_{-2,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - 2b_{-2,0,0,0,0,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) - 2b_{-2,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) + \\
& 2b_{-2,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - 2b_{-2,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_4 + \\
& y_1y_4)(x_1y_4 - x_4y_1) - 2b_{-2,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_3 + y_1y_3)(x_1y_3 - x_3y_1) - \\
& 2b_{-2,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_3 + y_1y_3)(x_1y_3 - x_3y_1) - 2b_{-2,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_3 + \\
& y_1y_3)(x_1y_3 - x_3y_1) + 2b_{-2,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - \\
& 2b_{-2,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) - 2b_{-2,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_3 + \\
& y_1y_3)(x_1y_3 - x_3y_1) - b_{-2,0,1,0,-1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 - x_1^2x_2x_4x_5y_3 - \\
& x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - x_1^2x_5y_2y_3y_4 - \\
& 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{-2,0,1,0,1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 + \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 - x_5y_1^2y_2y_3y_4) + 2b_{-2,0,2,0,-2,0,0,0,0,0}^r(x_1x_2x_3 + x_1y_2y_3 - x_2y_1y_3 + \\
& x_3y_1y_2)(x_1x_2y_3 - x_1x_3y_2 + x_2x_3y_1 + y_1y_2y_3) + 2b_{-2,0,2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 + x_1y_2y_4 - x_2y_1y_4 + \\
& x_4y_1y_2)(x_1x_2y_4 - x_1x_4y_2 + x_2x_4y_1 + y_1y_2y_4) - 2b_{-2,0,2,0,0,0,0,0,2,0}^r(x_1x_2x_5 - x_1y_2y_5 + x_2y_1y_5 + \\
& x_5y_1y_2)(x_1x_2y_5 + x_1x_5y_2 - x_2x_5y_1 + y_1y_2y_5) - 2b_{-2,0,4,0,0,0,0,0,0,0}^r(x_1x_2^2 - x_1y_2^2 + \\
& 2x_2y_1y_2)(2x_1x_2y_2 - x_2^2y_1 + y_1y_2^2) + 2b_{-2,1,-2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + \\
& 2b_{-2,1,0,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - 2b_{-2,1,0,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_4 + \\
& y_1y_4)(x_1y_4 - x_4y_1) - 2b_{-2,1,0,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_3 + y_1y_3)(x_1y_3 - x_3y_1) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^3y_2 + 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - x_2y_1^3) + b_{-3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1^3y_2 + 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - x_2y_1^3) + b_{-3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1^3y_2 + \\
& 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - x_2y_1^3) + b_{-3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^3y_2 + 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - \\
& x_2y_1^3) + b_{-3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4y_5 - x_1^3x_3x_5y_4 + x_1^3x_4x_5y_3 + x_1^3y_3y_4y_5 + \\
& 3x_1^2x_3x_4x_5y_1 + 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 + 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 + \\
& 3x_1x_3x_5y_1^2y_4 - 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 - x_3x_4x_5y_1^3 - x_3y_1^3y_4y_5 + \\
& x_4y_1^3y_3y_5 - x_5y_1^3y_3y_4) + b_{-3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 - x_1^3x_4x_5y_3 + \\
& x_1^3y_3y_4y_5 + 3x_1^2x_3x_4x_5y_1 - 3x_1^2x_3y_1y_4y_5 + 3x_1^2x_4y_1y_3y_5 + 3x_1^2x_5y_1y_3y_4 -
\end{aligned}$$

$$\begin{aligned}
& 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 + 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 - x_3x_4x_5y_1^3 + \\
& x_3y_1^3y_4y_5 - x_4y_1^3y_3y_5 - x_5y_1^3y_3y_4) - b_{-3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 + \\
& x_1^3x_4x_5y_3 - x_1^3y_3y_4y_5 - 3x_1^2x_3x_4x_5y_1 + 3x_1^2x_3y_1y_4y_5 + 3x_1^2x_4y_1y_3y_5 + \\
& 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 - 3x_1x_4x_5y_1^2y_3 + 3x_1y_1^2y_3y_4y_5 + \\
& x_3x_4x_5y_1^3 - x_3y_1^3y_4y_5 - x_4y_1^3y_3y_5 - x_5y_1^3y_3y_4) + b_{-3,0,1,0,0,0,0,0,-2,0}^r(2x_1^3x_2x_5y_5 - \\
& x_1^3x_5^2y_2 + x_1^3y_2y_5^2 + 3x_1^2x_2x_5^2y_1 - 3x_1^2x_2y_1y_5^2 + 6x_1^2x_5y_1y_2y_5 - \\
& 6x_1x_2x_5y_1^2y_5 + 3x_1x_5^2y_1^2y_2 - 3x_1y_1^2y_2y_5^2 - x_2x_5^2y_1^3 + x_2y_1^3y_5^2 - 2x_5y_1^3y_2y_5) - \\
& b_{-3,0,1,0,0,0,2,0,0,0}^r(2x_1^3x_2x_4y_4 + x_1^3x_4^2y_2 - x_1^3y_2y_4^2 - 3x_1^2x_2x_4^2y_1 + 3x_1^2x_2y_1y_4^2 + \\
& 6x_1^2x_4y_1y_2y_4 - 6x_1x_2x_4y_1^2y_4 - 3x_1x_4^2y_1^2y_2 + 3x_1y_1^2y_2y_4^2 + x_2x_4^2y_1^3 - \\
& x_2y_1^3y_4^2 - 2x_4y_1^3y_2y_4) - b_{-3,0,1,0,2,0,0,0,0,0}^r(2x_1^3x_2x_3y_3 + x_1^3x_3^2y_2 - x_1^3y_2y_3^2 - \\
& 3x_1^2x_2x_3^2y_1 + 3x_1^2x_2y_1y_3^2 + 6x_1^2x_3y_1y_2y_3 - 6x_1x_2x_3y_1^2y_3 - 3x_1x_3^2y_1^2y_2 + \\
& 3x_1y_1^2y_2y_3^2 + x_2x_3^2y_1^3 - x_2y_1^3y_3^2 - 2x_3y_1^3y_2y_3) + b_{-3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^3y_2 + \\
& 3x_1^2x_2y_1 - 3x_1y_1^2y_2 - x_2y_1^3) + 4b_{-4,0,0,0,0,0,0,0,0,1}^rx_1y_1(x_1 - y_1)(x_1 + y_1)(x_5^2 + y_5^2) + \\
& 4b_{-4,0,0,0,0,0,0,1,0,0}^rx_1y_1(x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2) + 4b_{-4,0,0,0,0,1,0,0,0,0}^rx_1y_1(x_1 - y_1)(x_1 + y_1)(x_3^2 + \\
& y_3^2) + 4b_{-4,0,0,1,0,0,0,0,0,0}^rx_1y_1(x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2) + 4b_{-4,1,0,0,0,0,0,0,0,0}^rx_1y_1(x_1 - y_1)(x_1 + \\
& y_1)(x_1^2 + y_1^2) - b_{-5,0,1,0,0,0,0,0,0,0}^r(x_1^5y_2 - 5x_1^4x_2y_1 - 10x_1^3y_1^2y_2 + 10x_1^2x_2y_1^3 + 5x_1y_1^4y_2 - \\
& x_2y_1^5) - b_{0,0,-1,0,-1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) - b_{0,0,-1,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 - \\
& x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r(x_2x_3x_4^3y_5 + 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 - x_2x_3x_5y_4^3 + \\
& x_2x_4^3x_5y_3 - 3x_2x_4^2x_5y_3y_4y_5 - 3x_2x_4x_5y_3y_4^2 + x_2y_3y_4^3y_5 + x_3x_4^3x_5y_2 - \\
& 3x_3x_4^2y_2y_4y_5 - 3x_3x_4x_5y_2y_4^2 + x_3y_2y_4^3y_5 - x_4^3y_2y_3y_5 - 3x_4^2x_5y_2y_3y_4 + \\
& 3x_4y_2y_3y_4^2y_5 + x_5y_2y_3y_4^3) + b_{0,0,-1,0,-1,0,1,0,-3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 - \\
& x_2x_3x_5^3y_4 + 3x_2x_3x_5y_4y_5^2 + x_2x_4x_5^3y_3 - 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - \\
& x_2y_3y_4y_5^3 + x_3x_4x_5^3y_2 - 3x_3x_4x_5y_2y_5^2 + 3x_3x_5^2y_2y_4y_5 - x_3y_2y_4y_5^3 - \\
& 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 + x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) - \\
& b_{0,0,-1,0,-1,0,1,0,3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 + x_2x_3x_5^3y_4 - 3x_2x_3x_5y_4y_5^2 - x_2x_4x_5^3y_3 + \\
& 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 - x_3x_4x_5^3y_2 + 3x_3x_4x_5y_2y_5^2 + \\
& 3x_3x_5^2y_2y_4y_5 - x_3y_2y_4y_5^3 - 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 - x_5^3y_2y_3y_4 + \\
& 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,-1,0,3,0,-1,0}^r(x_2x_3x_4^3y_5 - 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 + \\
& x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 + 3x_2x_4^2y_3y_4y_5 - 3x_2x_4x_5y_3y_4^2 - x_2y_3y_4^3y_5 + x_3x_4^3x_5y_2 + \\
& 3x_3x_4^2y_2y_4y_5 - 3x_3x_4x_5y_2y_4^2 - x_3y_2y_4^3y_5 - x_4^3y_2y_3y_5 + 3x_4^2x_5y_2y_3y_4 + \\
& 3x_4y_2y_3y_4^2y_5 - x_5y_2y_3y_4^3) - b_{0,0,-1,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 + 3x_2x_3^2x_4x_5y_3 - 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 - x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 + x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 - \\
& 3x_3^2x_4y_2y_3y_5 - 3x_3^2x_5y_2y_3y_4 - 3x_3x_4x_5y_2y_3^2 + 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 + \\
& x_5y_2y_3^3y_4) - b_{0,0,-1,0,-3,0,1,0,1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 - 3x_2x_3^2x_4x_5y_3 + 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 - x_2y_3^3y_4y_5 - x_3^3x_4x_5y_2 + x_3^3y_2y_4y_5 - \\
& 3x_3^2x_4y_2y_3y_5 - 3x_3^2x_5y_2y_3y_4 + 3x_3x_4x_5y_2y_3^2 - 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 + \\
& x_5y_2y_3^3y_4) + b_{0,0,-1,0,1,0,-1,0,-3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 + x_2x_3x_5^3y_4 - \\
& 3x_2x_3x_5y_4y_5^2 - x_2x_4x_5^3y_3 + 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 + \\
& 3x_3x_4x_5^3y_2 - 3x_3x_4x_5y_2y_5^2 + 3x_3x_5^2y_2y_4y_5 - x_3y_2y_4y_5^3 - \\
& 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 + x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) + \\
& 3x_2x_3x_5y_4y_5^2 - x_2x_4x_5^3y_3 + 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 + \\
& 3x_3x_4x_5^3y_2 - x_3x_4x_5y_2y_5^2 + 3x_3x_5^2y_2y_4y_5 - x_3y_2y_4y_5^3 - \\
& 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 + x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) +
\end{aligned}$$

$$\begin{aligned}
& x_3x_4x_5^3y_2 - 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 + 3x_4x_5^2y_2y_3y_5 - \\
& x_4y_2y_3y_5^3 + x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) - b_{0,0,-1,0,1,0,-1,0,3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 - \\
& x_2x_3x_5^3y_4 + 3x_2x_3x_5y_4y_5^2 + x_2x_4x_5^3y_3 - 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - \\
& x_2y_3y_4y_5^3 - x_3x_4x_5^3y_2 + 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 + \\
& 3x_4x_5^2y_2y_3y_5 - x_4y_2y_3y_5^3 - x_5^3y_2y_3y_4 + 3x_5y_2y_3y_4y_5^2) - b_{0,0,-1,0,1,0,-3,0,1,0}^r(x_2x_3x_4^3y_5 - \\
& 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 + x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 + 3x_2x_4^2y_3y_4y_5 - \\
& 3x_2x_4x_5y_3y_4^2 - x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 - 3x_3x_4^2y_2y_4y_5 + 3x_3x_4x_5y_2y_4^2 + \\
& x_3y_2y_4^3y_5 + x_4^3y_2y_3y_5 - 3x_4^2x_5y_2y_3y_4 - 3x_4y_2y_3y_4^2y_5 + x_5y_2y_3y_4^3) + \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + b_{0,0,-1,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) - \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r(x_2x_3x_4^3y_5 + 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 - x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 - \\
& 3x_2x_4^2y_3y_4y_5 - 3x_2x_4x_5y_3y_4^2 + x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 + 3x_3x_4^2y_2y_4y_5 + \\
& 3x_3x_4x_5y_2y_4^2 - x_3y_2y_4^3y_5 + x_4^3y_2y_3y_5 + 3x_4^2x_5y_2y_3y_4 - 3x_4y_2y_3y_4^2y_5 - \\
& x_5y_2y_3y_4^3) + b_{0,0,-1,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + b_{0,0,-1,0,3,0,-1,0,-1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 - \\
& 3x_2x_3^2x_4x_5y_3 + 3x_2x_3^2y_3y_4y_5 - 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 - \\
& x_2y_3^3y_4y_5 + x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 + 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 - \\
& 3x_3x_4x_5y_2y_3^2 + 3x_3y_2y_3^2y_4y_5 - x_4y_2y_3^3y_5 - x_5y_2y_3^3y_4) - b_{0,0,-1,0,3,0,1,0,1,0}^r(x_2x_3^3x_4y_5 + \\
& x_2x_3^3x_5y_4 + 3x_2x_3^2x_4x_5y_3 - 3x_2x_3^2y_3y_4y_5 - 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 - \\
& x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 - x_3^3x_4x_5y_2 + x_3^3y_2y_4y_5 + 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 + \\
& 3x_3x_4x_5y_2y_3^2 - 3x_3y_2y_3^2y_4y_5 - x_4y_2y_3^3y_5 - x_5y_2y_3^3y_4) - b_{0,0,-1,1,-1,0,-1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + \\
& x_5y_2y_3y_4) + b_{0,0,-1,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + 2b_{0,0,-2,0,-2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2y_3y_4 - x_3y_2y_4 - \\
& x_4y_2y_3)(x_2x_3y_4 + x_2x_4y_3 + x_3x_4y_2 - y_2y_3y_4) - 2b_{0,0,-2,0,-2,0,0,0,2,0}^r(x_2x_3x_5 + x_2y_3y_5 + x_3y_2y_5 - \\
& x_5y_2y_3)(x_2x_3y_5 - x_2x_5y_3 - x_3x_5y_2 - y_2y_3y_5) + 2b_{0,0,-2,0,-4,0,0,0,0,0}^r(x_2x_3^2 - x_2y_3^2 - \\
& 2x_3y_2y_3)(2x_2x_3y_3 + x_3^2y_2 - y_2y_3^2) - 2b_{0,0,-2,0,0,0,-2,0,2,0}^r(x_2x_4x_5 + x_2y_4y_5 + x_4y_2y_5 - \\
& x_5y_2y_4)(x_2x_4y_5 - x_2x_5y_4 - x_4x_5y_2 - y_2y_4y_5) + 2b_{0,0,-2,0,0,0,-4,0,0,0}^r(x_2x_4^2 - x_2y_4^2 - \\
& 2x_4y_2y_4)(2x_2x_4y_4 + x_4^2y_2 - y_2y_4^2) + 2b_{0,0,-2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) - \\
& 2b_{0,0,-2,0,0,0,0,0,4,0}^r(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5)(2x_2x_5y_5 - x_2^2y_2 + y_2y_5^2) + 2b_{0,0,-2,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) - 2b_{0,0,-2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) - \\
& 2b_{0,0,-2,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + 2b_{0,0,-2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2x_5 - \\
& y_2y_5)(x_2y_5 + x_5y_2) - 2b_{0,0,-2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) - \\
& 2b_{0,0,-2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) - 2b_{0,0,-2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2x_3 + \\
& y_2y_3)(x_2y_3 - x_3y_2) - 2b_{0,0,-2,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + \\
& 2b_{0,0,-2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) - 2b_{0,0,-2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2x_4 + \\
& y_2y_4)(x_2y_4 - x_4y_2) - 2b_{0,0,-2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + \\
& b_{0,0,-3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4y_5 - x_2^3x_3x_5y_4 + x_3^3x_4x_5y_3 + x_3^2y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 + \\
& 3x_2^2x_3y_2y_4y_5 - 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 + 3x_2x_3x_5y_2^2y_4 - \\
& 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) + \\
& b_{0,0,-3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 - x_3^3x_4x_5y_3 + x_3^2y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 -
\end{aligned}$$

$$\begin{aligned}
& 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 + \\
& 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 + x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) - \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 - x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 + \\
& 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 - \\
& 3x_2x_4x_5y_2^2y_3 + 3x_2y_2^2y_3y_4y_5 + x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) + \\
& 4b_{0,0,-4,0,0,0,0,0,0,1}^rx_2y_2(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) + 4b_{0,0,-4,0,0,0,0,1,0,0}^rx_2y_2(x_2 - y_2)(x_2 + y_2)(x_4^2 + \\
& y_4^2) + 4b_{0,0,-4,0,0,1,0,0,0,0}^rx_2y_2(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2) + 4b_{0,0,-4,1,0,0,0,0,0,0}^rx_2y_2(x_2 - y_2)(x_2 + \\
& y_2)(x_2^2 + y_2^2) + 2b_{0,0,0,0,-2,0,-2,0,-2,0}^r(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4)(x_3x_4y_5 + x_3x_5y_4 + \\
& x_4x_5y_3 - y_3y_4y_5) + 2b_{0,0,0,0,-2,0,0,0,0,2}^rx_3y_3(x_5^2 + y_5^2)^2 + 2b_{0,0,0,0,-2,0,0,1,0,1}^rx_3y_3(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) + 2b_{0,0,0,0,-2,0,0,2,0,0}^rx_3y_3(x_4^2 + y_4^2)^2 - 2b_{0,0,0,0,-2,0,2,0,2,0}^r(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + \\
& x_5y_3y_4)(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5) + 2b_{0,0,0,0,-2,1,0,0,0,1}^rx_3y_3(x_3^2 + y_3^2)(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,0,-2,1,0,1,0,0}^rx_3y_3(x_3^2 + y_3^2)(x_4^2 + y_4^2) + 2b_{0,0,0,0,-2,2,0,0,0,0}^rx_3y_3(x_3^2 + y_3^2)^2 + \\
& 2b_{0,0,0,0,-4,0,0,0,-2,0}^r(x_3^2x_5 - 2x_3y_3y_5 - x_5y_3^2)(x_3^2y_5 + 2x_3x_5y_3 - y_3^2y_5) - \\
& 2b_{0,0,0,0,-4,0,2,0,0,0}^r(x_3^2x_4 + 2x_3y_3y_4 - x_4y_3^2)(x_3^2y_4 - 2x_3x_4y_3 - y_3^2y_4) + \\
& 2b_{0,0,0,0,0,0,-2,0,0,2}^rx_4y_4(x_5^2 + y_5^2)^2 + 2b_{0,0,0,0,0,0,-2,1,0,1}^rx_4y_4(x_4^2 + y_4^2)(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,0,0,0,-2,2,0,0}^rx_4y_4(x_4^2 + y_4^2)^2 + 2b_{0,0,0,0,0,0,-4,0,-2,0}^r(x_4^2x_5 - 2x_4y_4y_5 - x_5y_4^2)(x_4^2y_5 + \\
& 2x_4x_5y_4 - y_4^2y_5) + 4b_{0,0,0,0,0,0,0,0,-4,1}^rx_5y_5(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) - 2b_{0,0,0,0,0,0,0,2,2}^rx_5y_5(x_5^2 + \\
& y_5^2)^2 + 4b_{0,0,0,0,0,0,0,1,-4,0}^rx_5y_5(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) - 2b_{0,0,0,0,0,0,0,1,2,1}^rx_5y_5(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) - 2b_{0,0,0,0,0,0,0,2,2,0}^rx_5y_5(x_4^2 + y_4^2)^2 + 2b_{0,0,0,0,0,0,2,0,-2,1}^r(x_5^2 + y_5^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) - \\
& 2b_{0,0,0,0,0,0,2,0,4,0}^r(x_4x_5^2 - x_4y_5^2 - 2x_5y_4y_5)(2x_4x_5y_5 + x_5^2y_4 - y_4y_5^2) + 2b_{0,0,0,0,0,0,2,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) - 4b_{0,0,0,0,0,0,4,0,0,1}^rx_4y_4(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) - \\
& 4b_{0,0,0,0,0,0,4,1,0,0}^rx_4y_4(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + 2b_{0,0,0,0,0,0,1,-2,0,0,1}^rx_4y_4(x_3^2 + y_3^2)(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,0,0,1,-2,1,0,0}^rx_4y_4(x_3^2 + y_3^2)(x_4^2 + y_4^2) + 4b_{0,0,0,0,0,1,0,0,-4,0}^rx_5y_5(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) - \\
& 2b_{0,0,0,0,0,1,0,0,2,1}^rx_5y_5(x_3^2 + y_3^2)(x_5^2 + y_5^2) - 2b_{0,0,0,0,0,1,0,1,2,0}^rx_5y_5(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& 2b_{0,0,0,0,0,1,2,0,-2,0}^r(x_3^2 + y_3^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) - 4b_{0,0,0,0,0,1,4,0,0,0}^rx_4y_4(x_3^2 + y_3^2)(x_4 - \\
& y_4)(x_4 + y_4) + 2b_{0,0,0,0,0,2,-2,0,0,0}^rx_4y_4(x_3^2 + y_3^2)^2 - 2b_{0,0,0,0,0,2,0,0,2,0}^rx_5y_5(x_3^2 + y_3^2)^2 - \\
& 2b_{0,0,0,0,2,0,-2,0,2,0}^r(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5) + \\
& 2b_{0,0,0,0,2,0,-4,0,0,0}^r(x_3x_4^2 - x_3y_4^2 + 2x_4y_3y_4)(2x_3x_4y_4 - x_4^2y_3 + y_3y_4^2) + 2b_{0,0,0,0,2,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - 2b_{0,0,0,0,2,0,0,0,4,0}^r(x_3x_5^2 - x_3y_5^2 - 2x_5y_3y_5)(2x_3x_5y_5 + x_5^2y_3 - \\
& y_3y_5^2) + 2b_{0,0,0,0,2,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - 2b_{0,0,0,0,2,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) - 2b_{0,0,0,0,2,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + \\
& 2b_{0,0,0,0,2,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - 2b_{0,0,0,0,2,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_3x_4 - \\
& y_3y_4)(x_3y_4 + x_4y_3) - 4b_{0,0,0,0,4,0,0,0,0,1}^rx_3y_3(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) - 4b_{0,0,0,0,4,0,0,1,0,0}^rx_3y_3(x_3 - \\
& y_3)(x_3 + y_3)(x_4^2 + y_4^2) - 4b_{0,0,0,0,4,1,0,0,0,0}^rx_3y_3(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + \\
& 2b_{0,0,0,1,-2,0,0,0,0,1}^rx_3y_3(x_2^2 + y_2^2)(x_5^2 + y_5^2) + 2b_{0,0,0,1,-2,0,0,1,0,0}^rx_3y_3(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& 2b_{0,0,0,1,-2,1,0,0,0,0}^rx_3y_3(x_2^2 + y_2^2)(x_3^2 + y_3^2) + 2b_{0,0,0,1,0,0,-2,0,0,1}^rx_4y_4(x_2^2 + y_2^2)(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,1,0,0,-2,1,0,0}^rx_4y_4(x_2^2 + y_2^2)(x_4^2 + y_4^2) + 4b_{0,0,0,1,0,0,0,0,-4,0}^rx_5y_5(x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) - \\
& 2b_{0,0,0,1,0,0,0,0,2,1}^rx_5y_5(x_2^2 + y_2^2)(x_5^2 + y_5^2) - 2b_{0,0,0,1,0,0,0,1,2,0}^rx_5y_5(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& 2b_{0,0,0,1,0,0,2,0,-2,0}^r(x_2^2 + y_2^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) - 4b_{0,0,0,1,0,0,4,0,0,0}^rx_4y_4(x_2^2 + y_2^2)(x_4 - \\
& y_4)(x_4 + y_4) + 2b_{0,0,0,1,0,1,-2,0,0,0}^rx_4y_4(x_2^2 + y_2^2)(x_3^2 + y_3^2) - 2b_{0,0,0,1,0,1,0,0,2,0}^rx_5y_5(x_2^2 + y_2^2)(x_3^2 + \\
& y_3^2) + 2b_{0,0,0,1,2,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - 2b_{0,0,0,1,2,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_3x_4 - \\
& y_3y_4)(x_3y_4 + x_4y_3) - 4b_{0,0,0,1,4,0,0,0,0,0}^rx_3y_3(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3) + 2b_{0,0,0,2,-2,0,0,0,0}^rx_3y_3(x_2^2 +
\end{aligned}$$

$$\begin{aligned}
& y_2^2)^2 + 2b_{0,0,0,2,0,0,-2,0,0,0}^r x_4 y_4 (x_2^2 + y_2^2)^2 - 2b_{0,0,0,2,0,0,0,0,2,0}^r x_5 y_5 (x_2^2 + y_2^2)^2 + \\
& b_{0,0,1,0,-1,0,-1,0,-1,1}^r (x_5^2 + y_5^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + b_{0,0,1,0,-1,0,-1,1,-1,0}^r (x_4^2 + y_4^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + \\
& x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - \\
& b_{0,0,1,0,-1,0,1,0,1,1}^r (x_5^2 + y_5^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - b_{0,0,1,0,-1,0,1,1,1,0}^r (x_4^2 + y_4^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - \\
& x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,1,0,-1,1,-1,0,-1,0}^r (x_3^2 + y_3^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - b_{0,0,1,0,-1,1,1,0,1,0}^r (x_3^2 + y_3^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 - \\
& x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r (x_2 x_3^3 x_4 y_5 - x_2 x_3^3 x_5 y_4 + 3x_2 x_3^2 x_4 x_5 y_3 + 3x_2 x_3^2 y_3 y_4 y_5 - \\
& 3x_2 x_3 x_4 y_3^2 y_5 + 3x_2 x_3 x_5 y_3^2 y_4 - x_2 x_4 x_5 y_3^3 - x_2 y_3^3 y_4 y_5 - x_3^3 x_4 x_5 y_2 - x_3^3 y_2 y_4 y_5 + \\
& 3x_3^2 x_4 y_2 y_3 y_5 - 3x_3^2 x_5 y_2 y_3 y_4 + 3x_3 x_4 x_5 y_2 y_3^2 + 3x_3 y_2 y_3^2 y_4 y_5 - x_4 y_2 y_3^3 y_5 + \\
& x_5 y_2 y_3^3 y_4) - b_{0,0,1,0,1,0,-1,0,1,1}^r (x_5^2 + y_5^2) (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + \\
& x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - b_{0,0,1,0,1,0,-1,1,1,0}^r (x_4^2 + y_4^2) (x_2 x_3 x_4 y_5 - \\
& x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r (x_2 x_3 x_4^3 y_5 + 3x_2 x_3 x_4^2 x_5 y_4 - 3x_2 x_3 x_4 y_4^2 y_5 - x_2 x_3 x_5 y_4^3 - x_2 x_4^3 x_5 y_3 + \\
& 3x_2 x_4^2 y_3 y_4 y_5 + 3x_2 x_4 x_5 y_3 y_4^2 - x_2 y_3 y_4^3 y_5 - x_3 x_4^3 x_5 y_2 + 3x_3 x_4^2 y_2 y_4 y_5 + \\
& 3x_3 x_4 x_5 y_2 y_4^2 - x_3 y_2 y_4^3 y_5 - x_4^3 y_2 y_3 y_5 - 3x_4^2 x_5 y_2 y_3 y_4 + 3x_4 y_2 y_3 y_4^2 y_5 + \\
& x_5 y_2 y_3 y_4^3) + b_{0,0,1,0,1,0,1,0,-3,0}^r (3x_2 x_3 x_4 x_5^2 y_5 - x_2 x_3 x_4 y_5^3 - x_2 x_3 x_5^3 y_4 + 3x_2 x_3 x_5 y_4 y_5^2 - \\
& x_2 x_4 x_5^3 y_3 + 3x_2 x_4 x_5 y_3 y_5^2 - 3x_2 x_5^2 y_3 y_4 y_5 + x_2 y_3 y_4 y_5^3 - x_3 x_4 x_5^3 y_2 + \\
& 3x_3 x_4 x_5 y_2 y_5^2 - 3x_3 x_5^2 y_2 y_4 y_5 + x_3 y_2 y_4 y_5^3 - 3x_4 x_5^2 y_2 y_3 y_5 + x_4 y_2 y_3 y_5^3 + \\
& x_5^3 y_2 y_3 y_4 - 3x_5 y_2 y_3 y_4 y_5^2) - b_{0,0,1,0,1,0,1,0,3,0}^r (3x_2 x_3 x_4 x_5^2 y_5 - x_2 x_3 x_4 y_5^3 + x_2 x_3 x_5^3 y_4 - \\
& 3x_2 x_3 x_5 y_4 y_5^2 + x_2 x_4 x_5^3 y_3 - 3x_2 x_4 x_5 y_3 y_5^2 - 3x_2 x_5^2 y_3 y_4 y_5 + x_2 y_3 y_4 y_5^3 + \\
& x_3 x_4 x_5^3 y_2 - 3x_3 x_4 x_5 y_2 y_5^2 - 3x_3 x_5^2 y_2 y_4 y_5 + x_3 y_2 y_4 y_5^3 - 3x_4 x_5^2 y_2 y_3 y_5 + \\
& x_4 y_2 y_3 y_5^3 - x_5^3 y_2 y_3 y_4 + 3x_5 y_2 y_3 y_4 y_5^2) + b_{0,0,1,0,1,0,3,0,-1,0}^r (x_2 x_3 x_4^3 y_5 - 3x_2 x_3 x_4^2 x_5 y_4 - \\
& 3x_2 x_3 x_4 y_4^2 y_5 + x_2 x_3 x_5 y_4^3 - x_2 x_4^3 x_5 y_3 - 3x_2 x_4^2 y_3 y_4 y_5 + 3x_2 x_4 x_5 y_3 y_4^2 + \\
& x_2 y_3 y_4^3 y_5 - x_3 x_4^3 x_5 y_2 - 3x_3 x_4^2 y_2 y_4 y_5 + 3x_3 x_4 x_5 y_2 y_4^2 + x_3 y_2 y_4^3 y_5 - x_4^3 y_2 y_3 y_5 + \\
& 3x_4^2 x_5 y_2 y_3 y_4 + 3x_4 y_2 y_3 y_4^2 y_5 - x_5 y_2 y_3 y_4^3) - b_{0,0,1,0,1,1,-1,0,1,0}^r (x_3^2 + y_3^2) (x_2 x_3 x_4 y_5 - \\
& x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,1,0,3,0,1,0,-1,0}^r (x_2 x_3^3 x_4 y_5 - x_2 x_3^3 x_5 y_4 - 3x_2 x_3^2 x_4 x_5 y_3 - 3x_2 x_3^2 y_3 y_4 y_5 - \\
& 3x_2 x_3 x_4 y_3^2 y_5 + 3x_2 x_3 x_5 y_3^2 y_4 + x_2 x_4 x_5 y_3^3 + x_2 y_3^3 y_4 y_5 - x_3^3 x_4 x_5 y_2 - x_3^3 y_2 y_4 y_5 - \\
& 3x_3^2 x_4 y_2 y_3 y_5 + 3x_3^2 x_5 y_2 y_3 y_4 + 3x_3 x_4 x_5 y_2 y_3^2 + 3x_3 y_2 y_3^2 y_4 y_5 + x_4 y_2 y_3^3 y_5 - \\
& x_5 y_2 y_3^3 y_4) + b_{0,0,1,1,-1,0,-1,0,-1,0}^r (x_2^2 + y_2^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - \\
& x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - b_{0,0,1,1,-1,0,1,0,1,0}^r (x_2^2 + y_2^2) (x_2 x_3 x_4 y_5 + \\
& x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - \\
& b_{0,0,1,1,1,0,-1,0,1,0}^r (x_2^2 + y_2^2) (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + 2b_{0,0,2,0,-2,0,0,0,-2,0}^r (x_2 x_3 x_5 - x_2 y_3 y_5 + x_3 y_2 y_5 + \\
& x_5 y_2 y_3) (x_2 x_3 y_5 + x_2 x_5 y_3 - x_3 x_5 y_2 + y_2 y_3 y_5) - 2b_{0,0,2,0,-2,0,2,0,0,0}^r (x_2 x_3 x_4 + x_2 y_3 y_4 - x_3 y_2 y_4 + \\
& x_4 y_2 y_3) (x_2 x_3 y_4 - x_2 x_4 y_3 + x_3 x_4 y_2 + y_2 y_3 y_4) + 2b_{0,0,2,0,0,0,-2,0,-2,0}^r (x_2 x_4 x_5 - x_2 y_4 y_5 + x_4 y_2 y_5 + \\
& x_5 y_2 y_4) (x_2 x_4 y_5 + x_2 x_5 y_4 - x_4 x_5 y_2 + y_2 y_4 y_5) - 2b_{0,0,2,0,0,0,0,0,0,2}^r x_2 y_2 (x_5^2 + y_5^2)^2 - \\
& 2b_{0,0,2,0,0,0,0,0,1,0}^r x_2 y_2 (x_4^2 + y_4^2) (x_5^2 + y_5^2) - 2b_{0,0,2,0,0,0,0,2,0,0}^r x_2 y_2 (x_4^2 + y_4^2)^2 -
\end{aligned}$$

$$\begin{aligned}
& 2b_{0,0,2,0,0,0,2,0,2,0}^r(x_2x_4x_5 - x_2y_4y_5 - x_4y_2y_5 - x_5y_2y_4)(x_2x_4y_5 + x_2x_5y_4 + x_4x_5y_2 - y_2y_4y_5) - \\
& 2b_{0,0,2,0,0,1,0,0,0,1}^rx_2y_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) - 2b_{0,0,2,0,0,1,0,1,0,0}^rx_2y_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) - \\
& 2b_{0,0,2,0,0,2,0,0,0,0}^rx_2y_2(x_3^2 + y_3^2)^2 + 2b_{0,0,2,0,2,0,0,-2,0,0,0}^r(x_2x_3x_4 + x_2y_3y_4 + x_3y_2y_4 - \\
& x_4y_2y_3)(x_2x_3y_4 - x_2x_4y_3 - x_3x_4y_2 - y_2y_3y_4) - 2b_{0,0,2,0,2,0,0,0,2,0}^r(x_2x_3x_5 - x_2y_3y_5 - x_3y_2y_5 - \\
& x_5y_2y_3)(x_2x_3y_5 + x_2x_5y_3 + x_3x_5y_2 - y_2y_3y_5) - 2b_{0,0,2,1,0,0,0,0,0,1}^rx_2y_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) - \\
& 2b_{0,0,2,1,0,0,0,1,0,0}^rx_2y_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) - 2b_{0,0,2,1,0,1,0,0,0,0}^rx_2y_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) - \\
& 2b_{0,0,2,2,0,0,0,0,0,0}^rx_2y_2(x_2^2 + y_2^2)^2 + b_{0,0,3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4y_5 - x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 + \\
& x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 - 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 - 3x_2^2x_5y_2y_3y_4 - \\
& 3x_2x_3x_4y_2^2y_5 + 3x_2x_3x_5y_2^2y_4 - 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 + x_3x_4x_5y_2^3 + \\
& x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) + b_{0,0,3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 - \\
& x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 + 3x_2^2x_3y_2y_4y_5 - 3x_2^2x_4y_2y_3y_5 - \\
& 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 + 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 + \\
& x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) - b_{0,0,3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4y_5 + \\
& x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 - x_2^3y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 - 3x_2^2x_3y_2y_4y_5 - \\
& 3x_2^2x_4y_2y_3y_5 - 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 - 3x_2x_4x_5y_2^2y_3 + \\
& 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 + x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) + \\
& 2b_{0,0,4,0,0,0,0,0,-2,0}^r(x_2^2x_5 + 2x_2y_2y_5 - x_5y_2^2)(x_2^2y_5 - 2x_2x_5y_2 - y_2^2y_5) - 2b_{0,0,4,0,0,0,2,0,0,0}^r(x_2^2x_4 - \\
& 2x_2y_2y_4 - x_4y_2^2)(x_2^2y_4 + 2x_2x_4y_2 - y_2^2y_4) - 2b_{0,0,4,0,2,0,0,0,0,0}^r(x_2^2x_3 - 2x_2y_2y_3 - \\
& x_3y_2^2)(x_2^2y_3 + 2x_2x_3y_2 - y_2^2y_3) - b_{0,1,-1,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,1,-1,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + 2b_{0,1,-2,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) - \\
& 2b_{0,1,-2,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) - 2b_{0,1,-2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2x_3 + \\
& y_2y_3)(x_2y_3 - x_3y_2) + 4b_{0,1,-4,0,0,0,0,0,0,0}^rx_2y_2(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2) + \\
& 2b_{0,1,0,0,-2,0,0,0,0,1}^rx_3y_3(x_1^2 + y_1^2)(x_5^2 + y_5^2) + 2b_{0,1,0,0,-2,0,0,1,0,0}^rx_3y_3(x_1^2 + y_1^2)(x_4^2 + y_4^2) + \\
& 2b_{0,1,0,0,-2,1,0,0,0,0}^rx_3y_3(x_1^2 + y_1^2)(x_3^2 + y_3^2) + 2b_{0,1,0,0,0,0,-2,0,0,1}^rx_4y_4(x_1^2 + y_1^2)(x_5^2 + y_5^2) + \\
& 2b_{0,1,0,0,0,0,-2,1,0,0}^rx_4y_4(x_1^2 + y_1^2)(x_4^2 + y_4^2) + 4b_{0,1,0,0,0,0,0,0,-4,0}^rx_5y_5(x_1^2 + y_1^2)(x_5 - y_5)(x_5 + y_5) - \\
& 2b_{0,1,0,0,0,0,0,0,2,1}^rx_5y_5(x_1^2 + y_1^2)(x_5^2 + y_5^2) - 2b_{0,1,0,0,0,0,0,1,2,0}^rx_5y_5(x_1^2 + y_1^2)(x_4^2 + y_4^2) + \\
& 2b_{0,1,0,0,0,0,2,0,-2,0}^r(x_1^2 + y_1^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) - 4b_{0,1,0,0,0,0,4,0,0,0}^rx_4y_4(x_1^2 + y_1^2)(x_4 - \\
& y_4)(x_4 + y_4) + 2b_{0,1,0,0,0,1,-2,0,0,0}^rx_4y_4(x_1^2 + y_1^2)(x_3^2 + y_3^2) - 2b_{0,1,0,0,0,1,0,0,2,0}^rx_5y_5(x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2) + 2b_{0,1,0,0,2,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - 2b_{0,1,0,0,2,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_3x_4 - \\
& y_3y_4)(x_3y_4 + x_4y_3) - 4b_{0,1,0,0,4,0,0,0,0,0}^rx_3y_3(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3) + 2b_{0,1,0,1,-2,0,0,0,0,0}^rx_3y_3(x_1^2 + \\
& y_1^2)(x_2^2 + y_2^2) + 2b_{0,1,0,1,0,0,-2,0,0,0}^rx_4y_4(x_1^2 + y_1^2)(x_2^2 + y_2^2) - 2b_{0,1,0,1,0,0,0,0,2,0}^rx_5y_5(x_1^2 + \\
& y_1^2)(x_2^2 + y_2^2) + b_{0,1,1,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) - b_{0,1,1,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 + \\
& x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) - 2b_{0,1,2,0,0,0,0,0,0,1}^rx_2y_2(x_1^2 + y_1^2)(x_5^2 + y_5^2) - \\
& 2b_{0,1,2,0,0,0,1,0,0,0}^rx_2y_2(x_1^2 + y_1^2)(x_4^2 + y_4^2) - 2b_{0,1,2,0,0,1,0,0,0,0}^rx_2y_2(x_1^2 + y_1^2)(x_3^2 + y_3^2) - \\
& 2b_{0,1,2,1,0,0,0,0,0,0}^rx_2y_2(x_1^2 + y_1^2)(x_2^2 + y_2^2) + 2b_{0,2,0,0,-2,0,0,0,0,0}^rx_3y_3(x_1^2 + y_1^2)^2 + \\
& 2b_{0,2,0,0,0,0,-2,0,0,0}^rx_4y_4(x_1^2 + y_1^2)^2 - 2b_{0,2,0,0,0,0,0,0,2,0}^rx_5y_5(x_1^2 + y_1^2)^2 - \\
& 2b_{0,2,2,0,0,0,0,0,0,0}^rx_2y_2(x_1^2 + y_1^2)^2 + b_{1,0,-1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_3y_3 + x_1x_2^2y_2 -
\end{aligned}$$



$$\begin{aligned}
& x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{1,0,-1,0,-2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_3y_3 + \\
& x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{1,0,-1,0,-2,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(2x_1x_2x_3y_3 + x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + \\
& b_{1,0,-1,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) + b_{1,0,-1,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + \\
& x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{1,0,-1,0,0,0,0,0,-4,0}^r(4x_1x_2x_5^3y_5 - 4x_1x_2x_5y_5^3 + x_1x_5^4y_2 - \\
& 6x_1x_5^2y_2y_5^2 + x_1y_2y_5^4 - x_2x_5^4y_1 + 6x_2x_5^2y_1y_5^2 - x_2y_1y_5^4 + 4x_5^3y_1y_2y_5 - \\
& 4x_5y_1y_2y_5^3) - b_{1,0,-1,0,0,0,0,0,2,1}^r(x_5^2 + y_5^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 + 2x_5y_1y_2y_5) - b_{1,0,-1,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + \\
& x_2x_5^2y_1 - x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,0,-1,0,0,0,2,0,-2,0}^r(2x_1x_2x_4^2x_5y_5 - 2x_1x_2x_4x_5^2y_4 + \\
& 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 + x_1x_4^2x_5^2y_2 - x_1x_4^2y_2y_5^2 + 4x_1x_4x_5y_2y_4y_5 - \\
& x_1x_5^2y_2y_4^2 + x_1y_2y_4^2y_5^2 - x_2x_4^2x_5^2y_1 + x_2x_4^2y_1y_5^2 - 4x_2x_4x_5y_1y_4y_5 + \\
& x_2x_5^2y_1y_4^2 - x_2y_1y_4^2y_5^2 + 2x_4^2x_5y_1y_2y_5 - 2x_4x_5^2y_1y_2y_4 + 2x_4y_1y_2y_4y_5^2 - \\
& 2x_5y_1y_2y_4^2y_5) - b_{1,0,-1,0,0,0,4,0,0,0}^r(4x_1x_2x_4^3y_4 - 4x_1x_2x_4y_4^3 - x_1x_4^4y_2 + 6x_1x_4^2y_2y_4^2 - \\
& x_1y_2y_4^4 + x_2x_4^4y_1 - 6x_2x_4^2y_1y_4^2 + x_2y_1y_4^4 + 4x_4^3y_1y_2y_4 - 4x_4y_1y_2y_4^3) + \\
& b_{1,0,-1,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) - b_{1,0,-1,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,0,-1,0,2,0,0,0,-2,0}^r(2x_1x_2x_3^2x_5y_5 - 2x_1x_2x_3x_5^2y_3 + 2x_1x_2x_3y_3y_5^2 - \\
& 2x_1x_2x_5y_3^2y_5 + x_1x_3^2x_5^2y_2 - x_1x_3^2y_2y_5^2 + 4x_1x_3x_5y_2y_3y_5 - x_1x_5^2y_2y_3^2 + \\
& x_1y_2y_3^2y_5^2 - x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 - 4x_2x_3x_5y_1y_3y_5 + x_2x_5^2y_1y_3^2 - \\
& x_2y_1y_3^2y_5^2 + 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 - 2x_5y_1y_2y_3^2y_5) - \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 - \\
& x_1x_3^2x_4^2y_2 + x_1x_3^2y_2y_4^2 + 4x_1x_3x_4y_2y_3y_4 + x_1x_4^2y_2y_3^2 - x_1y_2y_3^2y_4^2 + \\
& x_2x_3^2x_4^2y_1 - x_2x_3^2y_1y_4^2 - 4x_2x_3x_4y_1y_3y_4 - x_2x_4^2y_1y_3^2 + x_2y_1y_3^2y_4^2 + \\
& 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - 2x_3y_1y_2y_3y_4^2 - 2x_4y_1y_2y_3^2y_4) - \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r(4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 - x_1x_3^4y_2 + 6x_1x_3^2y_2y_3^2 - x_1y_2y_3^4 + \\
& x_2x_3^4y_1 - 6x_2x_3^2y_1y_3^2 + x_2y_1y_3^4 + 4x_3^3y_1y_2y_3 - 4x_3y_1y_2y_3^3) + b_{1,0,-1,1,-2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(2x_1x_2x_3y_3 + x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + \\
& b_{1,0,-1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) - b_{1,0,-1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 + 2x_5y_1y_2y_5) - b_{1,0,-2,0,-1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 - \\
& x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 + \\
& x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,-2,0,1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 - \\
& x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 - \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,-3,0,0,0,0,0,-2,0}^r(2x_1x_3^3x_5y_5 + 3x_1x_2^2x_5^2y_2 - 3x_1x_2^2y_2y_5^2 - \\
& 6x_1x_2x_5y_2^2y_5 - x_1x_5^2y_2^3 + x_1y_2^3y_5^2 - x_2^3x_5^2y_1 + x_2^3y_1y_5^2 + 6x_2^2x_5y_1y_2y_5 +
\end{aligned}$$

$$\begin{aligned}
& 3x_2x_5^2y_1y_2^2 - 3x_2y_1y_2^2y_5^2 - 2x_5y_1y_2^3y_5) - b_{1,0,-3,0,0,0,2,0,0,0}^r(2x_1x_2^3x_4y_4 - \\
& 3x_1x_2^2x_4^2y_2 + 3x_1x_2^2y_2y_4^2 - 6x_1x_2x_4y_2^2y_4 + x_1x_4^2y_2^3 - x_1y_2^3y_4^2 + x_2^3x_4^2y_1 - \\
& x_2^3y_1y_4^2 + 6x_2^2x_4y_1y_2y_4 - 3x_2x_4^2y_1y_2^2 + 3x_2y_1y_2^2y_4^2 - 2x_4y_1y_2^3y_4) - \\
& b_{1,0,-3,0,2,0,0,0,0,0}^r(2x_1x_2^3x_3y_3 - 3x_1x_2^2x_3^2y_2 + 3x_1x_2^2y_2y_3^2 - 6x_1x_2x_3y_2^2y_3 + \\
& x_1x_2^3y_2^3 - x_1y_2^3y_3^2 + x_2^3x_3^2y_1 - x_2^3y_1y_3^2 + 6x_2^2x_3y_1y_2y_3 - 3x_2x_3^2y_1y_2^2 + \\
& 3x_2y_1y_2^2y_3^2 - 2x_3y_1y_2^3y_3) + b_{1,0,-5,0,0,0,0,0,0,0}^r(5x_1x_2^4y_2 - 10x_1x_2^2y_2^3 + x_1y_2^5 - x_2^5y_1 + \\
& 10x_2^3y_1y_2^2 - 5x_2y_1y_2^4) + b_{1,0,0,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - \\
& x_1y_3y_4y_5 - x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r(x_4^2 + \\
& y_4^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 + \\
& x_5y_1y_3y_4) - b_{1,0,0,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + \\
& x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,0,0,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 + \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,0,0,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - \\
& x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,-3,0,1,0,-1,0}^r(x_1x_3^3x_4y_5 - x_1x_3^3x_5y_4 + 3x_1x_3^2x_4x_5y_3 + 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 + 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 + \\
& 3x_3^2x_4y_1y_3y_5 - 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 + \\
& x_5y_1y_3^3y_4) - b_{1,0,0,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + \\
& x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,0,0,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,1,0,-3,0,-1,0}^r(x_1x_3x_4^3y_5 + 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 - x_1x_3x_5y_4^3 - x_1x_4^3x_5y_3 + \\
& 3x_1x_4^2y_3y_4y_5 + 3x_1x_4x_5y_3y_4^2 - x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 + 3x_3x_4^2y_1y_4y_5 + \\
& 3x_3x_4x_5y_1y_4^2 - x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 - 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 + \\
& x_5y_1y_3y_4^3) + b_{1,0,0,0,1,0,1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - x_1x_3x_5^3y_4 + 3x_1x_3x_5y_4y_5^2 - \\
& x_1x_4x_5^3y_3 + 3x_1x_4x_5y_3y_5^2 - 3x_1x_5^2y_3y_4y_5 + x_1y_3y_4y_5^3 - x_3x_4x_5^3y_1 + \\
& 3x_3x_4x_5y_1y_5^2 - 3x_3x_5^2y_1y_4y_5 + x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 + \\
& x_5^3y_1y_3y_4 - 3x_5y_1y_3y_4y_5^2) - b_{1,0,0,0,1,0,1,0,3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 + x_1x_3x_5^3y_4 - \\
& 3x_1x_3x_5y_4y_5^2 + x_1x_4x_5^3y_3 - 3x_1x_4x_5y_3y_5^2 - 3x_1x_5^2y_3y_4y_5 + x_1y_3y_4y_5^3 + \\
& x_3x_4x_5^3y_1 - 3x_3x_4x_5y_1y_5^2 - 3x_3x_5^2y_1y_4y_5 + x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + \\
& x_4y_1y_3y_5^3 - x_5^3y_1y_3y_4 + 3x_5y_1y_3y_4y_5^2) + b_{1,0,0,0,1,0,3,0,-1,0}^r(x_1x_3x_4^3y_5 - 3x_1x_3x_4^2x_5y_4 - \\
& 3x_1x_3x_4y_4^2y_5 + x_1x_3x_5y_4^3 - x_1x_4^3x_5y_3 - 3x_1x_4^2y_3y_4y_5 + 3x_1x_4x_5y_3y_4^2 + \\
& x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 - 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 + x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 + \\
& 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 - x_5y_1y_3y_4^3) - b_{1,0,0,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,3,0,1,0,-1,0}^r(x_1x_3^3x_4y_5 - x_1x_3^3x_5y_4 - 3x_1x_3^2x_4x_5y_3 - 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 + 3x_1x_3x_5y_3^2y_4 + x_1x_4x_5y_3^3 + x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 - \\
& 3x_3^2x_4y_1y_3y_5 + 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 + x_4y_1y_3^3y_5 - \\
& x_5y_1y_3^3y_4) + b_{1,0,0,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - \\
& x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,0,0,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 + \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) - \\
& b_{1,0,0,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 +
\end{aligned}$$

$$\begin{aligned}
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,1,0,-2,0,0,0,-2,0}^r(2x_1x_2x_3^2x_5y_5 + 2x_1x_2x_3x_5^2y_3 - \\
& 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 - x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 + 4x_1x_3x_5y_2y_3y_5 + \\
& x_1x_5^2y_2y_3^2 - x_1y_2y_3^2y_5^2 - x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 + 4x_2x_3x_5y_1y_3y_5 + \\
& x_2x_5^2y_1y_3^2 - x_2y_1y_3^2y_5^2 - 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 + \\
& 2x_5y_1y_2y_3^2y_5) - b_{1,0,1,0,-2,0,2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 - 2x_1x_2x_3x_4^2y_3 + 2x_1x_2x_3y_3y_4^2 - \\
& 2x_1x_2x_4y_3^2y_4 + x_1x_3^2x_4^2y_2 - x_1x_3^2y_2y_4^2 + 4x_1x_3x_4y_2y_3y_4 - x_1x_4^2y_2y_3^2 + \\
& x_1y_2y_3^2y_4^2 + x_2x_3^2x_4^2y_1 - x_2x_3^2y_1y_4^2 + 4x_2x_3x_4y_1y_3y_4 - x_2x_4^2y_1y_3^2 + \\
& x_2y_1y_3^2y_4^2 - 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - 2x_3y_1y_2y_3y_4^2 + 2x_4y_1y_2y_3^2y_4) + \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r(2x_1x_2x_4^2x_5y_5 + 2x_1x_2x_4x_5^2y_4 - 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 - \\
& x_1x_4^2x_5^2y_2 + x_1x_4^2y_2y_5^2 + 4x_1x_4x_5y_2y_4y_5 + x_1x_5^2y_2y_4^2 - x_1y_2y_4^2y_5^2 - \\
& x_2x_4^2x_5^2y_1 + x_2x_4^2y_1y_5^2 + 4x_2x_4x_5y_1y_4y_5 + x_2x_5^2y_1y_4^2 - x_2y_1y_4^2y_5^2 - \\
& 2x_4^2x_5y_1y_2y_5 - 2x_4x_5^2y_1y_2y_4 + 2x_4y_1y_2y_4y_5^2 + 2x_5y_1y_2y_4^2y_5) - b_{1,0,1,0,0,0,0,0,0,2}^r(x_5^2 + \\
& y_5^2)^2(x_1y_2 + x_2y_1) - b_{1,0,1,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)(x_1y_2 + x_2y_1) - b_{1,0,1,0,0,0,0,2,0,0}^r(x_4^2 + \\
& y_4^2)^2(x_1y_2 + x_2y_1) - b_{1,0,1,0,0,0,2,0,2,0}^r(2x_1x_2x_4^2x_5y_5 + 2x_1x_2x_4x_5^2y_4 - 2x_1x_2x_4y_4y_5^2 - \\
& 2x_1x_2x_5y_4^2y_5 + x_1x_4^2x_5^2y_2 - x_1x_4^2y_2y_5^2 - 4x_1x_4x_5y_2y_4y_5 - x_1x_5^2y_2y_4^2 + \\
& x_1y_2y_4^2y_5^2 + x_2x_4^2x_5^2y_1 - x_2x_4^2y_1y_5^2 - 4x_2x_4x_5y_1y_4y_5 - x_2x_5^2y_1y_4^2 + \\
& x_2y_1y_4^2y_5^2 - 2x_4^2x_5y_1y_2y_5 - 2x_4x_5^2y_1y_2y_4 + 2x_4y_1y_2y_4y_5^2 + 2x_5y_1y_2y_4^2y_5) - \\
& b_{1,0,1,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2)(x_1y_2 + x_2y_1) - b_{1,0,1,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1y_2 + \\
& x_2y_1) - b_{1,0,1,0,0,2,0,0,0,0}^r(x_3^2 + y_3^2)^2(x_1y_2 + x_2y_1) + b_{1,0,1,0,2,0,-2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 - \\
& 2x_1x_2x_3x_4^2y_3 + 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 - x_1x_3^2x_4^2y_2 + x_1x_3^2y_2y_4^2 - \\
& 4x_1x_3x_4y_2y_3y_4 + x_1x_4^2y_2y_3^2 - x_1y_2y_3^2y_4^2 - x_2x_3^2x_4^2y_1 + x_2x_3^2y_1y_4^2 - \\
& 4x_2x_3x_4y_1y_3y_4 + x_2x_4^2y_1y_3^2 - x_2y_1y_3^2y_4^2 - 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - \\
& 2x_3y_1y_2y_3y_4^2 + 2x_4y_1y_2y_3^2y_4) - b_{1,0,1,0,2,0,0,0,2,0}^r(2x_1x_2x_3^2x_5y_5 + 2x_1x_2x_3x_5^2y_3 - \\
& 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 + x_1x_3^2x_5^2y_2 - x_1x_3^2y_2y_5^2 - 4x_1x_3x_5y_2y_3y_5 - \\
& x_1x_5^2y_2y_3^2 + x_1y_2y_3^2y_5^2 + x_2x_3^2x_5^2y_1 - x_2x_3^2y_1y_5^2 - 4x_2x_3x_5y_1y_3y_5 - \\
& x_2x_5^2y_1y_3^2 + x_2y_1y_3^2y_5^2 - 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 + \\
& 2x_5y_1y_2y_3^2y_5) - b_{1,0,1,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2)(x_1y_2 + x_2y_1) - b_{1,0,1,1,0,0,0,1,0,0}^r(x_2^2 + \\
& y_2^2)(x_4^2 + y_4^2)(x_1y_2 + x_2y_1) - b_{1,0,1,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_1y_2 + x_2y_1) - \\
& b_{1,0,1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1y_2 + x_2y_1) + b_{1,0,2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 + \\
& x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 - \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - \\
& x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 + \\
& 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 - \\
& x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{1,0,2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 - \\
& x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - \\
& x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - \\
& 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + \\
& x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) - b_{1,0,2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 + \\
& x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 + \\
& x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - \\
& 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + \\
& x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) - b_{1,0,2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 + \\
& x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 + \\
& x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 -
\end{aligned}$$

$$\begin{aligned}
& 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 + \\
& x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{1,0,3,0,0,0,0,0,-2,0}^r(2x_1x_2^3x_5y_5 - 3x_1x_2^2x_5^2y_2 + \\
& 3x_1x_2^2y_2y_5^2 - 6x_1x_2x_5y_2^2y_5 + x_1x_5^2y_3^2 - x_1y_2^3y_5^2 - x_2^3x_5^2y_1 + x_2^3y_1y_5^2 - \\
& 6x_2^2x_5y_1y_2y_5 + 3x_2x_5^2y_1y_2^2 - 3x_2y_1y_2^2y_5^2 + 2x_5y_1y_2^3y_5) - \\
& b_{1,0,3,0,0,0,2,0,0,0}^r(2x_1x_2^3x_4y_4 + 3x_1x_2^2x_4^2y_2 - 3x_1x_2^2y_2y_4^2 - 6x_1x_2x_4y_2^2y_4 - \\
& x_1x_4^2y_2^3 + x_1y_2^3y_4^2 + x_2^3x_4^2y_1 - x_2^3y_1y_4^2 - 6x_2^2x_4y_1y_2y_4 - 3x_2x_4^2y_1y_2^2 + \\
& 3x_2y_1y_2^2y_4^2 + 2x_4y_1y_2^3y_4) - b_{1,0,3,0,2,0,0,0,0,0}^r(2x_1x_2^3x_3y_3 + 3x_1x_2^2x_3^2y_2 - \\
& 3x_1x_2^2y_2y_3^2 - 6x_1x_2x_3y_2^2y_3 - x_1x_3^2y_2^3 + x_1y_2^3y_3^2 + x_2^3x_3^2y_1 - x_2^3y_1y_3^2 - \\
& 6x_2^2x_3y_1y_2y_3 - 3x_2x_3^2y_1y_2^2 + 3x_2y_1y_2^2y_3^2 + 2x_3y_1y_2^3y_3) + b_{1,1,-1,0,-2,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(2x_1x_2x_3y_3 + x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + \\
& b_{1,1,-1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) - b_{1,1,-1,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,1,0,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - \\
& x_1y_3y_4y_5 - x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,1,0,0,-1,0,1,0,1,0}^r(x_1^2 + \\
& y_1^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + \\
& x_5y_1y_3y_4) - b_{1,1,0,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + \\
& x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,1,1,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1y_2 + \\
& x_2y_1) - b_{1,1,1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1y_2 + x_2y_1) - b_{1,1,1,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2)(x_1y_2 + x_2y_1) - b_{1,1,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_1y_2 + x_2y_1) - b_{1,2,1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)^2(x_1y_2 + x_2y_1) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + x_1^2x_2x_4x_5y_3 - \\
& x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - x_1^2x_5y_2y_3y_4 - \\
& 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) - b_{2,0,-1,0,-1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) - b_{2,0,-1,0,1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + 2b_{2,0,-2,0,-2,0,0,0,0,0}^r(x_1x_2x_3 - x_1y_2y_3 + x_2y_1y_3 + \\
& x_3y_1y_2)(x_1x_2y_3 + x_1x_3y_2 - x_2x_3y_1 + y_1y_2y_3) + 2b_{2,0,-2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 - x_1y_2y_4 + x_2y_1y_4 + \\
& x_4y_1y_2)(x_1x_2y_4 + x_1x_4y_2 - x_2x_4y_1 + y_1y_2y_4) - 2b_{2,0,-2,0,0,0,0,0,2,0}^r(x_1x_2x_5 + x_1y_2y_5 - x_2y_1y_5 + \\
& x_5y_1y_2)(x_1x_2y_5 - x_1x_5y_2 + x_2x_5y_1 + y_1y_2y_5) + 2b_{2,0,0,0,-2,0,0,0,-2,0}^r(x_1x_3x_5 - x_1y_3y_5 + x_3y_1y_5 + \\
& x_5y_1y_3)(x_1x_3y_5 + x_1x_5y_3 - x_3x_5y_1 + y_1y_3y_5) - 2b_{2,0,0,0,-2,0,2,0,0,0}^r(x_1x_3x_4 + x_1y_3y_4 - x_3y_1y_4 + \\
& x_4y_1y_3)(x_1x_3y_4 - x_1x_4y_3 + x_3x_4y_1 + y_1y_3y_4) + 2b_{2,0,0,0,0,0,-2,0,-2,0}^r(x_1x_4x_5 - x_1y_4y_5 + x_4y_1y_5 + \\
& x_5y_1y_4)(x_1x_4y_5 + x_1x_5y_4 - x_4x_5y_1 + y_1y_4y_5) - 2b_{2,0,0,0,0,0,0,0,0,2}^r(x_1y_1(x_5^2 + y_5^2))^2 - \\
& 2b_{2,0,0,0,0,0,0,0,1,0,1}^r(x_1y_1(x_4^2 + y_4^2)(x_5^2 + y_5^2) - 2b_{2,0,0,0,0,0,0,2,0,0}^r(x_1y_1(x_4^2 + y_4^2))^2 -
\end{aligned}$$

$$\begin{aligned}
& 2b_{2,0,0,0,0,0,2,0,2,0}^r(x_1x_4x_5 - x_1y_4y_5 - x_4y_1y_5 - x_5y_1y_4)(x_1x_4y_5 + x_1x_5y_4 + x_4x_5y_1 - y_1y_4y_5) - \\
& 2b_{2,0,0,0,0,1,0,0,0,1}^r(x_1y_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) - 2b_{2,0,0,0,0,1,0,1,0,0}^r(x_1y_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) - \\
& 2b_{2,0,0,0,0,2,0,0,0,0}^r(x_1y_1(x_3^2 + y_3^2)^2 + 2b_{2,0,0,0,2,0,-2,0,0,0}^r(x_1x_3x_4 + x_1y_3y_4 + x_3y_1y_4 - \\
& x_4y_1y_3)(x_1x_3y_4 - x_1x_4y_3 - x_3x_4y_1 - y_1y_3y_4) - 2b_{2,0,0,0,2,0,0,0,2,0}^r(x_1x_3x_5 - x_1y_3y_5 - x_3y_1y_5 - \\
& x_5y_1y_3)(x_1x_3y_5 + x_1x_5y_3 + x_3x_5y_1 - y_1y_3y_5) - 2b_{2,0,0,1,0,0,0,0,0,1}^r(x_1y_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) - \\
& 2b_{2,0,0,1,0,0,0,1,0,0}^r(x_1y_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) - 2b_{2,0,0,1,0,1,0,0,0,0}^r(x_1y_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) - \\
& 2b_{2,0,0,2,0,0,0,0,0,0}^r(x_1y_1(x_2^2 + y_2^2)^2 + b_{2,0,1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{2,0,1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) - b_{2,0,1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + 2b_{2,0,2,0,0,0,0,0,-2,0}^r(x_1x_2x_5 + x_1y_2y_5 + x_2y_1y_5 - \\
& x_5y_1y_2)(x_1x_2y_5 - x_1x_5y_2 - x_2x_5y_1 - y_1y_2y_5) - 2b_{2,0,2,0,0,0,2,0,0,0}^r(x_1x_2x_4 - x_1y_2y_4 - x_2y_1y_4 - \\
& x_4y_1y_2)(x_1x_2y_4 + x_1x_4y_2 + x_2x_4y_1 - y_1y_2y_4) - 2b_{2,0,2,0,2,0,0,0,0,0}^r(x_1x_2x_3 - x_1y_2y_3 - x_2y_1y_3 - \\
& x_3y_1y_2)(x_1x_2y_3 + x_1x_3y_2 + x_2x_3y_1 - y_1y_2y_3) - 2b_{2,1,0,0,0,0,0,0,0,1}^r(x_1y_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) - \\
& 2b_{2,1,0,0,0,0,0,1,0,0}^r(x_1y_1(x_1^2 + y_1^2)(x_4^2 + y_4^2) - 2b_{2,1,0,0,0,1,0,0,0,0}^r(x_1y_1(x_1^2 + y_1^2)(x_3^2 + y_3^2) - \\
& 2b_{2,1,0,1,0,0,0,0,0,0}^r(x_1y_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) - 2b_{2,2,0,0,0,0,0,0,0,0}^r(x_1y_1(x_1^2 + y_1^2)^2 + \\
& b_{3,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + b_{3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + b_{3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1^3y_2 - \\
& 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + b_{3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + \\
& x_2y_1^3) + b_{3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4y_5 - x_1^3x_3x_5y_4 + x_1^3x_4x_5y_3 + x_1^3y_3y_4y_5 - \\
& 3x_1^2x_3x_4x_5y_1 - 3x_1^2x_3y_1y_4y_5 + 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 + \\
& 3x_1x_3x_5y_1^2y_4 - 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 + x_3y_1^3y_4y_5 - \\
& x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + b_{3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 - x_1^3x_4x_5y_3 + \\
& x_1^3y_3y_4y_5 - 3x_1^2x_3x_4x_5y_1 + 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - \\
& 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 + 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 - \\
& x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) - b_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 + \\
& x_1^3x_4x_5y_3 - x_1^3y_3y_4y_5 + 3x_1^2x_3x_4x_5y_1 - 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 - \\
& 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 - 3x_1x_4x_5y_1^2y_3 + 3x_1y_1^2y_3y_4y_5 - \\
& x_3x_4x_5y_1^3 + x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + b_{3,0,1,0,0,0,0,0,-2,0}^r(2x_1^3x_2x_5y_5 - \\
& x_1^3x_5^2y_2 + x_1^3y_2y_5^2 - 3x_1^2x_2x_5^2y_1 + 3x_1^2x_2y_1y_5^2 - 6x_1^2x_5y_1y_2y_5 - \\
& 6x_1x_2x_5y_1^2y_5 + 3x_1x_5^2y_1^2y_2 - 3x_1y_1^2y_2y_5^2 + x_2x_5^2y_1^3 - x_2y_1^3y_5^2 + 2x_5y_1^3y_2y_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{3,0,1,0,0,0,2,0,0,0}^r(2x_1^3x_2x_4y_4 + x_1^3x_4^2y_2 - x_1^3y_2y_4^2 + 3x_1^2x_2x_4^2y_1 - 3x_1^2x_2y_1y_4^2 - \\
& 6x_1^2x_4y_1y_2y_4 - 6x_1x_2x_4y_1^2y_4 - 3x_1x_4^2y_1^2y_2 + 3x_1y_1^2y_2y_4^2 - x_2x_4^2y_1^3 + \\
& x_2y_1^3y_4^2 + 2x_4y_1^3y_2y_4) - b_{3,0,1,0,2,0,0,0,0,0}^r(2x_1^3x_2x_3y_3 + x_1^3x_3^2y_2 - x_1^3y_2y_3^2 + \\
& 3x_1^2x_2x_3^2y_1 - 3x_1^2x_2y_1y_3^2 - 6x_1^2x_3y_1y_2y_3 - 6x_1x_2x_3y_1^2y_3 - 3x_1x_3^2y_1^2y_2 + \\
& 3x_1y_1^2y_2y_3^2 - x_2x_3^2y_1^3 + x_2y_1^3y_3^2 + 2x_3y_1^3y_2y_3) + b_{3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^3y_2 - \\
& 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + 2b_{4,0,-2,0,0,0,0,0,0,0}^r(x_1^2x_2 + 2x_1y_1y_2 - x_2y_1^2)(x_1^2y_2 - \\
& 2x_1x_2y_1 - y_1^2y_2) + 2b_{4,0,0,0,0,0,0,0,-2,0}^r(x_1^2x_5 + 2x_1y_1y_5 - x_5y_1^2)(x_1^2y_5 - 2x_1x_5y_1 - y_1^2y_5) - \\
& 2b_{4,0,0,0,0,0,2,0,0,0}^r(x_1^2x_4 - 2x_1y_1y_4 - x_4y_1^2)(x_1^2y_4 + 2x_1x_4y_1 - y_1^2y_4) - 2b_{4,0,0,0,2,0,0,0,0,0}^r(x_1^2x_3 - \\
& 2x_1y_1y_3 - x_3y_1^2)(x_1^2y_3 + 2x_1x_3y_1 - y_1^2y_3)
\end{aligned}$$

$$\begin{aligned}
H_{YX}^{(6)} = & b_{-1,0,-1,0,-2,0,-2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - 2x_1x_2x_4y_3^2y_4 + \\
& x_1x_3^2x_4^2y_2 - x_1x_3^2y_2y_4^2 - 4x_1x_3x_4y_2y_3y_4 - x_1x_4^2y_2y_3^2 + x_1y_2y_3^2y_4^2 + \\
& x_2x_3^2x_4^2y_1 - x_2x_3^2y_1y_4^2 - 4x_2x_3x_4y_1y_3y_4 - x_2x_4^2y_1y_3^2 + x_2y_1y_3^2y_4^2 - \\
& 2x_3^2x_4y_1y_2y_4 - 2x_3x_4^2y_1y_2y_3 + 2x_3y_1y_2y_3y_4^2 + 2x_4y_1y_2y_3^2y_4) - \\
& b_{-1,0,-1,0,-2,0,0,0,2,0}^r(2x_1x_2x_3^2x_5y_5 - 2x_1x_2x_3x_5^2y_3 + 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 - \\
& x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 - 4x_1x_3x_5y_2y_3y_5 + x_1x_5^2y_2y_3^2 - x_1y_2y_3^2y_5^2 - \\
& x_2x_3^2x_5^2y_1 + x_2x_3^2y_1y_5^2 - 4x_2x_3x_5y_1y_3y_5 + x_2x_5^2y_1y_3^2 - x_2y_1y_3^2y_5^2 - \\
& 2x_3^2x_5y_1y_2y_5 + 2x_3x_5^2y_1y_2y_3 - 2x_3y_1y_2y_3y_5^2 + 2x_5y_1y_2y_3^2y_5) + \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r(4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 + x_1x_3^4y_2 - 6x_1x_3^2y_2y_3^2 + x_1y_2y_3^4 + \\
& x_2x_3^4y_1 - 6x_2x_3^2y_1y_3^2 + x_2y_1y_3^4 - 4x_3^3y_1y_2y_3 + 4x_3y_1y_2y_3^3) - \\
& b_{-1,0,-1,0,0,0,-2,0,2,0}^r(2x_1x_2x_4^2x_5y_5 - 2x_1x_2x_4x_5^2y_4 + 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 - \\
& x_1x_4^2x_5^2y_2 + x_1x_4^2y_2y_5^2 - 4x_1x_4x_5y_2y_4y_5 + x_1x_5^2y_2y_4^2 - x_1y_2y_4^2y_5^2 - \\
& x_2x_4^2x_5^2y_1 + x_2x_4^2y_1y_5^2 - 4x_2x_4x_5y_1y_4y_5 + x_2x_5^2y_1y_4^2 - x_2y_1y_4^2y_5^2 - \\
& 2x_4^2x_5y_1y_2y_5 + 2x_4x_5^2y_1y_2y_4 - 2x_4y_1y_2y_4y_5^2 + 2x_5y_1y_2y_4^2y_5) + \\
& b_{-1,0,-1,0,0,0,-4,0,0,0}^r(4x_1x_2x_4^3y_4 - 4x_1x_2x_4y_4^3 + x_1x_4^4y_2 - 6x_1x_4^2y_2y_4^2 + x_1y_2y_4^4 + \\
& x_2x_4^4y_1 - 6x_2x_4^2y_1y_4^2 + x_2y_1y_4^4 - 4x_4^3y_1y_2y_4 + 4x_4y_1y_2y_4^3) + b_{-1,0,-1,0,0,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) - \\
& b_{-1,0,-1,0,0,0,0,0,4,0}^r(4x_1x_2x_5^3y_5 - 4x_1x_2x_5y_5^3 - x_1x_5^4y_2 + 6x_1x_5^2y_2y_5^2 - x_1y_2y_5^4 - \\
& x_2x_5^4y_1 + 6x_2x_5^2y_1y_5^2 - x_2y_1y_5^4 - 4x_5^3y_1y_2y_5 + 4x_5y_1y_2y_5^3) + b_{-1,0,-1,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) - \\
& b_{-1,0,-1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - \\
& 2x_4y_1y_2y_4) - b_{-1,0,-1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - x_2x_4^2y_1 + \\
& x_2y_1y_4^2 - 2x_4y_1y_2y_4) + b_{-1,0,-1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + \\
& x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) - b_{-1,0,-1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + \\
& x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) - b_{-1,0,-1,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_3y_3 - \\
& x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) - b_{-1,0,-1,0,2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) - \\
& b_{-1,0,-1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - \\
& 2x_3y_1y_2y_3) + b_{-1,0,-1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 - 2x_5y_1y_2y_5) - b_{-1,0,-1,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 - \\
& x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) - b_{-1,0,-1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + \\
& x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,0,-2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - \\
& x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - \\
& 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 - \\
& x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + \\
& x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - \\
& x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + \\
& x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) - b_{-1,0,-2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + \\
& x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + \\
& 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + \\
& x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 - \\
& 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - \\
& x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 - x_5y_1y_2^2y_3y_4) + b_{-1,0,-3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(3x_1x_2^2y_2 - \\
& x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + b_{-1,0,-3,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - \\
& 3x_2y_1y_2^2) + b_{-1,0,-3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) + \\
& b_{-1,0,-3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) - b_{-1,0,0,0,-1,0,-1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + \\
& x_5y_1y_3y_4) - b_{-1,0,0,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - \\
& x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,0,-1,0,-3,0,-1,0}^r(x_1x_3x_4^3y_5 + \\
& 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 - x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 - 3x_1x_4^2y_3y_4y_5 - \\
& 3x_1x_4x_5y_3y_4^2 + x_1y_3y_4^3y_5 + x_3x_4^3x_5y_1 - 3x_3x_4^2y_1y_4y_5 - 3x_3x_4x_5y_1y_4^2 + \\
& x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 - 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3) + \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - x_1x_3x_5^3y_4 + 3x_1x_3x_5y_4y_5^2 + x_1x_4x_5^3y_3 - \\
& 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 + x_3x_4x_5^3y_1 - 3x_3x_4x_5y_1y_5^2 + \\
& 3x_3x_5^2y_1y_4y_5 - x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 + x_5^3y_1y_3y_4 - \\
& 3x_5y_1y_3y_4y_5^2) - b_{-1,0,0,0,-1,0,1,0,3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 + x_1x_3x_5^3y_4 - \\
& 3x_1x_3x_5y_4y_5^2 - x_1x_4x_5^3y_3 + 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 - \\
& x_3x_4x_5^3y_1 + 3x_3x_4x_5y_1y_5^2 + 3x_3x_5^2y_1y_4y_5 - x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + \\
& x_4y_1y_3y_5^3 - x_5^3y_1y_3y_4 + 3x_5y_1y_3y_4y_5^2) + b_{-1,0,0,0,-1,0,3,0,-1,0}^r(x_1x_3x_4^3y_5 - \\
& 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 + x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 + 3x_1x_4^2y_3y_4y_5 - \\
& 3x_1x_4x_5y_3y_4^2 - x_1y_3y_4^3y_5 + x_3x_4^3x_5y_1 + 3x_3x_4^2y_1y_4y_5 - 3x_3x_4x_5y_1y_4^2 - \\
& x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 + 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 - x_5y_1y_3y_4^3) - \\
& b_{-1,0,0,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - \\
& x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,0,-3,0,-1,0,-1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 + \\
& 3x_1x_3^2x_4x_5y_3 - 3x_1x_3^2y_3y_4y_5 - 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 + \\
& x_1y_3^3y_4y_5 + x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 - 3x_3^2x_4y_1y_3y_5 - 3x_3^2x_5y_1y_3y_4 - \\
& 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 + x_4y_1y_3^3y_5 + x_5y_1y_3^3y_4) - b_{-1,0,0,0,-3,0,1,0,1,0}^r(x_1x_3^3x_4y_5 + \\
& x_1x_3^3x_5y_4 - 3x_1x_3^2x_4x_5y_3 + 3x_1x_3^2y_3y_4y_5 - 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 + \\
& x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 + x_3^3y_1y_4y_5 - 3x_3^2x_4y_1y_3y_5 - 3x_3^2x_5y_1y_3y_4 + \\
& 3x_3x_4x_5y_1y_3^2 - 3x_3y_1y_3^2y_4y_5 + x_4y_1y_3^3y_5 + x_5y_1y_3^3y_4) +
\end{aligned}$$

$$\begin{aligned}
& b_{-1,0,0,0,1,0,-1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 + x_1x_3x_5^3y_4 - 3x_1x_3x_5y_4y_5^2 - x_1x_4x_5^3y_3 + \\
& 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 + x_3x_4x_5^3y_1 - 3x_3x_4x_5y_1y_5^2 - \\
& 3x_3x_5^2y_1y_4y_5 + x_3y_1y_4y_5^3 + 3x_4x_5^2y_1y_3y_5 - x_4y_1y_3y_5^3 + x_5^3y_1y_3y_4 - \\
& 3x_5y_1y_3y_4y_5^2) - b_{-1,0,0,0,1,0,-1,0,3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - x_1x_3x_5^3y_4 + \\
& 3x_1x_3x_5y_4y_5^2 + x_1x_4x_5^3y_3 - 3x_1x_4x_5y_3y_5^2 + 3x_1x_5^2y_3y_4y_5 - x_1y_3y_4y_5^3 - \\
& x_3x_4x_5^3y_1 + 3x_3x_4x_5y_1y_5^2 - 3x_3x_5^2y_1y_4y_5 + x_3y_1y_4y_5^3 + 3x_4x_5^2y_1y_3y_5 - \\
& x_4y_1y_3y_5^3 - x_5^3y_1y_3y_4 + 3x_5y_1y_3y_4y_5^2) - b_{-1,0,0,0,1,0,-3,0,1,0}^r(x_1x_3x_4^3y_5 - 3x_1x_3x_4^2x_5y_4 - \\
& 3x_1x_3x_4y_4^2y_5 + x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 + 3x_1x_4^2y_3y_4y_5 - 3x_1x_4x_5y_3y_4^2 - \\
& x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 - 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 + x_3y_1y_4^3y_5 + x_4^3y_1y_3y_5 - \\
& 3x_4^2x_5y_1y_3y_4 - 3x_4y_1y_3y_4^2y_5 + x_5y_1y_3y_4^3) + b_{-1,0,0,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + \\
& b_{-1,0,0,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) - b_{-1,0,0,0,1,0,3,0,1,0}^r(x_1x_3x_4^3y_5 + 3x_1x_3x_4^2x_5y_4 - \\
& 3x_1x_3x_4y_4^2y_5 - x_1x_3x_5y_4^3 + x_1x_4^3x_5y_3 - 3x_1x_4^2y_3y_4y_5 - 3x_1x_4x_5y_3y_4^2 + \\
& x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 + 3x_3x_4^2y_1y_4y_5 + 3x_3x_4x_5y_1y_4^2 - x_3y_1y_4^3y_5 + x_4^3y_1y_3y_5 + \\
& 3x_4^2x_5y_1y_3y_4 - 3x_4y_1y_3y_4^2y_5 - x_5y_1y_3y_4^3) + b_{-1,0,0,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + \\
& b_{-1,0,0,0,3,0,-1,0,-1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 - 3x_1x_3^2x_4x_5y_3 + 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 + x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 + x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 + \\
& 3x_3^2x_4y_1y_3y_5 + 3x_3^2x_5y_1y_3y_4 - 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 - \\
& x_5y_1y_3^3y_4) - b_{-1,0,0,0,3,0,1,0,1,0}^r(x_1x_3^3x_4y_5 + x_1x_3^3x_5y_4 + 3x_1x_3^2x_4x_5y_3 - 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 - 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 + x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 + x_3^3y_1y_4y_5 + \\
& 3x_3^2x_4y_1y_3y_5 + 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 - 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 - \\
& x_5y_1y_3^3y_4) - b_{-1,0,0,1,-1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - \\
& x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{-1,0,0,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + \\
& b_{-1,0,1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + \\
& 2x_3y_1y_2y_3) + b_{-1,0,1,0,-2,0,0,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - \\
& x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{-1,0,1,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + \\
& x_2x_3^2y_1 - x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{-1,0,1,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + \\
& x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{-1,0,1,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(2x_1x_2x_4y_4 - \\
& x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + 2x_4y_1y_2y_4) + b_{-1,0,1,0,0,0,0,-4,0}^r(4x_1x_2x_5^3y_5 - \\
& 4x_1x_2x_5y_5^3 - x_1x_5^4y_2 + 6x_1x_5^2y_2y_5^2 - x_1y_2y_5^4 + x_2x_5^4y_1 - 6x_2x_5^2y_1y_5^2 + \\
& x_2y_1y_5^4 + 4x_5^3y_1y_2y_5 - 4x_5y_1y_2y_5^3) - b_{-1,0,1,0,0,0,0,2,1}^r(x_5^2 + y_5^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - \\
& x_1y_2y_5^2 - x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) - b_{-1,0,1,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(2x_1x_2x_5y_5 + \\
& x_1x_5^2y_2 - x_1y_2y_5^2 - x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,0,1,0,0,0,2,0,-2,0}^r(2x_1x_2x_4^2x_5y_5 - \\
& 2x_1x_2x_4x_5^2y_4 + 2x_1x_2x_4y_4y_5^2 - 2x_1x_2x_5y_4^2y_5 - x_1x_4^2x_5^2y_2 + x_1x_4^2y_2y_5^2 - \\
& 4x_1x_4x_5y_2y_4y_5 + x_1x_5^2y_2y_4^2 - x_1y_2y_4^2y_5^2 + x_2x_4^2x_5^2y_1 - x_2x_4^2y_1y_5^2 + \\
& 4x_2x_4x_5y_1y_4y_5 - x_2x_5^2y_1y_4^2 + x_2y_1y_4^2y_5^2 + 2x_4^2x_5y_1y_2y_5 - 2x_4x_5^2y_1y_2y_4 + \\
& 2x_4y_1y_2y_4y_5^2 - 2x_5y_1y_2y_4^2y_5) - b_{-1,0,1,0,0,0,4,0,0,0}^r(4x_1x_2x_4^3y_4 - 4x_1x_2x_4y_4^3 + x_1x_4^4y_2 - \\
& 6x_1x_4^2y_2y_4^2 + x_1y_2y_4^4 - x_2x_4^4y_1 + 6x_2x_4^2y_1y_4^2 - x_2y_1y_4^4 + 4x_4^3y_1y_2y_4 - \\
& 4x_4y_1y_2y_4^3) + b_{-1,0,1,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 -
\end{aligned}$$



$$\begin{aligned}
& x_2y_1y_4^2 + 2x_4y_1y_2y_4) - b_{-1,0,1,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 - \\
& x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,0,1,0,2,0,0,0,-2,0}^r(2x_1x_2x_3^2x_5y_5 - 2x_1x_2x_3x_5^2y_3 + \\
& 2x_1x_2x_3y_3y_5^2 - 2x_1x_2x_5y_3^2y_5 - x_1x_3^2x_5^2y_2 + x_1x_3^2y_2y_5^2 - 4x_1x_3x_5y_2y_3y_5 + \\
& x_1x_5^2y_2y_3^2 - x_1y_2y_3^2y_5^2 + x_2x_3^2x_5^2y_1 - x_2x_3^2y_1y_5^2 + 4x_2x_3x_5y_1y_3y_5 - \\
& x_2x_5^2y_1y_3^2 + x_2y_1y_3^2y_5^2 + 2x_3^2x_5y_1y_2y_5 - 2x_3x_5^2y_1y_2y_3 + 2x_3y_1y_2y_3y_5^2 - \\
& 2x_5y_1y_2y_3^2y_5) - b_{-1,0,1,0,2,0,2,0,0,0}^r(2x_1x_2x_3^2x_4y_4 + 2x_1x_2x_3x_4^2y_3 - 2x_1x_2x_3y_3y_4^2 - \\
& 2x_1x_2x_4y_3^2y_4 + x_1x_3^2x_4^2y_2 - x_1x_3^2y_2y_4^2 - 4x_1x_3x_4y_2y_3y_4 - x_1x_4^2y_2y_3^2 + \\
& x_1y_2y_3^2y_4^2 - x_2x_3^2x_4^2y_1 + x_2x_3^2y_1y_4^2 + 4x_2x_3x_4y_1y_3y_4 + x_2x_4^2y_1y_3^2 - \\
& x_2y_1y_3^2y_4^2 + 2x_3^2x_4y_1y_2y_4 + 2x_3x_4^2y_1y_2y_3 - 2x_3y_1y_2y_3y_4^2 - 2x_4y_1y_2y_3^2y_4) - \\
& b_{-1,0,1,0,4,0,0,0,0,0}^r(4x_1x_2x_3^3y_3 - 4x_1x_2x_3y_3^3 + x_1x_3^4y_2 - 6x_1x_3^2y_2y_3^2 + x_1y_2y_3^4 - \\
& x_2x_3^4y_1 + 6x_2x_3^2y_1y_3^2 - x_2y_1y_3^4 + 4x_3^3y_1y_2y_3 - 4x_3y_1y_2y_3^3) + b_{-1,0,1,1,-2,0,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + 2x_3y_1y_2y_3) + \\
& b_{-1,0,1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) - b_{-1,0,1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 - x_2x_5^2y_1 + \\
& x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{-1,0,2,0,-1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 - \\
& x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 + \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) - b_{-1,0,2,0,-1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 + \\
& x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 + \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 + 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) - b_{-1,0,2,0,1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 + x_1x_2^2x_4x_5y_3 + \\
& x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 + \\
& 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) - b_{-1,0,3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) - \\
& b_{-1,0,3,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) - b_{-1,0,3,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) - b_{-1,0,3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(3x_1x_2^2y_2 - \\
& x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + b_{-1,1,-1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 + \\
& x_2x_5^2y_1 - x_2y_1y_5^2 - 2x_5y_1y_2y_5) - b_{-1,1,-1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 - x_1x_4^2y_2 + \\
& x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 - 2x_4y_1y_2y_4) - b_{-1,1,-1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_3y_3 - \\
& x_1x_3^2y_2 + x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 - 2x_3y_1y_2y_3) + b_{-1,1,-3,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(3x_1x_2^2y_2 - x_1y_2^3 + x_2^3y_1 - 3x_2y_1y_2^2) - b_{-1,1,0,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 - x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{-1,1,0,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 - x_1x_4x_5y_3 - x_1y_3y_4y_5 + x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 - x_5y_1y_3y_4) + b_{-1,1,1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_3y_3 - x_1x_3^2y_2 + \\
& x_1y_2y_3^2 + x_2x_3^2y_1 - x_2y_1y_3^2 + 2x_3y_1y_2y_3) + b_{-1,1,1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 - \\
& x_1x_4^2y_2 + x_1y_2y_4^2 + x_2x_4^2y_1 - x_2y_1y_4^2 - 2x_4y_1y_2y_4) - b_{-1,1,1,0,0,0,0,0,2,0}^r(x_1^2 +
\end{aligned}$$

$$\begin{aligned}
& y_1^2)(2x_1x_2x_5y_5 + x_1x_5^2y_2 - x_1y_2y_5^2 - x_2x_5^2y_1 + x_2y_1y_5^2 + 2x_5y_1y_2y_5) - \\
& b_{-1,1,3,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(3x_1x_2^2y_2 - x_1y_2^3 - x_2^3y_1 + 3x_2y_1y_2^2) + \\
& b_{-2,0,-1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 + \\
& x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 + x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 + \\
& 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - 2x_1x_3x_4y_1y_2y_5 + \\
& 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + x_2x_3x_5y_1^2y_4 - \\
& x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + x_4y_1^2y_2y_3y_5 - \\
& x_5y_1^2y_2y_3y_4) + b_{-2,0,-1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - x_1^2x_2x_4x_5y_3 + \\
& x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 + x_1^2x_5y_2y_3y_4 + \\
& 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 - x_5y_1^2y_2y_3y_4) - b_{-2,0,-1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 + \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 - x_5y_1^2y_2y_3y_4) + 2b_{-2,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + \\
& 2b_{-2,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + 2b_{-2,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2 - \\
& y_1y_2)(x_1y_2 + x_2y_1) + 2b_{-2,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2 - y_1y_2)(x_1y_2 + x_2y_1) + \\
& 2b_{-2,0,0,0,-2,0,-2,0,0,0}^r(x_1x_3x_4 - x_1y_3y_4 - x_3y_1y_4 - x_4y_1y_3)(x_1x_3y_4 + x_1x_4y_3 + x_3x_4y_1 - y_1y_3y_4) - \\
& 2b_{-2,0,0,0,-2,0,0,0,2,0}^r(x_1x_3x_5 + x_1y_3y_5 + x_3y_1y_5 - x_5y_1y_3)(x_1x_3y_5 - x_1x_5y_3 - x_3x_5y_1 - y_1y_3y_5) + \\
& 2b_{-2,0,0,0,-4,0,0,0,0,0}^r(x_1x_3^2 - x_1y_3^2 - 2x_3y_1y_3)(2x_1x_3y_3 + x_3^2y_1 - y_1y_3^2) - \\
& 2b_{-2,0,0,0,0,0,-2,0,2,0}^r(x_1x_4x_5 + x_1y_4y_5 + x_4y_1y_5 - x_5y_1y_4)(x_1x_4y_5 - x_1x_5y_4 - x_4x_5y_1 - y_1y_4y_5) + \\
& 2b_{-2,0,0,0,0,0,-4,0,0,0}^r(x_1x_4^2 - x_1y_4^2 - 2x_4y_1y_4)(2x_1x_4y_4 + x_4^2y_1 - y_1y_4^2) + 2b_{-2,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - 2b_{-2,0,0,0,0,0,0,0,4,0}^r(x_1x_5^2 - x_1y_5^2 + 2x_5y_1y_5)(2x_1x_5y_5 - x_5^2y_1 + \\
& y_1y_5^2) + 2b_{-2,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - 2b_{-2,0,0,0,0,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) - 2b_{-2,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) + \\
& 2b_{-2,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - 2b_{-2,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_4 + \\
& y_1y_4)(x_1y_4 - x_4y_1) - 2b_{-2,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_3 + y_1y_3)(x_1y_3 - x_3y_1) - \\
& 2b_{-2,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_3 + y_1y_3)(x_1y_3 - x_3y_1) - 2b_{-2,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_3 + \\
& y_1y_3)(x_1y_3 - x_3y_1) + 2b_{-2,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1x_5 - y_1y_5)(x_1y_5 + x_5y_1) - \\
& 2b_{-2,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_4 + y_1y_4)(x_1y_4 - x_4y_1) - 2b_{-2,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_3 + \\
& y_1y_3)(x_1y_3 - x_3y_1) - b_{-2,0,1,0,-1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 - x_1^2x_2x_4x_5y_3 - \\
& x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - x_1^2x_5y_2y_3y_4 - \\
& 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{-2,0,1,0,1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 + \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 +
\end{aligned}$$

$$\begin{aligned}
& x_4 y_1^2 y_2 y_3 y_5 - x_5 y_1^2 y_2 y_3 y_4) + 2b_{-2,0,2,0,-2,0,0,0,0}^r (x_1 x_2 x_3 + x_1 y_2 y_3 - x_2 y_1 y_3 + \\
& x_3 y_1 y_2)(x_1 x_2 y_3 - x_1 x_3 y_2 + x_2 x_3 y_1 + y_1 y_2 y_3) + 2b_{-2,0,2,0,0,0,-2,0,0,0}^r (x_1 x_2 x_4 + x_1 y_2 y_4 - x_2 y_1 y_4 + \\
& x_4 y_1 y_2)(x_1 x_2 y_4 - x_1 x_4 y_2 + x_2 x_4 y_1 + y_1 y_2 y_4) - 2b_{-2,0,2,0,0,0,0,0,2,0}^r (x_1 x_2 x_5 - x_1 y_2 y_5 + x_2 y_1 y_5 + \\
& x_5 y_1 y_2)(x_1 x_2 y_5 + x_1 x_5 y_2 - x_2 x_5 y_1 + y_1 y_2 y_5) - 2b_{-2,0,4,0,0,0,0,0,0,0}^r (x_1 x_2^2 - x_1 y_2^2 + \\
& 2x_2 y_1 y_2)(2x_1 x_2 y_2 - x_2^2 y_1 + y_1 y_2^2) + 2b_{-2,1,-2,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_2 - y_1 y_2)(x_1 y_2 + x_2 y_1) + \\
& 2b_{-2,1,0,0,0,0,0,0,-2,0}^r (x_1^2 + y_1^2)(x_1 x_5 - y_1 y_5)(x_1 y_5 + x_5 y_1) - 2b_{-2,1,0,0,0,0,2,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_4 + \\
& y_1 y_4)(x_1 y_4 - x_4 y_1) - 2b_{-2,1,0,0,2,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1 x_3 + y_1 y_3)(x_1 y_3 - x_3 y_1) + \\
& b_{-3,0,-1,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2)(x_1^3 y_2 + 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - x_2 y_1^3) + b_{-3,0,-1,0,0,0,0,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_1^3 y_2 + 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - x_2 y_1^3) + b_{-3,0,-1,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2)(x_1^3 y_2 + \\
& 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - x_2 y_1^3) + b_{-3,0,-1,1,0,0,0,0,0,0}^r (x_2^2 + y_2^2)(x_1^3 y_2 + 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - \\
& x_2 y_1^3) + b_{-3,0,0,0,-1,0,1,0,-1,0}^r (x_1^3 x_3 x_4 y_5 - x_1^3 x_3 x_5 y_4 + x_1^3 x_4 x_5 y_3 + x_1^3 y_3 y_4 y_5 + \\
& 3x_1^2 x_3 x_4 x_5 y_1 + 3x_1^2 x_3 y_1 y_4 y_5 - 3x_1^2 x_4 y_1 y_3 y_5 + 3x_1^2 x_5 y_1 y_3 y_4 - 3x_1 x_3 x_4 y_1^2 y_5 + \\
& 3x_1 x_3 x_5 y_1^2 y_4 - 3x_1 x_4 x_5 y_1^2 y_3 - 3x_1 y_1^2 y_3 y_4 y_5 - x_3 x_4 x_5 y_1^3 - x_3 y_1^3 y_4 y_5 + \\
& x_4 y_1^3 y_3 y_5 - x_5 y_1^3 y_3 y_4) + b_{-3,0,0,0,1,0,-1,0,-1,0}^r (x_1^3 x_3 x_4 y_5 + x_1^3 x_3 x_5 y_4 - x_1^3 x_4 x_5 y_3 + \\
& x_1^3 y_3 y_4 y_5 + 3x_1^2 x_3 x_4 x_5 y_1 - 3x_1^2 x_3 y_1 y_4 y_5 + 3x_1^2 x_4 y_1 y_3 y_5 + 3x_1^2 x_5 y_1 y_3 y_4 - \\
& 3x_1 x_3 x_4 y_1^2 y_5 - 3x_1 x_3 x_5 y_1^2 y_4 + 3x_1 x_4 x_5 y_1^2 y_3 - 3x_1 y_1^2 y_3 y_4 y_5 - x_3 x_4 x_5 y_1^3 + \\
& x_3 y_1^3 y_4 y_5 - x_4 y_1^3 y_3 y_5 - x_5 y_1^3 y_3 y_4) - b_{-3,0,0,0,1,0,1,0,1,0}^r (x_1^3 x_3 x_4 y_5 + x_1^3 x_3 x_5 y_4 + \\
& x_1^3 x_4 x_5 y_3 - x_1^3 y_3 y_4 y_5 - 3x_1^2 x_3 x_4 x_5 y_1 + 3x_1^2 x_3 y_1 y_4 y_5 + 3x_1^2 x_4 y_1 y_3 y_5 + \\
& 3x_1^2 x_5 y_1 y_3 y_4 - 3x_1 x_3 x_4 y_1^2 y_5 - 3x_1 x_3 x_5 y_1^2 y_4 - 3x_1 x_4 x_5 y_1^2 y_3 + 3x_1 y_1^2 y_3 y_4 y_5 + \\
& x_3 x_4 x_5 y_1^3 - x_3 y_1^3 y_4 y_5 - x_4 y_1^3 y_3 y_5 - x_5 y_1^3 y_3 y_4) + b_{-3,0,1,0,0,0,0,0,-2,0}^r (2x_1^3 x_2 x_5 y_5 - \\
& x_1^3 x_5^2 y_2 + x_1^3 y_2 y_5^2 + 3x_1^2 x_2 x_5^2 y_1 - 3x_1^2 x_2 y_1 y_5^2 + 6x_1^2 x_5 y_1 y_2 y_5 - \\
& 6x_1 x_2 x_5 y_1^2 y_5 + 3x_1 x_5^2 y_1^2 y_2 - 3x_1 y_1^2 y_2 y_5^2 - x_2 x_5^2 y_1^3 + x_2 y_1^3 y_5^2 - 2x_5 y_1^3 y_2 y_5) - \\
& b_{-3,0,1,0,0,0,2,0,0,0}^r (2x_1^3 x_2 x_4 y_4 + x_1^3 x_4^2 y_2 - x_1^3 y_2 y_4^2 - 3x_1^2 x_2 x_4^2 y_1 + 3x_1^2 x_2 y_1 y_4^2 + \\
& 6x_1^2 x_4 y_1 y_2 y_4 - 6x_1 x_2 x_4 y_1^2 y_4 - 3x_1 x_4^2 y_1^2 y_2 + 3x_1 y_1^2 y_2 y_4^2 + x_2 x_4^2 y_1^3 - \\
& x_2 y_1^3 y_4^2 - 2x_4 y_1^3 y_2 y_4) - b_{-3,0,1,0,2,0,0,0,0,0}^r (2x_1^3 x_2 x_3 y_3 + x_1^3 x_3^2 y_2 - x_1^3 y_2 y_3^2 - \\
& 3x_1^2 x_2 x_3^2 y_1 + 3x_1^2 x_2 y_1 y_3^2 + 6x_1^2 x_3 y_1 y_2 y_3 - 6x_1 x_2 x_3 y_1^2 y_3 - 3x_1 x_3^2 y_1^2 y_2 + \\
& 3x_1 y_1^2 y_2 y_3^2 + x_2 x_3^2 y_1^3 - x_2 y_1^3 y_3^2 - 2x_3 y_1^3 y_2 y_3) + b_{-3,1,-1,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1^3 y_2 + \\
& 3x_1^2 x_2 y_1 - 3x_1 y_1^2 y_2 - x_2 y_1^3) + 4b_{-4,0,0,0,0,0,0,0,0,1}^r x_1 y_1 (x_1 - y_1)(x_1 + y_1)(x_5^2 + y_5^2) + \\
& 4b_{-4,0,0,0,0,0,0,1,0,0}^r x_1 y_1 (x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2) + 4b_{-4,0,0,0,0,1,0,0,0,0}^r x_1 y_1 (x_1 - y_1)(x_1 + y_1)(x_3^2 + \\
& y_3^2) + 4b_{-4,0,0,1,0,0,0,0,0,0}^r x_1 y_1 (x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2) + 4b_{-4,1,0,0,0,0,0,0,0,0}^r x_1 y_1 (x_1 - y_1)(x_1 + \\
& y_1)(x_1^2 + y_1^2) - b_{-5,0,1,0,0,0,0,0,0,0}^r (x_1^5 y_2 - 5x_1^4 x_2 y_1 - 10x_1^3 y_1^2 y_2 + 10x_1^2 x_2 y_1^3 + 5x_1 y_1^4 y_2 - \\
& x_2 y_1^5) - b_{0,0,-1,0,-1,0,-1,0,1,1}^r (x_5^2 + y_5^2)(x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - \\
& x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - b_{0,0,-1,0,-1,0,-1,1,1,0}^r (x_4^2 + y_4^2)(x_2 x_3 x_4 y_5 - \\
& x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) + \\
& b_{0,0,-1,0,-1,0,-3,0,-1,0}^r (x_2 x_3 x_4^3 y_5 + 3x_2 x_3 x_4^2 x_5 y_4 - 3x_2 x_3 x_4 y_4^2 y_5 - x_2 x_3 x_5 y_4^3 + \\
& x_2 x_4^3 x_5 y_3 - 3x_2 x_4^2 y_3 y_4 y_5 - 3x_2 x_4 x_5 y_3 y_4^2 + x_2 y_3 y_4^3 y_5 + x_3 x_4^3 x_5 y_2 - \\
& 3x_3 x_4^2 y_2 y_4 y_5 - 3x_3 x_4 x_5 y_2 y_4^2 + x_3 y_2 y_4^3 y_5 - x_4^3 y_2 y_3 y_5 - 3x_4^2 x_5 y_2 y_3 y_4 + \\
& 3x_4 y_2 y_3 y_4^2 y_5 + x_5 y_2 y_3 y_4^3) + b_{0,0,-1,0,-1,0,1,0,-3,0}^r (3x_2 x_3 x_4 x_5^2 y_5 - x_2 x_3 x_4 y_5^3 - \\
& x_2 x_3 x_5^3 y_4 + 3x_2 x_3 x_5 y_4 y_5^2 + x_2 x_4 x_5^3 y_3 - 3x_2 x_4 x_5 y_3 y_5^2 + 3x_2 x_5^2 y_3 y_4 y_5 - \\
& x_2 y_3 y_4 y_5^3 + x_3 x_4 x_5^3 y_2 - 3x_3 x_4 x_5 y_2 y_5^2 + 3x_3 x_5^2 y_2 y_4 y_5 - x_3 y_2 y_4 y_5^3 - \\
& 3x_4 x_5^2 y_2 y_3 y_5 + x_4 y_2 y_3 y_5^3 + x_5^3 y_2 y_3 y_4 - 3x_5 y_2 y_3 y_4 y_5^2) - \\
& b_{0,0,-1,0,-1,0,1,0,3,0}^r (3x_2 x_3 x_4 x_5^2 y_5 - x_2 x_3 x_4 y_5^3 + x_2 x_3 x_5^3 y_4 - 3x_2 x_3 x_5 y_4 y_5^2 - x_2 x_4 x_5^3 y_3 +
\end{aligned}$$

$$\begin{aligned}
& 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 - x_3x_4x_5^3y_2 + 3x_3x_4x_5y_2y_5^2 + \\
& 3x_3x_5^2y_2y_4y_5 - x_3y_2y_4y_5^3 - 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 - x_5^3y_2y_3y_4 + \\
& 3x_5y_2y_3y_4y_5^2) + b_{0,0,-1,0,-1,0,3,0,-1,0}^r(x_2x_3x_4^3y_5 - 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 + \\
& x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 + 3x_2x_4^2y_3y_4y_5 - 3x_2x_4x_5y_3y_4^2 - x_2y_3y_4^3y_5 + x_3x_4^3x_5y_2 + \\
& 3x_3x_4^2y_2y_4y_5 - 3x_3x_4x_5y_2y_4^2 - x_3y_2y_4^3y_5 - x_4^3y_2y_3y_5 + 3x_4^2x_5y_2y_3y_4 + \\
& 3x_4y_2y_3y_4^2y_5 - x_5y_2y_3y_4^3) - b_{0,0,-1,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,-1,0,-3,0,-1,0,-1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 + 3x_2x_3^2x_4x_5y_3 - 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 - x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 + x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 - \\
& 3x_3^2x_4y_2y_3y_5 - 3x_3^2x_5y_2y_3y_4 - 3x_3x_4x_5y_2y_3^2 + 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 + \\
& x_5y_2y_3^3y_4) - b_{0,0,-1,0,-3,0,1,0,1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 - 3x_2x_3^2x_4x_5y_3 + 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 - x_2y_3^3y_4y_5 - x_3^3x_4x_5y_2 + x_3^3y_2y_4y_5 - \\
& 3x_3^2x_4y_2y_3y_5 - 3x_3^2x_5y_2y_3y_4 + 3x_3x_4x_5y_2y_3^2 - 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 + \\
& x_5y_2y_3^3y_4) + b_{0,0,-1,0,1,0,-1,0,-3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 + x_2x_3x_5^3y_4 - \\
& 3x_2x_3x_5y_4y_5^2 - x_2x_4x_5^3y_3 + 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - x_2y_3y_4y_5^3 + \\
& x_3x_4x_5^3y_2 - 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 + 3x_4x_5^2y_2y_3y_5 - \\
& x_4y_2y_3y_5^3 + x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) - b_{0,0,-1,0,1,0,-1,0,3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 - \\
& x_2x_3x_5^3y_4 + 3x_2x_3x_5y_4y_5^2 + x_2x_4x_5^3y_3 - 3x_2x_4x_5y_3y_5^2 + 3x_2x_5^2y_3y_4y_5 - \\
& x_2y_3y_4y_5^3 - x_3x_4x_5^3y_2 + 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 + \\
& 3x_4x_5^2y_2y_3y_5 - x_4y_2y_3y_5^3 - x_5^3y_2y_3y_4 + 3x_5y_2y_3y_4y_5^2) - b_{0,0,-1,0,1,0,-3,0,1,0}^r(x_2x_3x_4^3y_5 - \\
& 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 + x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 + 3x_2x_4^2y_3y_4y_5 - \\
& 3x_2x_4x_5y_3y_4^2 - x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 - 3x_3x_4^2y_2y_4y_5 + 3x_3x_4x_5y_2y_4^2 + \\
& x_3y_2y_4^3y_5 + x_4^3y_2y_3y_5 - 3x_4^2x_5y_2y_3y_4 - 3x_4y_2y_3y_4^2y_5 + x_5y_2y_3y_4^3) + \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + b_{0,0,-1,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) - \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r(x_2x_3x_4^3y_5 + 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 - x_2x_3x_5y_4^3 + x_2x_4^3x_5y_3 - \\
& 3x_2x_4^2y_3y_4y_5 - 3x_2x_4x_5y_3y_4^2 + x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 + 3x_3x_4^2y_2y_4y_5 + \\
& 3x_3x_4x_5y_2y_4^2 - x_3y_2y_4^3y_5 + x_4^3y_2y_3y_5 + 3x_4^2x_5y_2y_3y_4 - 3x_4y_2y_3y_4^2y_5 - \\
& x_5y_2y_3y_4^3) + b_{0,0,-1,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + b_{0,0,-1,0,3,0,-1,0,-1,0}^r(x_2x_3^3x_4y_5 + x_2x_3^3x_5y_4 - \\
& 3x_2x_3^2x_4x_5y_3 + 3x_2x_3^2y_3y_4y_5 - 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 - \\
& x_2y_3^3y_4y_5 + x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 + 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 - \\
& 3x_3x_4x_5y_2y_3^2 + 3x_3y_2y_3^2y_4y_5 - x_4y_2y_3^3y_5 - x_5y_2y_3^3y_4) - b_{0,0,-1,0,3,0,1,0,1,0}^r(x_2x_3^3x_4y_5 + \\
& x_2x_3^3x_5y_4 + 3x_2x_3^2x_4x_5y_3 - 3x_2x_3^2y_3y_4y_5 - 3x_2x_3x_4y_3^2y_5 - 3x_2x_3x_5y_3^2y_4 - \\
& x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 - x_3^3x_4x_5y_2 + x_3^3y_2y_4y_5 + 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 + \\
& 3x_3x_4x_5y_2y_3^2 - 3x_3y_2y_3^2y_4y_5 - x_4y_2y_3^3y_5 - x_5y_2y_3^3y_4) - b_{0,0,-1,1,-1,0,-1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + \\
& x_5y_2y_3y_4) + b_{0,0,-1,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + 2b_{0,0,-2,0,-2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2y_3y_4 - x_3y_2y_4 - \\
& x_4y_2y_3)(x_2x_3y_4 + x_2x_4y_3 + x_3x_4y_2 - y_2y_3y_4) - 2b_{0,0,-2,0,-2,0,0,0,2,0}^r(x_2x_3x_5 + x_2y_3y_5 + x_3y_2y_5 - \\
& x_5y_2y_3)(x_2x_3y_5 - x_2x_5y_3 - x_3x_5y_2 - y_2y_3y_5) + 2b_{0,0,-2,0,-4,0,0,0,0,0}^r(x_2x_3^2 - x_2y_3^2 -
\end{aligned}$$

$$\begin{aligned}
& 2x_3y_2y_3)(2x_2x_3y_3 + x_3^2y_2 - y_2y_3^2) - 2b_{0,0,-2,0,0,0,-2,0,2,0}^r(x_2x_4x_5 + x_2y_4y_5 + x_4y_2y_5 - \\
& x_5y_2y_4)(x_2x_4y_5 - x_2x_5y_4 - x_4x_5y_2 - y_2y_4y_5) + 2b_{0,0,-2,0,0,0,-4,0,0,0}^r(x_2x_4^2 - x_2y_4^2 - \\
& 2x_4y_2y_4)(2x_2x_4y_4 + x_4^2y_2 - y_2y_4^2) + 2b_{0,0,-2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) - \\
& 2b_{0,0,-2,0,0,0,0,0,4,0}^r(x_2x_5^2 - x_2y_5^2 + 2x_5y_2y_5)(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2) + 2b_{0,0,-2,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) - 2b_{0,0,-2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) - \\
& 2b_{0,0,-2,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) + 2b_{0,0,-2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2x_5 - \\
& y_2y_5)(x_2y_5 + x_5y_2) - 2b_{0,0,-2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) - \\
& 2b_{0,0,-2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) - 2b_{0,0,-2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2x_3 + \\
& y_2y_3)(x_2y_3 - x_3y_2) - 2b_{0,0,-2,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + \\
& 2b_{0,0,-2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) - 2b_{0,0,-2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2x_4 + \\
& y_2y_4)(x_2y_4 - x_4y_2) - 2b_{0,0,-2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2x_3 + y_2y_3)(x_2y_3 - x_3y_2) + \\
& b_{0,0,-3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4y_5 - x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 + \\
& 3x_2^2x_3y_2y_4y_5 - 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 + 3x_2x_3x_5y_2^2y_4 - \\
& 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) + \\
& b_{0,0,-3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 - x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 - \\
& 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 + \\
& 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 + x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) - \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 - x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 + \\
& 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 + 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 - \\
& 3x_2x_4x_5y_2^2y_3 + 3x_2y_2^2y_3y_4y_5 + x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 - x_5y_2^3y_3y_4) + \\
& 4b_{0,0,-4,0,0,0,0,0,0,1}^r(x_2y_2(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) + 4b_{0,0,-4,0,0,0,0,1,0,0}^r(x_2y_2(x_2 - y_2)(x_2 + y_2)(x_4^2 + \\
& y_4^2) + 4b_{0,0,-4,0,0,1,0,0,0,0}^r(x_2y_2(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2) + 4b_{0,0,-4,1,0,0,0,0,0,0}^r(x_2y_2(x_2 - y_2)(x_2 + \\
& y_2)(x_2^2 + y_2^2) + 2b_{0,0,0,0,-2,0,-2,0,-2,0}^r(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4)(x_3x_4y_5 + x_3x_5y_4 + \\
& x_4x_5y_3 - y_3y_4y_5) + 2b_{0,0,0,0,-2,0,0,0,2}^r(x_5^2 + y_5^2)^2 + 2b_{0,0,0,0,-2,0,0,1,0,1}^r(x_3y_3(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) + 2b_{0,0,0,0,-2,0,0,2,0,0}^r(x_3y_3(x_4^2 + y_4^2)^2 - 2b_{0,0,0,0,-2,0,2,0,2,0}^r(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + \\
& x_5y_3y_4)(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5) + 2b_{0,0,0,0,-2,1,0,0,0,1}^r(x_3y_3(x_3^2 + y_3^2)(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,0,-2,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2) + 2b_{0,0,0,0,-2,2,0,0,0,0}^r(x_3y_3(x_3^2 + y_3^2)^2 + \\
& 2b_{0,0,0,0,-4,0,0,0,-2,0}^r(x_3^2x_5 - 2x_3y_3y_5 - x_5y_3^2)(x_3^2y_5 + 2x_3x_5y_3 - y_3^2y_5) - \\
& 2b_{0,0,0,0,-4,0,2,0,0,0}^r(x_3^2x_4 + 2x_3y_3y_4 - x_4y_3^2)(x_3^2y_4 - 2x_3x_4y_3 - y_3^2y_4) + \\
& 2b_{0,0,0,0,0,0,-2,0,0,2}^r(x_4^2 + y_4^2)^2 + 2b_{0,0,0,0,0,0,-2,1,0,1}^r(x_4y_4(x_4^2 + y_4^2)(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,0,0,0,-2,2,0,0}^r(x_4^2 + y_4^2)^2 + 2b_{0,0,0,0,0,0,-4,0,-2,0}^r(x_4^2x_5 - 2x_4y_4y_5 - x_5y_4^2)(x_4^2y_5 + \\
& 2x_4x_5y_4 - y_4^2y_5) + 4b_{0,0,0,0,0,0,0,0,-4,1}^r(x_5y_5(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) - 2b_{0,0,0,0,0,0,0,2,2}^r(x_5y_5(x_5^2 + \\
& y_5^2)^2 + 4b_{0,0,0,0,0,0,0,1,-4,0}^r(x_5y_5(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) - 2b_{0,0,0,0,0,0,0,1,2,1}^r(x_5y_5(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) - 2b_{0,0,0,0,0,0,2,2,0}^r(x_5y_5(x_4^2 + y_4^2)^2 + 2b_{0,0,0,0,0,0,2,0,-2,1}^r(x_5^2 + y_5^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) - \\
& 2b_{0,0,0,0,0,0,2,0,4,0}^r(x_4x_5^2 - x_4y_5^2 - 2x_5y_4y_5)(2x_4x_5y_5 + x_5^2y_4 - y_4y_5^2) + 2b_{0,0,0,0,0,0,2,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) - 4b_{0,0,0,0,0,0,4,0,0,1}^r(x_4y_4(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) - \\
& 4b_{0,0,0,0,0,0,4,1,0,0}^r(x_4y_4(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) + 2b_{0,0,0,0,0,1,-2,0,0,1}^r(x_4y_4(x_3^2 + y_3^2)(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,0,0,1,-2,1,0,0}^r(x_4y_4(x_3^2 + y_3^2)(x_4^2 + y_4^2) + 4b_{0,0,0,0,0,1,0,0,-4,0}^r(x_5y_5(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) - \\
& 2b_{0,0,0,0,0,1,0,0,2,1}^r(x_5y_5(x_3^2 + y_3^2)(x_5^2 + y_5^2) - 2b_{0,0,0,0,0,1,0,1,2,0}^r(x_5y_5(x_3^2 + y_3^2)(x_4^2 + y_4^2) + \\
& 2b_{0,0,0,0,0,1,2,0,-2,0}^r(x_3^2 + y_3^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) - 4b_{0,0,0,0,0,1,4,0,0,0}^r(x_4y_4(x_3^2 + y_3^2)(x_4 - \\
& y_4)(x_4 + y_4) + 2b_{0,0,0,0,0,2,-2,0,0,0}^r(x_4y_4(x_3^2 + y_3^2)^2 - 2b_{0,0,0,0,0,2,0,0,2,0}^r(x_5y_5(x_3^2 + y_3^2)^2 - \\
& 2b_{0,0,0,0,2,0,-2,0,2,0}^r(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4)(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5) +
\end{aligned}$$

$$\begin{aligned}
& 2b_{0,0,0,0,2,0,-4,0,0,0}^r(x_3x_4^2 - x_3y_4^2 + 2x_4y_3y_4)(2x_3x_4y_4 - x_4^2y_3 + y_3y_4^2) + 2b_{0,0,0,0,2,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - 2b_{0,0,0,0,2,0,0,0,4,0}^r(x_3x_5^2 - x_3y_5^2 - 2x_5y_3y_5)(2x_3x_5y_5 + x_5^2y_3 - \\
& y_3y_5^2) + 2b_{0,0,0,0,2,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - 2b_{0,0,0,0,2,0,2,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) - 2b_{0,0,0,0,2,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_3x_4 - y_3y_4)(x_3y_4 + x_4y_3) + \\
& 2b_{0,0,0,0,2,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - 2b_{0,0,0,0,2,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_3x_4 - \\
& y_3y_4)(x_3y_4 + x_4y_3) - 4b_{0,0,0,0,4,0,0,0,0,1}^r x_3y_3(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) - 4b_{0,0,0,0,4,0,0,1,0,0}^r x_3y_3(x_3 - \\
& y_3)(x_3 + y_3)(x_4^2 + y_4^2) - 4b_{0,0,0,0,4,1,0,0,0,0}^r x_3y_3(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) + \\
& 2b_{0,0,0,1,-2,0,0,0,0,1}^r x_3y_3(x_2^2 + y_2^2)(x_5^2 + y_5^2) + 2b_{0,0,0,1,-2,0,0,1,0,0}^r x_3y_3(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& 2b_{0,0,0,1,-2,1,0,0,0,0}^r x_3y_3(x_2^2 + y_2^2)(x_3^2 + y_3^2) + 2b_{0,0,0,1,0,0,-2,0,0,1}^r x_4y_4(x_2^2 + y_2^2)(x_5^2 + y_5^2) + \\
& 2b_{0,0,0,1,0,0,-2,1,0,0}^r x_4y_4(x_2^2 + y_2^2)(x_4^2 + y_4^2) + 4b_{0,0,0,1,0,0,0,0,-4,0}^r x_5y_5(x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) - \\
& 2b_{0,0,0,1,0,0,0,0,2,1}^r x_5y_5(x_2^2 + y_2^2)(x_5^2 + y_5^2) - 2b_{0,0,0,1,0,0,0,1,2,0}^r x_5y_5(x_2^2 + y_2^2)(x_4^2 + y_4^2) + \\
& 2b_{0,0,0,1,0,0,2,0,-2,0}^r(x_2^2 + y_2^2)(x_4x_5 + y_4y_5)(x_4y_5 - x_5y_4) - 4b_{0,0,0,1,0,0,4,0,0,0}^r x_4y_4(x_2^2 + y_2^2)(x_4 - \\
& y_4)(x_4 + y_4) + 2b_{0,0,0,1,0,1,-2,0,0,0}^r x_4y_4(x_2^2 + y_2^2)(x_3^2 + y_3^2) - 2b_{0,0,0,1,0,1,0,0,2,0}^r x_5y_5(x_2^2 + y_2^2)(x_3^2 + \\
& y_3^2) + 2b_{0,0,0,1,2,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_3x_5 + y_3y_5)(x_3y_5 - x_5y_3) - 2b_{0,0,0,1,2,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_3x_4 - \\
& y_3y_4)(x_3y_4 + x_4y_3) - 4b_{0,0,0,1,4,0,0,0,0,0}^r x_3y_3(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3) + 2b_{0,0,0,2,-2,0,0,0,0,0}^r x_3y_3(x_2^2 + \\
& y_2^2)^2 + 2b_{0,0,0,2,0,0,-2,0,0,0}^r x_4y_4(x_2^2 + y_2^2)^2 - 2b_{0,0,0,2,0,0,0,0,2,0}^r x_5y_5(x_2^2 + y_2^2)^2 + \\
& b_{0,0,1,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + b_{0,0,1,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 + \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) - \\
& b_{0,0,1,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) - b_{0,0,1,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,1,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) - b_{0,0,1,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r(x_2x_3^3x_4y_5 - x_2x_3^3x_5y_4 + 3x_2x_3^2x_4x_5y_3 + 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 + 3x_2x_3x_5y_3^2y_4 - x_2x_4x_5y_3^3 - x_2y_3^3y_4y_5 - x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 + \\
& 3x_3^2x_4y_2y_3y_5 - 3x_3^2x_5y_2y_3y_4 + 3x_3x_4x_5y_2y_3^2 + 3x_3y_2y_3^2y_4y_5 - x_4y_2y_3^3y_5 + \\
& x_5y_2y_3^3y_4) - b_{0,0,1,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) - b_{0,0,1,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4y_5 - \\
& x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r(x_2x_3x_4^3y_5 + 3x_2x_3x_4^2x_5y_4 - 3x_2x_3x_4y_4^2y_5 - x_2x_3x_5y_4^3 - x_2x_4^3x_5y_3 + \\
& 3x_2x_4^2y_3y_4y_5 + 3x_2x_4x_5y_3y_4^2 - x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 + 3x_3x_4^2y_2y_4y_5 + \\
& 3x_3x_4x_5y_2y_4^2 - x_3y_2y_4^3y_5 - x_4^3x_5y_2y_3y_4 + 3x_4y_2y_3y_4^2y_5 + \\
& x_5y_2y_3y_4^3) + b_{0,0,1,0,1,0,1,0,-3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 - x_2x_3x_5^3y_4 + 3x_2x_3x_5y_4y_5^2 - \\
& x_2x_4x_5^3y_3 + 3x_2x_4x_5y_3y_5^2 - 3x_2x_5^2y_3y_4y_5 + x_2y_3y_4y_5^3 - x_3x_4x_5^3y_2 + \\
& 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 - 3x_4x_5^2y_2y_3y_5 + x_4y_2y_3y_5^3 + \\
& x_5^3y_2y_3y_4 - 3x_5y_2y_3y_4y_5^2) - b_{0,0,1,0,1,0,1,0,3,0}^r(3x_2x_3x_4x_5^2y_5 - x_2x_3x_4y_5^3 + x_2x_3x_5^3y_4 - \\
& 3x_2x_3x_5y_4y_5^2 + x_2x_4x_5^3y_3 - 3x_2x_4x_5y_3y_5^2 - 3x_2x_5^2y_3y_4y_5 + x_2y_3y_4y_5^3 + \\
& x_3x_4x_5^3y_2 - 3x_3x_4x_5y_2y_5^2 - 3x_3x_5^2y_2y_4y_5 + x_3y_2y_4y_5^3 - 3x_4x_5^2y_2y_3y_5 + \\
& x_4y_2y_3y_5^3 - x_5^3y_2y_3y_4 + 3x_5y_2y_3y_4y_5^2) + b_{0,0,1,0,1,0,3,0,-1,0}^r(x_2x_3x_4^3y_5 - 3x_2x_3x_4^2x_5y_4 - \\
& 3x_2x_3x_4y_4^2y_5 + x_2x_3x_5y_4^3 - x_2x_4^3x_5y_3 - 3x_2x_4^2y_3y_4y_5 + 3x_2x_4x_5y_3y_4^2 +
\end{aligned}$$

$$\begin{aligned}
& x_2y_3y_4^3y_5 - x_3x_4^3x_5y_2 - 3x_3x_4^2y_2y_4y_5 + 3x_3x_4x_5y_2y_4^2 + x_3y_2y_4^3y_5 - x_4^3y_2y_3y_5 + \\
& 3x_4^2x_5y_2y_3y_4 + 3x_4y_2y_3y_4^2y_5 - x_5y_2y_3y_4^3) - b_{0,0,1,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4y_5 - \\
& x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,0,1,0,3,0,1,0,-1,0}^r(x_2x_3^3x_4y_5 - x_2x_3^3x_5y_4 - 3x_2x_3^2x_4x_5y_3 - 3x_2x_3^2y_3y_4y_5 - \\
& 3x_2x_3x_4y_3^2y_5 + 3x_2x_3x_5y_3^2y_4 + x_2x_4x_5y_3^3 + x_2y_3^3y_4y_5 - x_3^3x_4x_5y_2 - x_3^3y_2y_4y_5 - \\
& 3x_3^2x_4y_2y_3y_5 + 3x_3^2x_5y_2y_3y_4 + 3x_3x_4x_5y_2y_3^2 + 3x_3y_2y_3^2y_4y_5 + x_4y_2y_3^3y_5 - \\
& x_5y_2y_3^3y_4) + b_{0,0,1,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 + x_2x_3x_5y_4 + x_2x_4x_5y_3 - x_2y_3y_4y_5 - \\
& x_3x_4x_5y_2 + x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) - b_{0,0,1,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 + \\
& x_2x_3x_5y_4 - x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 - x_3y_2y_4y_5 + x_4y_2y_3y_5 + x_5y_2y_3y_4) - \\
& b_{0,0,1,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 + x_2x_4x_5y_3 + x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + 2b_{0,0,2,0,-2,0,0,0,-2,0}^r(x_2x_3x_5 - x_2y_3y_5 + x_3y_2y_5 + \\
& x_5y_2y_3)(x_2x_3y_5 + x_2x_5y_3 - x_3x_5y_2 + y_2y_3y_5) - 2b_{0,0,2,0,-2,0,2,0,0,0}^r(x_2x_3x_4 + x_2y_3y_4 - x_3y_2y_4 + \\
& x_4y_2y_3)(x_2x_3y_4 - x_2x_4y_3 + x_3x_4y_2 + y_2y_3y_4) + 2b_{0,0,2,0,0,0,-2,0,-2,0}^r(x_2x_4x_5 - x_2y_4y_5 + x_4y_2y_5 + \\
& x_5y_2y_4)(x_2x_4y_5 + x_2x_5y_4 - x_4x_5y_2 + y_2y_4y_5) - 2b_{0,0,2,0,0,0,0,0,0,2}^r x_2y_2(x_5^2 + y_5^2)^2 - \\
& 2b_{0,0,2,0,0,0,0,1,0,1}^r x_2y_2(x_4^2 + y_4^2)(x_5^2 + y_5^2) - 2b_{0,0,2,0,0,0,0,2,0,0}^r x_2y_2(x_4^2 + y_4^2)^2 - \\
& 2b_{0,0,2,0,0,0,2,0,2,0}^r(x_2x_4x_5 - x_2y_4y_5 - x_4y_2y_5 - x_5y_2y_4)(x_2x_4y_5 + x_2x_5y_4 + x_4x_5y_2 - y_2y_4y_5) - \\
& 2b_{0,0,2,0,0,1,0,0,0,1}^r x_2y_2(x_3^2 + y_3^2)(x_5^2 + y_5^2) - 2b_{0,0,2,0,0,1,0,1,0,0}^r x_2y_2(x_3^2 + y_3^2)(x_4^2 + y_4^2) - \\
& 2b_{0,0,2,0,0,2,0,0,0,0}^r x_2y_2(x_3^2 + y_3^2)^2 + 2b_{0,0,2,0,2,0,-2,0,0,0}^r(x_2x_3x_4 + x_2y_3y_4 + x_3y_2y_4 - \\
& x_4y_2y_3)(x_2x_3y_4 - x_2x_4y_3 - x_3x_4y_2 - y_2y_3y_4) - 2b_{0,0,2,0,2,0,0,0,2,0}^r(x_2x_3x_5 - x_2y_3y_5 - x_3y_2y_5 - \\
& x_5y_2y_3)(x_2x_3y_5 + x_2x_5y_3 + x_3x_5y_2 - y_2y_3y_5) - 2b_{0,0,2,1,0,0,0,0,0,1}^r x_2y_2(x_2^2 + y_2^2)(x_5^2 + y_5^2) - \\
& 2b_{0,0,2,1,0,0,0,1,0,0}^r x_2y_2(x_2^2 + y_2^2)(x_4^2 + y_4^2) - 2b_{0,0,2,1,0,1,0,0,0,0}^r x_2y_2(x_2^2 + y_2^2)(x_3^2 + y_3^2) - \\
& 2b_{0,0,2,2,0,0,0,0,0,0}^r x_2y_2(x_2^2 + y_2^2)^2 + b_{0,0,3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4y_5 - x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 + \\
& x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 - 3x_2^2x_3y_2y_4y_5 + 3x_2^2x_4y_2y_3y_5 - 3x_2^2x_5y_2y_3y_4 - \\
& 3x_2x_3x_4y_2^2y_5 + 3x_2x_3x_5y_2^2y_4 - 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 + x_3x_4x_5y_2^3 + \\
& x_3y_2^3y_4y_5 - x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) + b_{0,0,3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4y_5 + x_2^3x_3x_5y_4 - \\
& x_2^3x_4x_5y_3 + x_2^3y_3y_4y_5 - 3x_2^2x_3x_4x_5y_2 + 3x_2^2x_3y_2y_4y_5 - 3x_2^2x_4y_2y_3y_5 - \\
& 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 + 3x_2x_4x_5y_2^2y_3 - 3x_2y_2^2y_3y_4y_5 + \\
& x_3x_4x_5y_2^3 - x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) - b_{0,0,3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4y_5 + \\
& x_2^3x_3x_5y_4 + x_2^3x_4x_5y_3 - x_2^3y_3y_4y_5 + 3x_2^2x_3x_4x_5y_2 - 3x_2^2x_3y_2y_4y_5 - \\
& 3x_2^2x_4y_2y_3y_5 - 3x_2^2x_5y_2y_3y_4 - 3x_2x_3x_4y_2^2y_5 - 3x_2x_3x_5y_2^2y_4 - 3x_2x_4x_5y_2^2y_3 + \\
& 3x_2y_2^2y_3y_4y_5 - x_3x_4x_5y_2^3 + x_3y_2^3y_4y_5 + x_4y_2^3y_3y_5 + x_5y_2^3y_3y_4) + \\
& 2b_{0,0,4,0,0,0,0,0,-2,0}^r(x_2^2x_5 + 2x_2y_2y_5 - x_5y_2^2)(x_2^2y_5 - 2x_2x_5y_2 - y_2^2y_5) - 2b_{0,0,4,0,0,0,2,0,0,0}^r(x_2^2x_4 - \\
& 2x_2y_2y_4 - x_4y_2^2)(x_2^2y_4 + 2x_2x_4y_2 - y_2^2y_4) - 2b_{0,0,4,0,2,0,0,0,0,0}^r(x_2^2x_3 - 2x_2y_2y_3 - \\
& x_3y_2^2)(x_2^2y_3 + 2x_2x_3y_2 - y_2^2y_3) - b_{0,1,-1,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - \\
& x_2x_4x_5y_3 - x_2y_3y_4y_5 - x_3x_4x_5y_2 - x_3y_2y_4y_5 - x_4y_2y_3y_5 + x_5y_2y_3y_4) + \\
& b_{0,1,-1,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4y_5 - x_2x_3x_5y_4 - x_2x_4x_5y_3 - x_2y_3y_4y_5 + x_3x_4x_5y_2 + \\
& x_3y_2y_4y_5 + x_4y_2y_3y_5 - x_5y_2y_3y_4) + 2b_{0,1,-2,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_2x_5 - y_2y_5)(x_2y_5 + x_5y_2) - \\
& 2b_{0,1,-2,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2x_4 + y_2y_4)(x_2y_4 - x_4y_2) - 2b_{0,1,-2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2x_3 + \\
& y_2y_3)(x_2y_3 - x_3y_2) + 4b_{0,1,-4,0,0,0,0,0,0,0}^r x_2y_2(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2) + \\
& 2b_{0,1,0,0,-2,0,0,0,0,1}^r x_3y_3(x_1^2 + y_1^2)(x_5^2 + y_5^2) + 2b_{0,1,0,0,-2,0,0,1,0,0}^r x_3y_3(x_1^2 + y_1^2)(x_4^2 + y_4^2) + \\
& 2b_{0,1,0,0,-2,1,0,0,0,0}^r x_3y_3(x_1^2 + y_1^2)(x_3^2 + y_3^2) + 2b_{0,1,0,0,0,0,-2,0,0,1}^r x_4y_4(x_1^2 + y_1^2)(x_5^2 + y_5^2) + \\
& 2b_{0,1,0,0,0,0,-2,1,0,0}^r x_4y_4(x_1^2 + y_1^2)(x_4^2 + y_4^2) + 4b_{0,1,0,0,0,0,0,0,-4,0}^r x_5y_5(x_1^2 + y_1^2)(x_5 - y_5)(x_5 + y_5) -
\end{aligned}$$

$$\begin{aligned}
& 2b_{0,1,0,0,0,0,0,2,1}^r x_5 y_5 (x_1^2 + y_1^2) (x_5^2 + y_5^2) - 2b_{0,1,0,0,0,0,0,1,2,0}^r x_5 y_5 (x_1^2 + y_1^2) (x_4^2 + y_4^2) + \\
& 2b_{0,1,0,0,0,0,2,0,-2,0}^r (x_1^2 + y_1^2) (x_4 x_5 + y_4 y_5) (x_4 y_5 - x_5 y_4) - 4b_{0,1,0,0,0,0,4,0,0,0}^r x_4 y_4 (x_1^2 + y_1^2) (x_4 - \\
& y_4) (x_4 + y_4) + 2b_{0,1,0,0,0,1,-2,0,0,0}^r x_4 y_4 (x_1^2 + y_1^2) (x_3^2 + y_3^2) - 2b_{0,1,0,0,0,1,0,0,2,0}^r x_5 y_5 (x_1^2 + y_1^2) (x_3^2 + \\
& y_3^2) + 2b_{0,1,0,0,2,0,0,0,-2,0}^r (x_1^2 + y_1^2) (x_3 x_5 + y_3 y_5) (x_3 y_5 - x_5 y_3) - 2b_{0,1,0,0,2,0,2,0,0,0}^r (x_1^2 + y_1^2) (x_3 x_4 - \\
& y_3 y_4) (x_3 y_4 + x_4 y_3) - 4b_{0,1,0,0,4,0,0,0,0,0}^r x_3 y_3 (x_1^2 + y_1^2) (x_3 - y_3) (x_3 + y_3) + 2b_{0,1,0,1,-2,0,0,0,0,0}^r x_3 y_3 (x_1^2 + \\
& y_1^2) (x_2^2 + y_2^2) + 2b_{0,1,0,1,0,0,-2,0,0,0}^r x_4 y_4 (x_1^2 + y_1^2) (x_2^2 + y_2^2) - 2b_{0,1,0,1,0,0,0,0,2,0}^r x_5 y_5 (x_1^2 + \\
& y_1^2) (x_2^2 + y_2^2) + b_{0,1,1,0,-1,0,-1,0,-1,0}^r (x_1^2 + y_1^2) (x_2 x_3 x_4 y_5 + x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 - x_2 y_3 y_4 y_5 - \\
& x_3 x_4 x_5 y_2 + x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - b_{0,1,1,0,-1,0,1,0,1,0}^r (x_1^2 + y_1^2) (x_2 x_3 x_4 y_5 + \\
& x_2 x_3 x_5 y_4 - x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 - x_3 y_2 y_4 y_5 + x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - \\
& b_{0,1,1,0,1,0,-1,0,1,0}^r (x_1^2 + y_1^2) (x_2 x_3 x_4 y_5 - x_2 x_3 x_5 y_4 + x_2 x_4 x_5 y_3 + x_2 y_3 y_4 y_5 + x_3 x_4 x_5 y_2 + \\
& x_3 y_2 y_4 y_5 - x_4 y_2 y_3 y_5 + x_5 y_2 y_3 y_4) - 2b_{0,1,2,0,0,0,0,0,0,1}^r x_2 y_2 (x_1^2 + y_1^2) (x_5^2 + y_5^2) - \\
& 2b_{0,1,2,0,0,0,0,1,0,0}^r x_2 y_2 (x_1^2 + y_1^2) (x_4^2 + y_4^2) - 2b_{0,1,2,0,0,1,0,0,0,0}^r x_2 y_2 (x_1^2 + y_1^2) (x_3^2 + y_3^2) - \\
& 2b_{0,1,2,1,0,0,0,0,0,0}^r x_2 y_2 (x_1^2 + y_1^2) (x_2^2 + y_2^2) + 2b_{0,2,0,0,-2,0,0,0,0,0}^r x_3 y_3 (x_1^2 + y_1^2)^2 + \\
& 2b_{0,2,0,0,0,0,-2,0,0,0}^r x_4 y_4 (x_1^2 + y_1^2)^2 - 2b_{0,2,0,0,0,0,0,2,0}^r x_5 y_5 (x_1^2 + y_1^2)^2 - \\
& 2b_{0,2,2,0,0,0,0,0,0,0}^r x_2 y_2 (x_1^2 + y_1^2)^2 + b_{1,0,-1,0,-2,0,0,0,0,1}^r (x_5^2 + y_5^2) (2x_1 x_2 x_3 y_3 + x_1 x_3^2 y_2 - \\
& x_1 y_2 y_3^2 - x_2 x_3^2 y_1 + x_2 y_1 y_3^2 + 2x_3 y_1 y_2 y_3) + b_{1,0,-1,0,-2,0,0,1,0,0}^r (x_4^2 + y_4^2) (2x_1 x_2 x_3 y_3 + \\
& x_1 x_3^2 y_2 - x_1 y_2 y_3^2 - x_2 x_3^2 y_1 + x_2 y_1 y_3^2 + 2x_3 y_1 y_2 y_3) + b_{1,0,-1,0,-2,1,0,0,0,0}^r (x_3^2 + \\
& y_3^2) (2x_1 x_2 x_3 y_3 + x_1 x_3^2 y_2 - x_1 y_2 y_3^2 - x_2 x_3^2 y_1 + x_2 y_1 y_3^2 + 2x_3 y_1 y_2 y_3) + \\
& b_{1,0,-1,0,0,0,-2,0,0,1}^r (x_5^2 + y_5^2) (2x_1 x_2 x_4 y_4 + x_1 x_4^2 y_2 - x_1 y_2 y_4^2 - x_2 x_4^2 y_1 + x_2 y_1 y_4^2 + \\
& 2x_4 y_1 y_2 y_4) + b_{1,0,-1,0,0,0,-2,1,0,0}^r (x_4^2 + y_4^2) (2x_1 x_2 x_4 y_4 + x_1 x_4^2 y_2 - x_1 y_2 y_4^2 - x_2 x_4^2 y_1 + \\
& x_2 y_1 y_4^2 + 2x_4 y_1 y_2 y_4) + b_{1,0,-1,0,0,0,0,0,-4,0}^r (4x_1 x_2 x_5^3 y_5 - 4x_1 x_2 x_5 y_5^3 + x_1 x_5^4 y_2 - \\
& 6x_1 x_5^2 y_2 y_5^2 + x_1 y_2 y_4^4 - x_2 x_5^4 y_1 + 6x_2 x_5^2 y_1 y_5^2 - x_2 y_1 y_5^4 + 4x_5^3 y_1 y_2 y_5 - \\
& 4x_5 y_1 y_2 y_5^3) - b_{1,0,-1,0,0,0,0,0,2,1}^r (x_5^2 + y_5^2) (2x_1 x_2 x_5 y_5 - x_1 x_5^2 y_2 + x_1 y_2 y_5^2 + x_2 x_5^2 y_1 - \\
& x_2 y_1 y_5^2 + 2x_5 y_1 y_2 y_5) - b_{1,0,-1,0,0,0,0,1,2,0}^r (x_4^2 + y_4^2) (2x_1 x_2 x_5 y_5 - x_1 x_5^2 y_2 + x_1 y_2 y_5^2 + \\
& x_2 x_5^2 y_1 - x_2 y_1 y_5^2 + 2x_5 y_1 y_2 y_5) + b_{1,0,-1,0,0,0,2,0,-2,0}^r (2x_1 x_2 x_4^2 x_5 y_5 - 2x_1 x_2 x_4 x_5^2 y_4 + \\
& 2x_1 x_2 x_4 y_4 y_5^2 - 2x_1 x_2 x_5 y_4^2 y_5 + x_1 x_4^2 x_5^2 y_2 - x_1 x_4^2 y_2 y_5^2 + 4x_1 x_4 x_5 y_2 y_4 y_5 - \\
& x_1 x_5^2 y_2 y_4^2 + x_1 y_2 y_4^2 y_5^2 - x_2 x_4^2 x_5^2 y_1 + x_2 x_4^2 y_1 y_5^2 - 4x_2 x_4 x_5 y_1 y_4 y_5 + \\
& x_2 x_5^2 y_1 y_4^2 - x_2 y_1 y_4^2 y_5^2 + 2x_4^2 x_5 y_1 y_2 y_5 - 2x_4 x_5^2 y_1 y_2 y_4 + 2x_4 y_1 y_2 y_4 y_5^2 - \\
& 2x_5 y_1 y_2 y_4^2 y_5) - b_{1,0,-1,0,0,0,4,0,0,0}^r (4x_1 x_2 x_4^3 y_4 - 4x_1 x_2 x_4 y_4^3 - x_1 x_4^4 y_2 + 6x_1 x_4^2 y_2 y_4^2 - \\
& x_1 y_2 y_4^4 + x_2 x_4^4 y_1 - 6x_2 x_4^2 y_1 y_4^2 + x_2 y_1 y_4^4 + 4x_4^3 y_1 y_2 y_4 - 4x_4 y_1 y_2 y_4^3) + \\
& b_{1,0,-1,0,0,1,-2,0,0,0}^r (x_3^2 + y_3^2) (2x_1 x_2 x_4 y_4 + x_1 x_4^2 y_2 - x_1 y_2 y_4^2 - x_2 x_4^2 y_1 + x_2 y_1 y_4^2 + \\
& 2x_4 y_1 y_2 y_4) - b_{1,0,-1,0,0,1,0,0,2,0}^r (x_3^2 + y_3^2) (2x_1 x_2 x_5 y_5 - x_1 x_5^2 y_2 + x_1 y_2 y_5^2 + x_2 x_5^2 y_1 - \\
& x_2 y_1 y_5^2 + 2x_5 y_1 y_2 y_5) + b_{1,0,-1,0,2,0,0,0,-2,0}^r (2x_1 x_2 x_3^2 x_5 y_5 - 2x_1 x_2 x_3 x_5^2 y_3 + 2x_1 x_2 x_3 y_3 y_5^2 - \\
& 2x_1 x_2 x_5 y_3^2 y_5 + x_1 x_3^2 x_5^2 y_2 - x_1 x_3^2 y_2 y_5^2 + 4x_1 x_3 x_5 y_2 y_3 y_5 - x_1 x_5^2 y_2 y_3^2 + \\
& x_1 y_2 y_3^2 y_5^2 - x_2 x_3^2 x_5^2 y_1 + x_2 x_3^2 y_1 y_5^2 - 4x_2 x_3 x_5 y_1 y_3 y_5 + x_2 x_5^2 y_1 y_3^2 - \\
& x_2 y_1 y_3^2 y_5^2 + 2x_3^2 x_5 y_1 y_2 y_5 - 2x_3 x_5^2 y_1 y_2 y_3 + 2x_3 y_1 y_2 y_3 y_5^2 - 2x_5 y_1 y_2 y_3^2 y_5) - \\
& b_{1,0,-1,0,2,0,2,0,0,0}^r (2x_1 x_2 x_3^2 x_4 y_4 + 2x_1 x_2 x_3 x_4^2 y_3 - 2x_1 x_2 x_3 y_3 y_4^2 - 2x_1 x_2 x_4 y_3^2 y_4 - \\
& x_1 x_3^2 x_4^2 y_2 + x_1 x_3^2 y_2 y_4^2 + 4x_1 x_3 x_4 y_2 y_3 y_4 + x_1 x_4^2 y_2 y_3^2 - x_1 y_2 y_3^2 y_4^2 + \\
& x_2 x_3^2 x_4^2 y_1 - x_2 x_3^2 y_1 y_4^2 - 4x_2 x_3 x_4 y_1 y_3 y_4 - x_2 x_4^2 y_1 y_3^2 + x_2 y_1 y_3^2 y_4^2 + \\
& 2x_3^2 x_4 y_1 y_2 y_4 + 2x_3 x_4^2 y_1 y_2 y_3 - 2x_3 y_1 y_2 y_3 y_4^2 - 2x_4 y_1 y_2 y_3^2 y_4) - \\
& b_{1,0,-1,0,4,0,0,0,0,0}^r (4x_1 x_2 x_3^3 y_3 - 4x_1 x_2 x_3 y_3^3 - x_1 x_3^4 y_2 + 6x_1 x_3^2 y_2 y_3^2 - x_1 y_2 y_3^4 + \\
& x_2 x_3^4 y_1 - 6x_2 x_3^2 y_1 y_3^2 + x_2 y_1 y_3^4 + 4x_3^3 y_1 y_2 y_3 - 4x_3 y_1 y_2 y_3^3) + b_{1,0,-1,1,-2,0,0,0,0,0}^r (x_2^2 +
\end{aligned}$$



$$\begin{aligned}
& y_2^2)(2x_1x_2x_3y_3 + x_1x_3^2y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + \\
& b_{1,0,-1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) - b_{1,0,-1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 + 2x_5y_1y_2y_5) - b_{1,0,-2,0,-1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 - \\
& x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 + 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 + x_2^2x_3x_4x_5y_1 + \\
& x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 - x_4y_1y_2^2y_3y_5 + \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,-2,0,1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 - x_1x_2^2x_4x_5y_3 - \\
& x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 - 2x_1x_2x_5y_2y_3y_4 - \\
& x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 - x_2^2x_3x_4x_5y_1 - \\
& x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 + x_2^2x_5y_1y_3y_4 + 2x_2x_3x_4y_1y_2y_5 - 2x_2x_3x_5y_1y_2y_4 - \\
& 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 + x_4y_1y_2^2y_3y_5 - \\
& x_5y_1y_2^2y_3y_4) + b_{1,0,-3,0,0,0,0,0,-2,0}^r(2x_1x_2^3x_5y_5 + 3x_1x_2^2x_5^2y_2 - 3x_1x_2^2y_2y_5^2 - \\
& 6x_1x_2x_5y_2^2y_5 - x_1x_5^2y_2^3 + x_1y_2^3y_5^2 - x_2^3x_5^2y_1 + x_2^3y_1y_5^2 + 6x_2^2x_5y_1y_2y_5 + \\
& 3x_2x_5^2y_1y_2^2 - 3x_2y_1y_2^2y_5^2 - 2x_5y_1y_2^3y_5) - b_{1,0,-3,0,0,0,2,0,0,0}^r(2x_1x_2^3x_4y_4 - \\
& 3x_1x_2^2x_4^2y_2 + 3x_1x_2^2y_2y_4^2 - 6x_1x_2x_4y_2^2y_4 + x_1x_4^2y_2^3 - x_1y_2^3y_4^2 + x_2^3x_4^2y_1 - \\
& x_2^3y_1y_4^2 + 6x_2^2x_4y_1y_2y_4 - 3x_2x_4^2y_1y_2^2 + 3x_2y_1y_2^2y_4^2 - 2x_4y_1y_2^3y_4) - \\
& b_{1,0,-3,0,2,0,0,0,0,0}^r(2x_1x_2^3x_3y_3 - 3x_1x_2^2x_3^2y_2 + 3x_1x_2^2y_2y_3^2 - 6x_1x_2x_3y_2^2y_3 + \\
& x_1x_3^2y_2^3 - x_1y_2^3y_3^2 + x_2^3x_3^2y_1 - x_2^3y_1y_3^2 + 6x_2^2x_3y_1y_2y_3 - 3x_2x_3^2y_1y_2^2 + \\
& 3x_2y_1y_2^2y_3^2 - 2x_3y_1y_2^3y_3) + b_{1,0,-5,0,0,0,0,0,0,0}^r(5x_1x_2^4y_2 - 10x_1x_2^2y_2^3 + x_1y_2^5 - x_2^5y_1 + \\
& 10x_2^3y_1y_2^2 - 5x_2y_1y_2^4) + b_{1,0,0,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - \\
& x_1y_3y_4y_5 - x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + b_{1,0,0,0,-1,0,-1,1,-1,0}^r(x_4^2 + \\
& y_4^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 + \\
& x_5y_1y_3y_4) - b_{1,0,0,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + \\
& x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,0,0,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 + \\
& x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - x_1y_3y_4y_5 - x_3x_4x_5y_1 + \\
& x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,0,0,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - \\
& x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,-3,0,1,0,-1,0}^r(x_1x_3^3x_4y_5 - x_1x_3^3x_5y_4 + 3x_1x_3^2x_4x_5y_3 + 3x_1x_3^2y_3y_4y_5 - \\
& 3x_1x_3x_4y_3^2y_5 + 3x_1x_3x_5y_3^2y_4 - x_1x_4x_5y_3^3 - x_1y_3^3y_4y_5 - x_3^3x_4x_5y_1 - x_3^3y_1y_4y_5 + \\
& 3x_3^2x_4y_1y_3y_5 - 3x_3^2x_5y_1y_3y_4 + 3x_3x_4x_5y_1y_3^2 + 3x_3y_1y_3^2y_4y_5 - x_4y_1y_3^3y_5 + \\
& x_5y_1y_3^3y_4) - b_{1,0,0,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + \\
& x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,0,0,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4y_5 - \\
& x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) + \\
& b_{1,0,0,0,1,0,-3,0,-1,0}^r(x_1x_3x_4^3y_5 + 3x_1x_3x_4^2x_5y_4 - 3x_1x_3x_4y_4^2y_5 - x_1x_3x_5y_4^3 - x_1x_4^3x_5y_3 + \\
& 3x_1x_4^2y_3y_4y_5 + 3x_1x_4x_5y_3y_4^2 - x_1y_3y_4^3y_5 - x_3x_4^3x_5y_1 + 3x_3x_4^2y_1y_4y_5 + \\
& 3x_3x_4x_5y_1y_4^2 - x_3y_1y_4^3y_5 - x_4^3y_1y_3y_5 - 3x_4^2x_5y_1y_3y_4 + 3x_4y_1y_3y_4^2y_5 + \\
& x_5y_1y_3y_4^3) + b_{1,0,0,0,1,0,1,0,-3,0}^r(3x_1x_3x_4x_5^2y_5 - x_1x_3x_4y_5^3 - x_1x_3x_5^3y_4 + 3x_1x_3x_5y_4y_5^2 - \\
& x_1x_4x_5^3y_3 + 3x_1x_4x_5y_3y_5^2 - 3x_1x_5^2y_3y_4y_5 + x_1y_3y_4y_5^3 - x_3x_4x_5^3y_1 + \\
& 3x_3x_4x_5y_1y_5^2 - 3x_3x_5^2y_1y_4y_5 + x_3y_1y_4y_5^3 - 3x_4x_5^2y_1y_3y_5 + x_4y_1y_3y_5^3 +
\end{aligned}$$

$$\begin{aligned}
& x_3^2 y_1 y_3 y_4 - 3 x_5 y_1 y_3 y_4 y_5^2) - b_{1,0,0,0,1,0,1,0,3,0}^r (3 x_1 x_3 x_4 x_5^2 y_5 - x_1 x_3 x_4 y_5^3 + x_1 x_3 x_5^3 y_4 - \\
& 3 x_1 x_3 x_5 y_4 y_5^2 + x_1 x_4 x_5^3 y_3 - 3 x_1 x_4 x_5 y_3 y_5^2 - 3 x_1 x_5^2 y_3 y_4 y_5 + x_1 y_3 y_4 y_5^3 + \\
& x_3 x_4 x_5^3 y_1 - 3 x_3 x_4 x_5 y_1 y_5^2 - 3 x_3 x_5^2 y_1 y_4 y_5 + x_3 y_1 y_4 y_5^3 - 3 x_4 x_5^2 y_1 y_3 y_5 + \\
& x_4 y_1 y_3 y_5^3 - x_5^3 y_1 y_3 y_4 + 3 x_5 y_1 y_3 y_4 y_5^2) + b_{1,0,0,0,1,0,3,0,-1,0}^r (x_1 x_3 x_4^3 y_5 - 3 x_1 x_3 x_4^2 x_5 y_4 - \\
& 3 x_1 x_3 x_4 y_4^2 y_5 + x_1 x_3 x_5 y_4^3 - x_1 x_4^3 x_5 y_3 - 3 x_1 x_4^2 y_3 y_4 y_5 + 3 x_1 x_4 x_5 y_3 y_4^2 + \\
& x_1 y_3 y_4^3 y_5 - x_3 x_4^3 x_5 y_1 - 3 x_3 x_4^2 y_1 y_4 y_5 + 3 x_3 x_4 x_5 y_1 y_4^2 + x_3 y_1 y_4^3 y_5 - x_4^3 y_1 y_3 y_5 + \\
& 3 x_4^2 x_5 y_1 y_3 y_4 + 3 x_4 y_1 y_3 y_4^2 y_5 - x_5 y_1 y_3 y_4^3) - b_{1,0,0,0,1,1,-1,0,1,0}^r (x_3^2 + y_3^2)(x_1 x_3 x_4 y_5 - \\
& x_1 x_3 x_5 y_4 + x_1 x_4 x_5 y_3 + x_1 y_3 y_4 y_5 + x_3 x_4 x_5 y_1 + x_3 y_1 y_4 y_5 - x_4 y_1 y_3 y_5 + x_5 y_1 y_3 y_4) + \\
& b_{1,0,0,0,3,0,1,0,-1,0}^r (x_1 x_3^3 x_4 y_5 - x_1 x_3^3 x_5 y_4 - 3 x_1 x_3^2 x_4 x_5 y_3 - 3 x_1 x_3^2 y_3 y_4 y_5 - \\
& 3 x_1 x_3 x_4 y_3^2 y_5 + 3 x_1 x_3 x_5 y_3^2 y_4 + x_1 x_4 x_5 y_3^3 + x_1 y_3^3 y_4 y_5 - x_3^3 x_4 x_5 y_1 - x_3^3 y_1 y_4 y_5 - \\
& 3 x_3^2 x_4 y_1 y_3 y_5 + 3 x_3^2 x_5 y_1 y_3 y_4 + 3 x_3 x_4 x_5 y_1 y_3^2 + 3 x_3 y_1 y_3^2 y_4 y_5 + x_4 y_1 y_3^3 y_5 - \\
& x_5 y_1 y_3^3 y_4) + b_{1,0,0,1,-1,0,-1,0,-1,0}^r (x_2^2 + y_2^2)(x_1 x_3 x_4 y_5 + x_1 x_3 x_5 y_4 + x_1 x_4 x_5 y_3 - x_1 y_3 y_4 y_5 - \\
& x_3 x_4 x_5 y_1 + x_3 y_1 y_4 y_5 + x_4 y_1 y_3 y_5 + x_5 y_1 y_3 y_4) - b_{1,0,0,1,-1,0,1,0,1,0}^r (x_2^2 + y_2^2)(x_1 x_3 x_4 y_5 + \\
& x_1 x_3 x_5 y_4 - x_1 x_4 x_5 y_3 + x_1 y_3 y_4 y_5 + x_3 x_4 x_5 y_1 - x_3 y_1 y_4 y_5 + x_4 y_1 y_3 y_5 + x_5 y_1 y_3 y_4) - \\
& b_{1,0,0,1,1,0,-1,0,1,0}^r (x_2^2 + y_2^2)(x_1 x_3 x_4 y_5 - x_1 x_3 x_5 y_4 + x_1 x_4 x_5 y_3 + x_1 y_3 y_4 y_5 + x_3 x_4 x_5 y_1 + \\
& x_3 y_1 y_4 y_5 - x_4 y_1 y_3 y_5 + x_5 y_1 y_3 y_4) + b_{1,0,1,0,-2,0,0,0,-2,0}^r (2 x_1 x_2 x_3^2 x_5 y_5 + 2 x_1 x_2 x_3 x_5^2 y_3 - \\
& 2 x_1 x_2 x_3 y_3 y_5^2 - 2 x_1 x_2 x_5 y_3^2 y_5 - x_1 x_3^2 x_5^2 y_2 + x_1 x_3^2 y_2 y_5^2 + 4 x_1 x_3 x_5 y_2 y_3 y_5 + \\
& x_1 x_5^2 y_2 y_3^2 - x_1 y_2 y_3^2 y_5^2 - x_2 x_3^2 x_5^2 y_1 + x_2 x_3^2 y_1 y_5^2 + 4 x_2 x_3 x_5 y_1 y_3 y_5 + \\
& x_2 x_5^2 y_1 y_3^2 - x_2 y_1 y_3^2 y_5^2 - 2 x_3^2 x_5 y_1 y_2 y_5 - 2 x_3 x_5^2 y_1 y_2 y_3 + 2 x_3 y_1 y_2 y_3 y_5^2 + \\
& 2 x_5 y_1 y_2 y_3^2 y_5) - b_{1,0,1,0,-2,0,2,0,0,0}^r (2 x_1 x_2 x_3^2 x_4 y_4 - 2 x_1 x_2 x_3 x_4^2 y_3 + 2 x_1 x_2 x_3 y_3 y_4^2 - \\
& 2 x_1 x_2 x_4 y_3^2 y_4 + x_1 x_3^2 x_4^2 y_2 - x_1 x_3^2 y_2 y_4^2 + 4 x_1 x_3 x_4 y_2 y_3 y_4 - x_1 x_4^2 y_2 y_3^2 + \\
& x_1 y_2 y_3^2 y_4^2 + x_2 x_3^2 x_4^2 y_1 - x_2 x_3^2 y_1 y_4^2 + 4 x_2 x_3 x_4 y_1 y_3 y_4 - x_2 x_4^2 y_1 y_3^2 + \\
& x_2 y_1 y_3^2 y_4^2 - 2 x_3^2 x_4 y_1 y_2 y_4 + 2 x_3 x_4^2 y_1 y_2 y_3 - 2 x_3 y_1 y_2 y_3 y_4^2 + 2 x_4 y_1 y_2 y_3^2 y_4) + \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r (2 x_1 x_2 x_4^2 x_5 y_5 + 2 x_1 x_2 x_4 x_5^2 y_4 - 2 x_1 x_2 x_4 y_4 y_5^2 - 2 x_1 x_2 x_5 y_4^2 y_5 - \\
& x_1 x_4^2 x_5^2 y_2 + x_1 x_4^2 y_2 y_5^2 + 4 x_1 x_4 x_5 y_2 y_4 y_5 + x_1 x_5^2 y_2 y_4^2 - x_1 y_2 y_4^2 y_5^2 - \\
& x_2 x_4^2 x_5^2 y_1 + x_2 x_4^2 y_1 y_5^2 + 4 x_2 x_4 x_5 y_1 y_4 y_5 + x_2 x_5^2 y_1 y_4^2 - x_2 y_1 y_4^2 y_5^2 - \\
& 2 x_4^2 x_5 y_1 y_2 y_5 - 2 x_4 x_5^2 y_1 y_2 y_4 + 2 x_4 y_1 y_2 y_4 y_5^2 + 2 x_5 y_1 y_2 y_4^2 y_5) - b_{1,0,1,0,0,0,0,0,0,2}^r (x_5^2 + \\
& y_5^2)^2 (x_1 y_2 + x_2 y_1) - b_{1,0,1,0,0,0,0,1,0,1}^r (x_4^2 + y_4^2)(x_5^2 + y_5^2)(x_1 y_2 + x_2 y_1) - b_{1,0,1,0,0,0,0,2,0,0}^r (x_4^2 + \\
& y_4^2)^2 (x_1 y_2 + x_2 y_1) - b_{1,0,1,0,0,0,2,0,2,0}^r (2 x_1 x_2 x_4^2 x_5 y_5 + 2 x_1 x_2 x_4 x_5^2 y_4 - 2 x_1 x_2 x_4 y_4 y_5^2 - \\
& 2 x_1 x_2 x_5 y_4^2 y_5 + x_1 x_4^2 x_5^2 y_2 - x_1 x_4^2 y_2 y_5^2 - 4 x_1 x_4 x_5 y_2 y_4 y_5 - x_1 x_5^2 y_2 y_4^2 + \\
& x_1 y_2 y_4^2 y_5^2 + x_2 x_4^2 x_5^2 y_1 - x_2 x_4^2 y_1 y_5^2 - 4 x_2 x_4 x_5 y_1 y_4 y_5 - x_2 x_5^2 y_1 y_4^2 + \\
& x_2 y_1 y_4^2 y_5^2 - 2 x_4^2 x_5 y_1 y_2 y_5 - 2 x_4 x_5^2 y_1 y_2 y_4 + 2 x_4 y_1 y_2 y_4 y_5^2 + 2 x_5 y_1 y_2 y_4^2 y_5) - \\
& b_{1,0,1,0,0,1,0,0,0,1}^r (x_3^2 + y_3^2)(x_5^2 + y_5^2)(x_1 y_2 + x_2 y_1) - b_{1,0,1,0,0,1,0,1,0,0}^r (x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1 y_2 + \\
& x_2 y_1) - b_{1,0,1,0,0,2,0,0,0,0}^r (x_3^2 + y_3^2)^2 (x_1 y_2 + x_2 y_1) + b_{1,0,1,0,2,0,-2,0,0,0}^r (2 x_1 x_2 x_3^2 x_4 y_4 - \\
& 2 x_1 x_2 x_3 x_4^2 y_3 + 2 x_1 x_2 x_3 y_3 y_4^2 - 2 x_1 x_2 x_4 y_3^2 y_4 - x_1 x_3^2 x_4^2 y_2 + x_1 x_3^2 y_2 y_4^2 - \\
& 4 x_1 x_3 x_4 y_2 y_3 y_4 + x_1 x_4^2 y_2 y_3^2 - x_1 y_2 y_3^2 y_4^2 - x_2 x_3^2 x_4^2 y_1 + x_2 x_3^2 y_1 y_4^2 - \\
& 4 x_2 x_3 x_4 y_1 y_3 y_4 + x_2 x_4^2 y_1 y_3^2 - x_2 y_1 y_3^2 y_4^2 - 2 x_3^2 x_4 y_1 y_2 y_4 + 2 x_3 x_4^2 y_1 y_2 y_3 - \\
& 2 x_3 y_1 y_2 y_3 y_4^2 + 2 x_4 y_1 y_2 y_3^2 y_4) - b_{1,0,1,0,2,0,0,0,2,0}^r (2 x_1 x_2 x_3^2 x_5 y_5 + 2 x_1 x_2 x_3 x_5^2 y_3 - \\
& 2 x_1 x_2 x_3 y_3 y_5^2 - 2 x_1 x_2 x_5 y_3^2 y_5 + x_1 x_3^2 x_5^2 y_2 - x_1 x_3^2 y_2 y_5^2 - 4 x_1 x_3 x_5 y_2 y_3 y_5 - \\
& x_1 x_5^2 y_2 y_3^2 + x_1 y_2 y_3^2 y_5^2 + x_2 x_3^2 x_5^2 y_1 - x_2 x_3^2 y_1 y_5^2 - 4 x_2 x_3 x_5 y_1 y_3 y_5 - \\
& x_2 x_5^2 y_1 y_3^2 + x_2 y_1 y_3^2 y_5^2 - 2 x_3^2 x_5 y_1 y_2 y_5 - 2 x_3 x_5^2 y_1 y_2 y_3 + 2 x_3 y_1 y_2 y_3 y_5^2 + \\
& 2 x_5 y_1 y_2 y_3^2 y_5) - b_{1,0,1,1,0,0,0,0,0,1}^r (x_2^2 + y_2^2)(x_5^2 + y_5^2)(x_1 y_2 + x_2 y_1) - b_{1,0,1,1,0,0,0,1,0,0}^r (x_2^2 +
\end{aligned}$$

$$\begin{aligned}
& y_2^2)(x_4^2 + y_4^2)(x_1y_2 + x_2y_1) - b_{1,0,1,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_1y_2 + x_2y_1) - \\
& b_{1,0,1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1y_2 + x_2y_1) + b_{1,0,2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 - x_1x_2^2x_3x_5y_4 + \\
& x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 + 2x_1x_2x_4y_2y_3y_5 - \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 + x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - \\
& x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 + x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 + \\
& 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 - \\
& x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{1,0,2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 - \\
& x_1x_2^2x_4x_5y_3 + x_1x_2^2y_3y_4y_5 - 2x_1x_2x_3x_4x_5y_2 + 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 + x_1x_4x_5y_2^2y_3 - x_1y_2^2y_3y_4y_5 - \\
& x_2^2x_3x_4x_5y_1 + x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - \\
& 2x_2x_3x_5y_1y_2y_4 + 2x_2x_4x_5y_1y_2y_3 - 2x_2y_1y_2y_3y_4y_5 + x_3x_4x_5y_1y_2^2 - x_3y_1y_2^2y_4y_5 + \\
& x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) - b_{1,0,2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4y_5 + x_1x_2^2x_3x_5y_4 + \\
& x_1x_2^2x_4x_5y_3 - x_1x_2^2y_3y_4y_5 + 2x_1x_2x_3x_4x_5y_2 - 2x_1x_2x_3y_2y_4y_5 - 2x_1x_2x_4y_2y_3y_5 - \\
& 2x_1x_2x_5y_2y_3y_4 - x_1x_3x_4y_2^2y_5 - x_1x_3x_5y_2^2y_4 - x_1x_4x_5y_2^2y_3 + x_1y_2^2y_3y_4y_5 + \\
& x_2^2x_3x_4x_5y_1 - x_2^2x_3y_1y_4y_5 - x_2^2x_4y_1y_3y_5 - x_2^2x_5y_1y_3y_4 - 2x_2x_3x_4y_1y_2y_5 - \\
& 2x_2x_3x_5y_1y_2y_4 - 2x_2x_4x_5y_1y_2y_3 + 2x_2y_1y_2y_3y_4y_5 - x_3x_4x_5y_1y_2^2 + x_3y_1y_2^2y_4y_5 + \\
& x_4y_1y_2^2y_3y_5 + x_5y_1y_2^2y_3y_4) + b_{1,0,3,0,0,0,0,0,-2,0}^r(2x_1x_2^3x_5y_5 - 3x_1x_2^2x_5^2y_2 + \\
& 3x_1x_2^2y_2y_5^2 - 6x_1x_2x_5y_2^2y_5 + x_1x_5^2y_2^3 - x_1y_2^3y_5^2 - x_2^3x_5^2y_1 + x_2^3y_1y_5^2 - \\
& 6x_2^2x_5y_1y_2y_5 + 3x_2x_5^2y_1y_2^2 - 3x_2y_1y_2^2y_5^2 + 2x_5y_1y_2^3y_5) - \\
& b_{1,0,3,0,0,0,2,0,0,0}^r(2x_1x_2^3x_4y_4 + 3x_1x_2^2x_4^2y_2 - 3x_1x_2^2y_2y_4^2 - 6x_1x_2x_4y_2^2y_4 - \\
& x_1x_4^2y_2^3 + x_1y_2^3y_4^2 + x_2^3x_4^2y_1 - x_2^3y_1y_4^2 - 6x_2^2x_4y_1y_2y_4 - 3x_2x_4^2y_1y_2^2 + \\
& 3x_2y_1y_2^2y_4^2 + 2x_4y_1y_2^3y_4) - b_{1,0,3,0,2,0,0,0,0,0}^r(2x_1x_2^3x_3y_3 + 3x_1x_2^2x_3^2y_2 - \\
& 3x_1x_2^2y_2y_3^2 - 6x_1x_2x_3y_2^2y_3 - x_1x_3^2y_2^3 + x_1y_2^3y_3^2 + x_2^3x_3^2y_1 - x_2^3y_1y_3^2 - \\
& 6x_2^2x_3y_1y_2y_3 - 3x_2x_3^2y_1y_2^2 + 3x_2y_1y_2^2y_3^2 + 2x_3y_1y_2^3y_3) + b_{1,1,-1,0,-2,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(2x_1x_2x_3y_3 + x_1x_2^3y_2 - x_1y_2y_3^2 - x_2x_3^2y_1 + x_2y_1y_3^2 + 2x_3y_1y_2y_3) + \\
& b_{1,1,-1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(2x_1x_2x_4y_4 + x_1x_4^2y_2 - x_1y_2y_4^2 - x_2x_4^2y_1 + x_2y_1y_4^2 + \\
& 2x_4y_1y_2y_4) - b_{1,1,-1,0,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(2x_1x_2x_5y_5 - x_1x_5^2y_2 + x_1y_2y_5^2 + x_2x_5^2y_1 - \\
& x_2y_1y_5^2 + 2x_5y_1y_2y_5) + b_{1,1,0,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 + x_1x_4x_5y_3 - \\
& x_1y_3y_4y_5 - x_3x_4x_5y_1 + x_3y_1y_4y_5 + x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,1,0,0,-1,0,1,0,1,0}^r(x_1^2 + \\
& y_1^2)(x_1x_3x_4y_5 + x_1x_3x_5y_4 - x_1x_4x_5y_3 + x_1y_3y_4y_5 + x_3x_4x_5y_1 - x_3y_1y_4y_5 + x_4y_1y_3y_5 + \\
& x_5y_1y_3y_4) - b_{1,1,0,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4y_5 - x_1x_3x_5y_4 + x_1x_4x_5y_3 + x_1y_3y_4y_5 + \\
& x_3x_4x_5y_1 + x_3y_1y_4y_5 - x_4y_1y_3y_5 + x_5y_1y_3y_4) - b_{1,1,1,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1y_2 + \\
& x_2y_1) - b_{1,1,1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1y_2 + x_2y_1) - b_{1,1,1,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2)(x_1y_2 + x_2y_1) - b_{1,1,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_1y_2 + x_2y_1) - b_{1,2,1,0,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)^2(x_1y_2 + x_2y_1) + b_{2,0,-1,0,-1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + x_1^2x_2x_4x_5y_3 - \\
& x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - x_1^2x_5y_2y_3y_4 - \\
& 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) - b_{2,0,-1,0,-1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 +
\end{aligned}$$

$$\begin{aligned}
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) - b_{2,0,-1,0,1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 + 2x_1x_2x_5y_1y_3y_4 + \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + 2b_{2,0,-2,0,-2,0,0,0,0,0}^r(x_1x_2x_3 - x_1y_2y_3 + x_2y_1y_3 + \\
& x_3y_1y_2)(x_1x_2y_3 + x_1x_3y_2 - x_2x_3y_1 + y_1y_2y_3) + 2b_{2,0,-2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 - x_1y_2y_4 + x_2y_1y_4 + \\
& x_4y_1y_2)(x_1x_2y_4 + x_1x_4y_2 - x_2x_4y_1 + y_1y_2y_4) - 2b_{2,0,-2,0,0,0,0,2,0}^r(x_1x_2x_5 + x_1y_2y_5 - x_2y_1y_5 + \\
& x_5y_1y_2)(x_1x_2y_5 - x_1x_5y_2 + x_2x_5y_1 + y_1y_2y_5) + 2b_{2,0,0,0,-2,0,0,0,-2,0}^r(x_1x_3x_5 - x_1y_3y_5 + x_3y_1y_5 + \\
& x_5y_1y_3)(x_1x_3y_5 + x_1x_5y_3 - x_3x_5y_1 + y_1y_3y_5) - 2b_{2,0,0,0,-2,0,2,0,0,0}^r(x_1x_3x_4 + x_1y_3y_4 - x_3y_1y_4 + \\
& x_4y_1y_3)(x_1x_3y_4 - x_1x_4y_3 + x_3x_4y_1 + y_1y_3y_4) + 2b_{2,0,0,0,0,0,-2,0,-2,0}^r(x_1x_4x_5 - x_1y_4y_5 + x_4y_1y_5 + \\
& x_5y_1y_4)(x_1x_4y_5 + x_1x_5y_4 - x_4x_5y_1 + y_1y_4y_5) - 2b_{2,0,0,0,0,0,0,0,2}^rx_1y_1(x_5^2 + y_5^2)^2 - \\
& 2b_{2,0,0,0,0,0,0,1,0,1}^rx_1y_1(x_4^2 + y_4^2)(x_5^2 + y_5^2) - 2b_{2,0,0,0,0,0,0,2,0,0}^rx_1y_1(x_4^2 + y_4^2)^2 - \\
& 2b_{2,0,0,0,0,0,2,0,2,0}^r(x_1x_4x_5 - x_1y_4y_5 - x_4y_1y_5 - x_5y_1y_4)(x_1x_4y_5 + x_1x_5y_4 + x_4x_5y_1 - y_1y_4y_5) - \\
& 2b_{2,0,0,0,0,1,0,0,0,1}^rx_1y_1(x_3^2 + y_3^2)(x_5^2 + y_5^2) - 2b_{2,0,0,0,0,1,0,1,0,0}^rx_1y_1(x_3^2 + y_3^2)(x_4^2 + y_4^2) - \\
& 2b_{2,0,0,0,0,2,0,0,0,0}^rx_1y_1(x_3^2 + y_3^2)^2 + 2b_{2,0,0,0,2,0,-2,0,0,0}^r(x_1x_3x_4 + x_1y_3y_4 + x_3y_1y_4 - \\
& x_4y_1y_3)(x_1x_3y_4 - x_1x_4y_3 - x_3x_4y_1 - y_1y_3y_4) - 2b_{2,0,0,0,2,0,0,0,2,0}^r(x_1x_3x_5 - x_1y_3y_5 - x_3y_1y_5 - \\
& x_5y_1y_3)(x_1x_3y_5 + x_1x_5y_3 + x_3x_5y_1 - y_1y_3y_5) - 2b_{2,0,0,1,0,0,0,0,0,1}^rx_1y_1(x_2^2 + y_2^2)(x_5^2 + y_5^2) - \\
& 2b_{2,0,0,1,0,0,0,1,0,0}^rx_1y_1(x_2^2 + y_2^2)(x_4^2 + y_4^2) - 2b_{2,0,0,1,0,1,0,0,0,0}^rx_1y_1(x_2^2 + y_2^2)(x_3^2 + y_3^2) - \\
& 2b_{2,0,0,2,0,0,0,0,0,0}^rx_1y_1(x_2^2 + y_2^2)^2 + b_{2,0,1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 - x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 + x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 + 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 + 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 + \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 - \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + b_{2,0,1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 - \\
& x_1^2x_2x_4x_5y_3 + x_1^2x_2y_3y_4y_5 - x_1^2x_3x_4x_5y_2 + x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 - 2x_1x_2x_3x_4x_5y_1 + 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 + 2x_1x_4x_5y_1y_2y_3 - 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 + x_2x_4x_5y_1^2y_3 - x_2y_1^2y_3y_4y_5 + x_3x_4x_5y_1^2y_2 - x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) - b_{2,0,1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4y_5 + x_1^2x_2x_3x_5y_4 + \\
& x_1^2x_2x_4x_5y_3 - x_1^2x_2y_3y_4y_5 + x_1^2x_3x_4x_5y_2 - x_1^2x_3y_2y_4y_5 - x_1^2x_4y_2y_3y_5 - \\
& x_1^2x_5y_2y_3y_4 + 2x_1x_2x_3x_4x_5y_1 - 2x_1x_2x_3y_1y_4y_5 - 2x_1x_2x_4y_1y_3y_5 - 2x_1x_2x_5y_1y_3y_4 - \\
& 2x_1x_3x_4y_1y_2y_5 - 2x_1x_3x_5y_1y_2y_4 - 2x_1x_4x_5y_1y_2y_3 + 2x_1y_1y_2y_3y_4y_5 - x_2x_3x_4y_1^2y_5 - \\
& x_2x_3x_5y_1^2y_4 - x_2x_4x_5y_1^2y_3 + x_2y_1^2y_3y_4y_5 - x_3x_4x_5y_1^2y_2 + x_3y_1^2y_2y_4y_5 + \\
& x_4y_1^2y_2y_3y_5 + x_5y_1^2y_2y_3y_4) + 2b_{2,0,2,0,0,0,0,0,-2,0}^r(x_1x_2x_5 + x_1y_2y_5 + x_2y_1y_5 - \\
& x_5y_1y_2)(x_1x_2y_5 - x_1x_5y_2 - x_2x_5y_1 - y_1y_2y_5) - 2b_{2,0,2,0,0,0,2,0,0,0}^r(x_1x_2x_4 - x_1y_2y_4 - x_2y_1y_4 - \\
& x_4y_1y_2)(x_1x_2y_4 + x_1x_4y_2 + x_2x_4y_1 - y_1y_2y_4) - 2b_{2,0,2,0,2,0,0,0,0,0}^r(x_1x_2x_3 - x_1y_2y_3 - x_2y_1y_3 - \\
& x_3y_1y_2)(x_1x_2y_3 + x_1x_3y_2 + x_2x_3y_1 - y_1y_2y_3) - 2b_{2,1,0,0,0,0,0,0,0,1}^rx_1y_1(x_1^2 + y_1^2)(x_5^2 + y_5^2) - \\
& 2b_{2,1,0,0,0,0,0,1,0,0}^rx_1y_1(x_1^2 + y_1^2)(x_4^2 + y_4^2) - 2b_{2,1,0,0,0,1,0,0,0,0}^rx_1y_1(x_1^2 + y_1^2)(x_3^2 + y_3^2) - \\
& 2b_{2,1,0,1,0,0,0,0,0,0}^rx_1y_1(x_1^2 + y_1^2)(x_2^2 + y_2^2) - 2b_{2,2,0,0,0,0,0,0,0,0}^rx_1y_1(x_1^2 + y_1^2)^2 +
\end{aligned}$$

$$\begin{aligned}
& b_{3,0,-1,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + b_{3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + b_{3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1^3y_2 - \\
& 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + b_{3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^3y_2 - 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + \\
& x_2y_1^3) + b_{3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4y_5 - x_1^3x_3x_5y_4 + x_1^3x_4x_5y_3 + x_1^3y_3y_4y_5 - \\
& 3x_1^2x_3x_4x_5y_1 - 3x_1^2x_3y_1y_4y_5 + 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4x_5y_1^2y_5 + \\
& 3x_1x_3x_5y_1^2y_4 - 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 + x_3y_1^3y_4y_5 - \\
& x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + b_{3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 - x_1^3x_4x_5y_3 + \\
& x_1^3y_3y_4y_5 - 3x_1^2x_3x_4x_5y_1 + 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 - 3x_1^2x_5y_1y_3y_4 - \\
& 3x_1x_3x_4x_5y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 + 3x_1x_4x_5y_1^2y_3 - 3x_1y_1^2y_3y_4y_5 + x_3x_4x_5y_1^3 - \\
& x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) - b_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4y_5 + x_1^3x_3x_5y_4 + \\
& x_1^3x_4x_5y_3 - x_1^3y_3y_4y_5 + 3x_1^2x_3x_4x_5y_1 - 3x_1^2x_3y_1y_4y_5 - 3x_1^2x_4y_1y_3y_5 - \\
& 3x_1^2x_5y_1y_3y_4 - 3x_1x_3x_4x_5y_1^2y_5 - 3x_1x_3x_5y_1^2y_4 - 3x_1x_4x_5y_1^2y_3 + 3x_1y_1^2y_3y_4y_5 - \\
& x_3x_4x_5y_1^3 + x_3y_1^3y_4y_5 + x_4y_1^3y_3y_5 + x_5y_1^3y_3y_4) + b_{3,0,1,0,0,0,0,0,-2,0}^r(2x_1^3x_2x_5y_5 - \\
& x_1^3x_5^2y_2 + x_1^3y_2y_5^2 - 3x_1^2x_2x_5^2y_1 + 3x_1^2x_2y_1y_5^2 - 6x_1^2x_5y_1y_2y_5 - \\
& 6x_1x_2x_5y_1^2y_5 + 3x_1x_5^2y_1^2y_2 - 3x_1y_1^2y_2y_5^2 + x_2x_5^2y_1^3 - x_2y_1^3y_5^2 + 2x_5y_1^3y_2y_5) - \\
& b_{3,0,1,0,0,0,2,0,0,0}^r(2x_1^3x_2x_4y_4 + x_1^3x_4^2y_2 - x_1^3y_2y_4^2 + 3x_1^2x_2x_4y_1 - 3x_1^2x_2y_1y_4^2 - \\
& 6x_1^2x_4y_1y_2y_4 - 6x_1x_2x_4y_1^2y_4 - 3x_1x_4^2y_1^2y_2 + 3x_1y_1^2y_2y_4^2 - x_2x_4^2y_1^3 + \\
& x_2y_1^3y_4^2 + 2x_4y_1^3y_2y_4) - b_{3,0,1,0,2,0,0,0,0,0}^r(2x_1^3x_2x_3y_3 + x_1^3x_3^2y_2 - x_1^3y_2y_3^2 + \\
& 3x_1^2x_2x_3^2y_1 - 3x_1^2x_2y_1y_3^2 - 6x_1^2x_3y_1y_2y_3 - 6x_1x_2x_3y_1^2y_3 - 3x_1x_3^2y_1^2y_2 + \\
& 3x_1y_1^2y_2y_3^2 - x_2x_3^2y_1^3 + x_2y_1^3y_3^2 + 2x_3y_1^3y_2y_3) + b_{3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^3y_2 - \\
& 3x_1^2x_2y_1 - 3x_1y_1^2y_2 + x_2y_1^3) + 2b_{4,0,-2,0,0,0,0,0,0,0}^r(x_1^2x_2 + 2x_1y_1y_2 - x_2y_1^2)(x_1^2y_2 - \\
& 2x_1x_2y_1 - y_1^2y_2) + 2b_{4,0,0,0,0,0,0,0,-2,0}^r(x_1^2x_5 + 2x_1y_1y_5 - x_5y_1^2)(x_1^2y_5 - 2x_1x_5y_1 - y_1^2y_5) - \\
& 2b_{4,0,0,0,0,0,2,0,0,0}^r(x_1^2x_4 - 2x_1y_1y_4 - x_4y_1^2)(x_1^2y_4 + 2x_1x_4y_1 - y_1^2y_4) - 2b_{4,0,0,0,2,0,0,0,0,0}^r(x_1^2x_3 - \\
& 2x_1y_1y_3 - x_3y_1^2)(x_1^2y_3 + 2x_1x_3y_1 - y_1^2y_3)
\end{aligned}$$

$$\begin{aligned}
H_{YY}^{(6)} = & a_{0,0,0,0,0,0,0,0,0,3}^r(x_5^2 + y_5^2)^3 + a_{0,0,0,0,0,0,0,0,6,0}^r(x_5 - y_5)(x_5 + y_5)(x_5^2 - 4x_5y_5 + y_5^2)(x_5^2 + 4x_5y_5 + \\
& y_5^2) + a_{0,0,0,0,0,0,0,1,0,2}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,0,0,2,0,1}^r(x_4^2 + y_4^2)^2(x_5^2 + y_5^2) + \\
& a_{0,0,0,0,0,0,0,3,0,0}^r(x_4^2 + y_4^2)^3 + a_{0,0,0,0,0,0,2,0,-4,0}^r(x_4(x_5^2 - 2x_5y_5 - y_5^2) + y_4(x_5^2 + 2x_5y_5 - \\
& y_5^2))(x_4(x_5^2 + 2x_5y_5 - y_5^2) + y_4(-x_5^2 + 2x_5y_5 + y_5^2)) + a_{0,0,0,0,0,0,2,0,2,1}^r(x_5^2 + y_5^2)(x_4(x_5 - y_5) + y_4(- \\
& x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,0,2,1,2,0}^r(x_4^2 + y_4^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + \\
& y_4(x_5 - y_5)) + a_{0,0,0,0,0,0,4,0,-2,0}^r(x_4(-2x_5y_4 + 2y_4y_5) + x_5(x_4^2 - y_4^2) + y_5(x_4^2 - y_4^2))(x_4(2x_5y_4 + \\
& 2y_4y_5) + x_5(x_4^2 - y_4^2) + y_5(-x_4^2 + y_4^2)) + a_{0,0,0,0,0,0,6,0,0,0}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 - 4x_4y_4 + y_4^2)(x_4^2 + \\
& 4x_4y_4 + y_4^2) + a_{0,0,0,0,0,1,0,0,0,2}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,0,0,1,0,1,0,1}^r(x_3^2 + y_3^2)(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2) + a_{0,0,0,0,0,1,0,2,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)^2 + a_{0,0,0,0,0,1,2,0,2,0}^r(x_3^2 + y_3^2)(x_4(x_5 - y_5) + \\
& y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,0,0,2,0,0,0,1}^r(x_3^2 + y_3^2)^2(x_5^2 + y_5^2) + \\
& a_{0,0,0,0,0,2,0,1,0,0}^r(x_3^2 + y_3^2)^2(x_4^2 + y_4^2) + a_{0,0,0,0,0,3,0,0,0,0}^r(x_3^2 + y_3^2)^3 + a_{0,0,0,0,2,0,-2,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,0,-2,1,0,0}^r(x_4^2 + y_4^2)(x_3(x_4 - y_4) + \\
& y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,0,0,0,-4,0}^r(x_3(x_5^2 - 2x_5y_5 - y_5^2) + y_3(x_5^2 + 2x_5y_5 - \\
& y_5^2))(x_3(x_5^2 + 2x_5y_5 - y_5^2) + y_3(-x_5^2 + 2x_5y_5 + y_5^2)) + a_{0,0,0,0,2,0,0,0,2,1}^r(x_5^2 + y_5^2)(x_3(x_5 - y_5) + y_3(- \\
& x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,0,0,0,2,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + \\
& y_3(x_5 - y_5)) + a_{0,0,0,0,2,0,2,0,-2,0}^r(x_3(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5) + y_3(x_4x_5 + x_4y_5 - x_5y_4 + \\
& y_4y_5))(x_3(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + y_3(-x_4x_5 + x_4y_5 - x_5y_4 - y_4y_5)) + a_{0,0,0,0,2,0,4,0,0,0}^r(x_3(x_4^2 -
\end{aligned}$$

$$\begin{aligned}
& 2x_4y_4 - y_4^2) + y_3(-x_4^2 - 2x_4y_4 + y_4^2)(x_3(x_4^2 + 2x_4y_4 - y_4^2) + y_3(x_4^2 - 2x_4y_4 - y_4^2)) + \\
& a_{0,0,0,0,2,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,0,2,1,0,0,2,0}^r(x_3^2 + \\
& y_3^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,0,0,0,4,0,0,0,-2,0}^r(x_3(-2x_5y_3 + 2y_3y_5) + \\
& x_5(x_3^2 - y_3^2) + y_5(x_3^2 - y_3^2))(x_3(2x_5y_3 + 2y_3y_5) + x_5(x_3^2 - y_3^2) + y_5(-x_3^2 + y_3^2)) + \\
& a_{0,0,0,0,4,0,2,0,0,0}^r(x_3(-2x_4y_3 - 2y_3y_4) + x_4(x_3^2 - y_3^2) + y_4(-x_3^2 + y_3^2))(x_3(2x_4y_3 - 2y_3y_4) + x_4(x_3^2 - \\
& y_3^2) + y_4(x_3^2 - y_3^2)) + a_{0,0,0,0,6,0,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 - 4x_3y_3 + y_3^2)(x_3^2 + 4x_3y_3 + y_3^2) + \\
& a_{0,0,0,1,0,0,0,0,0,2}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2)^2 + a_{0,0,0,1,0,0,0,1,0,1}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + \\
& a_{0,0,0,1,0,0,0,2,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)^2 + a_{0,0,0,1,0,0,2,0,2,0}^r(x_2^2 + y_2^2)(x_4(x_5 - y_5) + y_4(-x_5 - \\
& y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + a_{0,0,0,1,0,1,0,0,0,1}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_5^2 + y_5^2) + \\
& a_{0,0,0,1,0,1,0,1,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_4^2 + y_4^2) + a_{0,0,0,1,0,2,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)^2 + \\
& a_{0,0,0,1,2,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_3(x_4 - y_4) + y_3(x_4 + y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,0,0,1,2,0,0,0,2,0}^r(x_2^2 + \\
& y_2^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + y_3(x_5 - y_5)) + a_{0,0,0,2,0,0,0,0,0,1}^r(x_2^2 + y_2^2)^2(x_5^2 + y_5^2) + \\
& a_{0,0,0,2,0,0,0,1,0,0}^r(x_2^2 + y_2^2)^2(x_4^2 + y_4^2) + a_{0,0,0,2,0,1,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_3^2 + y_3^2) + \\
& a_{0,0,0,3,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^3 + a_{0,0,1,0,-1,0,-1,0,-3,0}^r(x_2(x_3x_4x_5^3 - 3x_3x_4x_5y_5^2 - 3x_3x_5^2y_4y_5 + \\
& x_3y_4y_5^3 - 3x_4x_5^2y_3y_5 + x_4y_3y_5^3 - x_5^3y_3y_4 + 3x_5y_3y_4y_5^2) + y_2(3x_3x_4x_5^2y_5 - \\
& x_3x_4y_5^3 + x_3x_5^3y_4 - 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - 3x_4x_5y_3y_5^2 - 3x_5^2y_3y_4y_5 + y_3y_4y_5^3)) + \\
& a_{0,0,1,0,-1,0,-1,0,3,0}^r(x_2(x_3x_4x_5^3 - 3x_3x_4x_5y_5^2 + 3x_3x_5^2y_4y_5 - x_3y_4y_5^3 + 3x_4x_5^2y_3y_5 - \\
& x_4y_3y_5^3 - x_5^3y_3y_4 + 3x_5y_3y_4y_5^2) + y_2(-3x_3x_4x_5^2y_5 + x_3x_4y_5^3 + x_3x_5^3y_4 - \\
& 3x_3x_5y_4y_5^2 + x_4x_5^3y_3 - 3x_4x_5y_3y_5^2 + 3x_5^2y_3y_4y_5 - y_3y_4y_5^3)) + \\
& a_{0,0,1,0,-1,0,-3,0,1,0}^r(x_2(x_3x_4^3x_5 + 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 - x_3y_4^3y_5 + x_4^3y_3y_5 - \\
& 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 + x_5y_3y_4^3) + y_2(-x_3x_4^3y_5 + 3x_3x_4^2x_5y_4 + 3x_3x_4y_4^2y_5 - \\
& x_3x_5y_4^3 + x_3^3x_5y_3 + 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 - y_3y_4^3y_5)) + a_{0,0,1,0,-1,0,1,0,-1,1}^r(x_5^2 + \\
& y_5^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,1,0,-1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,-1,0,3,0,1,0}^r(x_2(x_3x_4^3x_5 - 3x_3x_4^2y_4y_5 - 3x_3x_4x_5y_4^2 + x_3y_4^3y_5 + \\
& x_4^3y_3y_5 + 3x_4^2x_5y_3y_4 - 3x_4y_3y_4^2y_5 - x_5y_3y_4^3) + y_2(-x_3x_4^3y_5 - 3x_3x_4^2x_5y_4 + \\
& 3x_3x_4y_4^2y_5 + x_3x_5y_4^3 + x_4^3x_5y_3 - 3x_4^2y_3y_4y_5 - 3x_4x_5y_3y_4^2 + y_3y_4^3y_5)) + \\
& a_{0,0,1,0,-1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 - x_3x_5y_4 + \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,-3,0,-1,0,1,0}^r(x_2(x_3^3x_4x_5 + x_3^3y_4y_5 + 3x_3^2x_4y_3y_5 - 3x_3^2x_5y_3y_4 - \\
& 3x_3x_4x_5y_3^2 - 3x_3y_3^2y_4y_5 - x_4y_3^3y_5 + x_5y_3^3y_4) + y_2(-x_3^3x_4y_5 + x_3^3x_5y_4 + \\
& 3x_3^2x_4x_5y_3 + 3x_3^2y_3y_4y_5 + 3x_3x_4y_3^2y_5 - 3x_3x_5y_3^2y_4 - x_4x_5y_3^3 - y_3^3y_4y_5)) + \\
& a_{0,0,1,0,1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + \\
& y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - \\
& x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,0,1,1,1,0}^r(x_4^2 + \\
& y_4^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,1,0,1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,0,3,0,-1,0,1,0}^r(x_2(x_3^3x_4x_5 + x_3^3y_4y_5 - \\
& 3x_3^2x_4y_3y_5 + 3x_3^2x_5y_3y_4 - 3x_3x_4x_5y_3^2 - 3x_3y_3^2y_4y_5 + x_4y_3^3y_5 - x_5y_3^3y_4) + y_2(- \\
& x_3^3x_4y_5 + x_3^3x_5y_4 - 3x_3^2x_4x_5y_3 - 3x_3^2y_3y_4y_5 + 3x_3x_4y_3^2y_5 - 3x_3x_5y_3^2y_4 + \\
& x_4x_5y_3^3 + y_3^3y_4y_5)) + a_{0,0,1,1,-1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) +
\end{aligned}$$

$$\begin{aligned}
& y_2(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,1,1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + \\
& x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,0,1,1,1,0,1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,0,2,0,-2,0,-2,0,0,0}^r(x_2(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4) + y_2(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4))(x_2(x_3x_4 + x_3y_4 + \\
& x_4y_3 - y_3y_4) + y_2(-x_3x_4 + x_3y_4 + x_4y_3 + y_3y_4)) + a_{0,0,2,0,-2,0,0,0,2,0}^r(x_2(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5) + \\
& y_2(-x_3x_5 - x_3y_5 + x_5y_3 - y_3y_5))(x_2(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) + y_2(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)) + \\
& a_{0,0,2,0,-4,0,0,0,0,0}^r(x_2(x_3^2 - 2x_3y_3 - y_3^2) + y_2(x_3^2 + 2x_3y_3 - y_3^2))(x_2(x_3^2 + 2x_3y_3 - y_3^2) + y_2(-x_3^2 + \\
& 2x_3y_3 + y_3^2)) + a_{0,0,2,0,0,0,-2,0,2,0}^r(x_2(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5) + y_2(-x_4x_5 - x_4y_5 + x_5y_4 - \\
& y_4y_5))(x_2(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + y_2(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)) + a_{0,0,2,0,0,0,-4,0,0,0}^r(x_2(x_4^2 - \\
& 2x_4y_4 - y_4^2) + y_2(x_4^2 + 2x_4y_4 - y_4^2))(x_2(x_4^2 + 2x_4y_4 - y_4^2) + y_2(-x_4^2 + 2x_4y_4 + y_4^2)) + \\
& a_{0,0,2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,0,0,4,0}^r(x_2(x_5^2 - 2x_5y_5 - y_5^2) + y_2(-x_5^2 - 2x_5y_5 + y_5^2))(x_2(x_5^2 + 2x_5y_5 - y_5^2) + y_2(x_5^2 - \\
& 2x_5y_5 - y_5^2)) + a_{0,0,2,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + \\
& a_{0,0,2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,0,0,2,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2(x_5 - y_5) + \\
& y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,0,2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + \\
& y_4) + y_2(x_4 - y_4)) + a_{0,0,2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + \\
& a_{0,0,2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,0,2,0,2,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,0,2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2(x_5 - y_5) + \\
& y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,0,2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + \\
& y_4) + y_2(x_4 - y_4)) + a_{0,0,2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2(x_3 - y_3) + y_2(-x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + \\
& a_{0,0,3,0,-1,0,-1,0,1,0}^r(x_2(-3x_3x_4x_5y_2^2 - 3x_3y_2^2y_4y_5 - 3x_4y_2^2y_3y_5 + 3x_5y_2^2y_3y_4) + \\
& x_3(x_2^3x_4x_5 + x_2^3y_4y_5 + x_4y_2^3y_5 - x_5y_2^3y_4) + y_2(-3x_2^2x_3x_4y_5 + 3x_2^2x_3x_5y_4 + \\
& 3x_2^2x_4x_5y_3 + 3x_2^2y_3y_4y_5) + y_3(x_2^3x_4y_5 - x_2^3x_5y_4 - x_4x_5y_2^3 - y_2^3y_4y_5)) + \\
& a_{0,0,3,0,1,0,1,0,-1,0}^r(x_2(-3x_3x_4x_5y_2^2 - 3x_3y_2^2y_4y_5 - 3x_4y_2^2y_3y_5 + 3x_5y_2^2y_3y_4) + \\
& x_3(x_2^3x_4x_5 + x_2^3y_4y_5 - x_4y_2^3y_5 + x_5y_2^3y_4) + y_2(3x_2^2x_3x_4y_5 - 3x_2^2x_3x_5y_4 - \\
& 3x_2^2x_4x_5y_3 - 3x_2^2y_3y_4y_5) + y_3(x_2^3x_4y_5 - x_2^3x_5y_4 + x_4x_5y_2^3 + y_2^3y_4y_5)) + \\
& a_{0,0,4,0,-2,0,0,0,0,0}^r(x_2(-2x_3y_2 + 2y_2y_3) + x_3(x_2^2 - y_2^2) + y_3(x_2^2 - y_2^2))(x_2(2x_3y_2 + 2y_2y_3) + x_3(x_2^2 - \\
& y_2^2) + y_3(-x_2^2 + y_2^2)) + a_{0,0,4,0,0,0,-2,0,0,0}^r(x_2(-2x_4y_2 + 2y_2y_4) + x_4(x_2^2 - y_2^2) + y_4(x_2^2 - \\
& y_2^2))(x_2(2x_4y_2 + 2y_2y_4) + x_4(x_2^2 - y_2^2) + y_4(-x_2^2 + y_2^2)) + a_{0,0,4,0,0,0,0,0,2,0}^r(x_2(-2x_5y_2 - 2y_2y_5) + \\
& x_5(x_2^2 - y_2^2) + y_5(-x_2^2 + y_2^2))(x_2(2x_5y_2 - 2y_2y_5) + x_5(x_2^2 - y_2^2) + y_5(x_2^2 - y_2^2)) + \\
& a_{0,0,6,0,0,0,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 - 4x_2y_2 + y_2^2)(x_2^2 + 4x_2y_2 + y_2^2) + a_{0,1,0,0,0,0,0,0,0,2}^r(x_1^2 + \\
& y_1^2)(x_5^2 + y_5^2)^2 + a_{0,1,0,0,0,0,0,1,0,1}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,0,0,2,0,0}^r(x_1^2 + \\
& y_1^2)(x_4^2 + y_4^2)^2 + a_{0,1,0,0,0,0,2,0,2,0}^r(x_1^2 + y_1^2)(x_4(x_5 - y_5) + y_4(-x_5 - y_5))(x_4(x_5 + y_5) + y_4(x_5 - y_5)) + \\
& a_{0,1,0,0,0,1,0,0,0,1}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_5^2 + y_5^2) + a_{0,1,0,0,0,1,0,1,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_4^2 + \\
& y_4^2) + a_{0,1,0,0,0,2,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)^2 + a_{0,1,0,0,2,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_3(x_4 - y_4) + y_3(x_4 + \\
& y_4))(x_3(x_4 + y_4) + y_3(-x_4 + y_4)) + a_{0,1,0,0,2,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_3(x_5 - y_5) + y_3(-x_5 - y_5))(x_3(x_5 + y_5) + \\
& y_3(x_5 - y_5)) + a_{0,1,0,1,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_5^2 + y_5^2) + a_{0,1,0,1,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_2^2 + \\
& y_2^2)(x_4^2 + y_4^2) + a_{0,1,0,1,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_3^2 + y_3^2) + a_{0,1,0,2,0,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_2^2 + y_2^2)^2 + a_{0,1,1,0,-1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + \\
& y_2(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + a_{0,1,1,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_2(x_3x_4x_5 - x_3y_4y_5 + \\
& x_4y_3y_5 + x_5y_3y_4) + y_2(x_3x_4y_5 + x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{0,1,1,0,1,0,1,0,1,0}^r(x_1^2 +
\end{aligned}$$

$$\begin{aligned}
& y_1^2)(x_2(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_2(-x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{0,1,2,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_2(x_5 - y_5) + y_2(x_5 + y_5))(x_2(x_5 + y_5) + y_2(-x_5 + y_5)) + a_{0,1,2,0,0,0,2,0,0,0}^r(x_1^2 + \\
& y_1^2)(x_2(x_4 - y_4) + y_2(-x_4 - y_4))(x_2(x_4 + y_4) + y_2(x_4 - y_4)) + a_{0,1,2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2(x_3 - y_3) + y_2(- \\
& x_3 - y_3))(x_2(x_3 + y_3) + y_2(x_3 - y_3)) + a_{0,2,0,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)^2(x_5^2 + y_5^2) + a_{0,2,0,0,0,0,0,1,0,0}^r(x_1^2 + \\
& y_1^2)^2(x_4^2 + y_4^2) + a_{0,2,0,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_3^2 + y_3^2) + a_{0,2,0,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_2^2 + \\
& y_2^2) + a_{0,3,0,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^3 + a_{1,0,-1,0,-2,0,0,0,-2,0}^r(x_1(x_2x_3^2x_5^2 - x_2x_3^2y_5^2 - \\
& 4x_2x_3x_5y_3y_5 - x_2x_5^2y_3^2 + x_2y_3^2y_5^2 - 2x_3^2x_5y_2y_5 - 2x_3x_5^2y_2y_3 + 2x_3y_2y_3y_5^2 + \\
& 2x_5y_2y_3^2y_5) + y_1(2x_2x_3^2x_5y_5 + 2x_2x_3x_5^2y_3 - 2x_2x_3y_3y_5^2 - 2x_2x_5y_3^2y_5 + x_3^2x_5^2y_2 - \\
& x_3^2y_2y_5^2 - 4x_3x_5y_2y_3y_5 - x_5^2y_2y_3^2 + y_2y_3^2y_5^2)) + a_{1,0,-1,0,-2,0,2,0,0,0}^r(x_1(x_2x_3^2x_4^2 - \\
& x_2x_3^2y_4^2 + 4x_2x_3x_4y_3y_4 - x_2x_4^2y_3^2 + x_2y_3^2y_4^2 + 2x_3^2x_4y_2y_4 - 2x_3x_4^2y_2y_3 + \\
& 2x_3y_2y_3y_4^2 - 2x_4y_2y_3^2y_4) + y_1(-2x_2x_3^2x_4y_4 + 2x_2x_3x_4^2y_3 - 2x_2x_3y_3y_4^2 + \\
& 2x_2x_4y_3^2y_4 + x_3^2x_4^2y_2 - x_3^2y_2y_4^2 + 4x_3x_4y_2y_3y_4 - x_4^2y_2y_3^2 + y_2y_3^2y_4^2)) + \\
& a_{1,0,-1,0,0,0,-2,0,-2,0}^r(x_1(x_2x_4^2x_5^2 - x_2x_4^2y_5^2 - 4x_2x_4x_5y_4y_5 - x_2x_5^2y_4^2 + x_2y_4^2y_5^2 - \\
& 2x_4^2x_5y_2y_5 - 2x_4x_5^2y_2y_4 + 2x_4y_2y_4y_5^2 + 2x_5y_2y_4^2y_5) + y_1(2x_2x_4^2x_5y_5 + \\
& 2x_2x_4x_5^2y_4 - 2x_2x_4y_4y_5^2 - 2x_2x_5y_4^2y_5 + x_4^2x_5^2y_2 - x_4^2y_2y_5^2 - 4x_4x_5y_2y_4y_5 - \\
& x_5^2y_2y_4^2 + y_2y_4^2y_5^2)) + a_{1,0,-1,0,0,0,0,0,0,2}^r(x_5^2 + y_5^2)^2(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,0,0,1,0,1}^r(x_4^2 + \\
& y_4^2)(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,0,0,2,0,0}^r(x_4^2 + y_4^2)^2(x_1x_2 + y_1y_2) + \\
& a_{1,0,-1,0,0,0,2,0,2,0}^r(x_1(x_2x_4^2x_5^2 - x_2x_4^2y_5^2 - 4x_2x_4x_5y_4y_5 - x_2x_5^2y_4^2 + x_2y_4^2y_5^2 + \\
& 2x_4^2x_5y_2y_5 + 2x_4x_5^2y_2y_4 - 2x_4y_2y_4y_5^2 - 2x_5y_2y_4^2y_5) + y_1(-2x_2x_4^2x_5y_5 - \\
& 2x_2x_4x_5^2y_4 + 2x_2x_4y_4y_5^2 + 2x_2x_5y_4^2y_5 + x_4^2x_5^2y_2 - x_4^2y_2y_5^2 - 4x_4x_5y_2y_4y_5 - \\
& x_5^2y_2y_4^2 + y_2y_4^2y_5^2)) + a_{1,0,-1,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2)(x_1x_2 + y_1y_2) + \\
& a_{1,0,-1,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,0,0,2,0,0,0,0}^r(x_3^2 + y_3^2)^2(x_1x_2 + y_1y_2) + \\
& a_{1,0,-1,0,2,0,-2,0,0,0}^r(x_1(x_2x_3^2x_4^2 - x_2x_3^2y_4^2 + 4x_2x_3x_4y_3y_4 - x_2x_4^2y_3^2 + x_2y_3^2y_4^2 - \\
& 2x_3^2x_4y_2y_4 + 2x_3x_4^2y_2y_3 - 2x_3y_2y_3y_4^2 + 2x_4y_2y_3^2y_4) + y_1(2x_2x_3^2x_4y_4 - \\
& 2x_2x_3x_4^2y_3 + 2x_2x_3y_3y_4^2 - 2x_2x_4y_3^2y_4 + x_3^2x_4^2y_2 - x_3^2y_2y_4^2 + 4x_3x_4y_2y_3y_4 - \\
& x_4^2y_2y_3^2 + y_2y_3^2y_4^2)) + a_{1,0,-1,0,2,0,0,0,2,0}^r(x_1(x_2x_3^2x_5^2 - x_2x_3^2y_5^2 - 4x_2x_3x_5y_3y_5 - \\
& x_2x_5^2y_3^2 + x_2y_3^2y_5^2 + 2x_3^2x_5y_2y_5 + 2x_3x_5^2y_2y_3 - 2x_3y_2y_3y_5^2 - 2x_5y_2y_3^2y_5) + y_1(- \\
& 2x_2x_3^2x_5y_5 - 2x_2x_3x_5^2y_3 + 2x_2x_3y_3y_5^2 + 2x_2x_5y_3^2y_5 + x_3^2x_5^2y_2 - x_3^2y_2y_5^2 - \\
& 4x_3x_5y_2y_3y_5 - x_5^2y_2y_3^2 + y_2y_3^2y_5^2)) + a_{1,0,-1,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2)(x_1x_2 + \\
& y_1y_2) + a_{1,0,-1,1,0,0,0,1,0,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + \\
& y_3^2)(x_1x_2 + y_1y_2) + a_{1,0,-1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1x_2 + y_1y_2) + \\
& a_{1,0,-2,0,-1,0,-1,0,-1,0}^r(x_1(x_2^2x_3x_4x_5 - x_2^2x_3y_4y_5 - x_2^2x_4y_3y_5 - x_2^2x_5y_3y_4 - 2x_2x_3x_4y_2y_5 - \\
& 2x_2x_3x_5y_2y_4 - 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 + x_3y_2^2y_4y_5 + x_4y_2^2y_3y_5 + \\
& x_5y_2^2y_3y_4) + y_1(x_2^2x_3x_4y_5 + x_2^2x_3x_5y_4 + x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 + 2x_2x_3x_4x_5y_2 - \\
& 2x_2x_3y_2y_4y_5 - 2x_2x_4y_2y_3y_5 - 2x_2x_5y_2y_3y_4 - x_3x_4y_2^2y_5 - x_3x_5y_2^2y_4 - x_4x_5y_2^2y_3 + \\
& y_2^2y_3y_4y_5)) + a_{1,0,-2,0,-1,0,1,0,1,0}^r(x_1(x_2^2x_3x_4x_5 - x_2^2x_3y_4y_5 + x_2^2x_4y_3y_5 + x_2^2x_5y_3y_4 + \\
& 2x_2x_3x_4y_2y_5 + 2x_2x_3x_5y_2y_4 - 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 + x_3y_2^2y_4y_5 - \\
& x_4y_2^2y_3y_5 - x_5y_2^2y_3y_4) + y_1(-x_2^2x_3x_4y_5 - x_2^2x_3x_5y_4 + x_2^2x_4x_5y_3 - x_2^2y_3y_4y_5 + \\
& 2x_2x_3x_4x_5y_2 - 2x_2x_3y_2y_4y_5 + 2x_2x_4y_2y_3y_5 + 2x_2x_5y_2y_3y_4 + x_3x_4y_2^2y_5 + x_3x_5y_2^2y_4 - \\
& x_4x_5y_2^2y_3 + y_2^2y_3y_4y_5)) + a_{1,0,-2,0,1,0,-1,0,1,0}^r(x_1(x_2^2x_3x_4x_5 + x_2^2x_3y_4y_5 - x_2^2x_4y_3y_5 + \\
& x_2^2x_5y_3y_4 + 2x_2x_3x_4y_2y_5 - 2x_2x_3x_5y_2y_4 + 2x_2x_4x_5y_2y_3 + 2x_2y_2y_3y_4y_5 - x_3x_4x_5y_2^2 - \\
& x_3y_2^2y_4y_5 + x_4y_2^2y_3y_5 - x_5y_2^2y_3y_4) + y_1(-x_2^2x_3x_4y_5 + x_2^2x_3x_5y_4 - x_2^2x_4x_5y_3 -
\end{aligned}$$



$$\begin{aligned}
& x_2^2 y_3 y_4 y_5 + 2x_2 x_3 x_4 x_5 y_2 + 2x_2 x_3 y_2 y_4 y_5 - 2x_2 x_4 y_2 y_3 y_5 + 2x_2 x_5 y_2 y_3 y_4 + x_3 x_4 y_2^2 y_5 - \\
& x_3 x_5 y_2^2 y_4 + x_4 x_5 y_2^2 y_3 + y_2^2 y_3 y_4 y_5)) + a_{1,0,-3,0,-2,0,0,0,0}^r (x_1 (x_2^3 x_3^2 - x_2^3 y_3^2 - \\
& 6x_2^2 x_3 y_2 y_3 - 3x_2 x_3^2 y_2^2 + 3x_2 y_2^2 y_3^2 + 2x_3 y_2^3 y_3) + y_1 (2x_2^3 x_3 y_3 + 3x_2^2 x_3^2 y_2 - \\
& 3x_2^2 y_2 y_3^2 - 6x_2 x_3 y_2^2 y_3 - x_2^2 y_2^3 + y_2^3 y_3^2)) + a_{1,0,-3,0,0,0,-2,0,0,0}^r (x_1 (x_2^3 x_4^2 - x_2^3 y_4^2 - \\
& 6x_2^2 x_4 y_2 y_4 - 3x_2 x_4^2 y_2^2 + 3x_2 y_2^2 y_4^2 + 2x_4 y_2^3 y_4) + y_1 (2x_2^3 x_4 y_4 + 3x_2^2 x_4^2 y_2 - \\
& 3x_2^2 y_2 y_4^2 - 6x_2 x_4 y_2^2 y_4 - x_2^2 y_2^3 + y_2^3 y_4^2)) + a_{1,0,-3,0,0,0,0,2,0}^r (x_1 (x_2^3 x_5^2 - x_2^3 y_5^2 + \\
& 6x_2^2 x_5 y_2 y_5 - 3x_2 x_5^2 y_2^2 + 3x_2 y_2^2 y_5^2 - 2x_5 y_2^3 y_5) + y_1 (-2x_2^3 x_5 y_5 + 3x_2^2 x_5^2 y_2 - \\
& 3x_2^2 y_2 y_5^2 + 6x_2 x_5 y_2^2 y_5 - x_2^2 y_2^3 + y_2^3 y_5^2)) + a_{1,0,0,0,-1,0,-1,0,-3,0}^r (x_1 (x_3 x_4 x_5^3 - \\
& 3x_3 x_4 x_5 y_5^2 - 3x_3 x_5^2 y_4 y_5 + x_3 y_4 y_5^3 - 3x_4 x_5^2 y_3 y_5 + x_4 y_3 y_5^3 - x_5^3 y_3 y_4 + \\
& 3x_5 y_3 y_4 y_5^2) + y_1 (3x_3 x_4 x_5^2 y_5 - x_3 x_4 y_5^3 + x_3 x_5^3 y_4 - 3x_3 x_5 y_4 y_5^2 + x_4 x_5^3 y_3 - \\
& 3x_4 x_5 y_3 y_5^2 - 3x_5^2 y_3 y_4 y_5 + y_3 y_4 y_5^3)) + a_{1,0,0,0,-1,0,-1,0,3,0}^r (x_1 (x_3 x_4 x_5^3 - 3x_3 x_4 x_5 y_5^2 + \\
& 3x_3 x_5^2 y_4 y_5 - x_3 y_4 y_5^3 + 3x_4 x_5^2 y_3 y_5 - x_4 y_3 y_5^3 - x_5^3 y_3 y_4 + 3x_5 y_3 y_4 y_5^2) + y_1 (- \\
& 3x_3 x_4 x_5^2 y_5 + x_3 x_4 y_5^3 + x_3 x_5^3 y_4 - 3x_3 x_5 y_4 y_5^2 + x_4 x_5^3 y_3 - 3x_4 x_5 y_3 y_5^2 + \\
& 3x_5^2 y_3 y_4 y_5 - y_3 y_4 y_5^3)) + a_{1,0,0,0,-1,0,-3,0,1,0}^r (x_1 (x_3 x_4^3 x_5 + 3x_3 x_4^2 y_4 y_5 - 3x_3 x_4 x_5 y_4^2 - \\
& x_3 y_4^3 y_5 + x_4^3 y_3 y_5 - 3x_4^2 x_5 y_3 y_4 - 3x_4 y_3 y_4^2 y_5 + x_5 y_3 y_4^3) + y_1 (-x_3 x_4^3 y_5 + \\
& 3x_3 x_4^2 x_5 y_4 + 3x_3 x_4 y_4^2 y_5 - x_3 x_5 y_4^3 + x_4^3 x_5 y_3 + 3x_4^2 y_3 y_4 y_5 - 3x_4 x_5 y_3 y_4^2 - \\
& y_3 y_4^3 y_5)) + a_{1,0,0,0,-1,0,1,0,-1,1}^r (x_5^2 + y_5^2) (x_1 (x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4) + y_1 (x_3 x_4 y_5 - \\
& x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,0,-1,0,1,1,-1,0}^r (x_4^2 + y_4^2) (x_1 (x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + \\
& x_5 y_3 y_4) + y_1 (x_3 x_4 y_5 - x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,0,-1,0,3,0,1,0}^r (x_1 (x_3 x_4^3 x_5 - \\
& 3x_3 x_4^2 y_4 y_5 - 3x_3 x_4 x_5 y_4^2 + x_3 y_4^3 y_5 + x_4^3 y_3 y_5 + 3x_4^2 x_5 y_3 y_4 - 3x_4 y_3 y_4^2 y_5 - \\
& x_5 y_3 y_4^3) + y_1 (-x_3 x_4^3 y_5 - 3x_3 x_4^2 x_5 y_4 + 3x_3 x_4 y_4^2 y_5 + x_3 x_5 y_4^3 + x_4^3 x_5 y_3 - \\
& 3x_4^2 y_3 y_4 y_5 - 3x_4 x_5 y_3 y_4^2 + y_3 y_4^3 y_5)) + a_{1,0,0,0,-1,1,1,0,-1,0}^r (x_3^2 + y_3^2) (x_1 (x_3 x_4 x_5 + x_3 y_4 y_5 - \\
& x_4 y_3 y_5 + x_5 y_3 y_4) + y_1 (x_3 x_4 y_5 - x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,0,-3,0,-1,0,1,0}^r (x_1 (x_3^3 x_4 x_5 + \\
& x_3^3 y_4 y_5 + 3x_3^2 x_4 y_3 y_5 - 3x_3^2 x_5 y_3 y_4 - 3x_3 x_4 x_5 y_3^2 - 3x_3 y_3^2 y_4 y_5 - x_4 y_3^3 y_5 + \\
& x_5 y_3^3 y_4) + y_1 (-x_3^3 x_4 y_5 + x_3^3 x_5 y_4 + 3x_3^2 x_4 x_5 y_3 + 3x_3^2 y_3 y_4 y_5 + 3x_3 x_4 y_3^2 y_5 - \\
& 3x_3 x_5 y_3^2 y_4 - x_4 x_5 y_3^3 - y_3^3 y_4 y_5)) + a_{1,0,0,0,1,0,-1,0,-1,1}^r (x_5^2 + y_5^2) (x_1 (x_3 x_4 x_5 - x_3 y_4 y_5 + \\
& x_4 y_3 y_5 + x_5 y_3 y_4) + y_1 (x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,0,1,0,-1,1,-1,0}^r (x_4^2 + \\
& y_4^2) (x_1 (x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + y_1 (x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + \\
& a_{1,0,0,0,1,0,1,0,1,1}^r (x_5^2 + y_5^2) (x_1 (x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_1 (-x_3 x_4 y_5 - x_3 x_5 y_4 - \\
& x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,0,1,0,1,1,1,0}^r (x_4^2 + y_4^2) (x_1 (x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_1 (- \\
& x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,0,1,1,-1,0,-1,0}^r (x_3^2 + y_3^2) (x_1 (x_3 x_4 x_5 - x_3 y_4 y_5 + \\
& x_4 y_3 y_5 + x_5 y_3 y_4) + y_1 (x_3 x_4 y_5 + x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,0,1,1,1,0,1,0}^r (x_3^2 + \\
& y_3^2) (x_1 (x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_1 (-x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + \\
& a_{1,0,0,0,3,0,-1,0,1,0}^r (x_1 (x_3^3 x_4 x_5 + x_3^3 y_4 y_5 - 3x_3^2 x_4 y_3 y_5 + 3x_3^2 x_5 y_3 y_4 - 3x_3 x_4 x_5 y_3^2 - \\
& 3x_3 y_3^2 y_4 y_5 + x_4 y_3^3 y_5 - x_5 y_3^3 y_4) + y_1 (-x_3^3 x_4 y_5 + x_3^3 x_5 y_4 - 3x_3^2 x_4 x_5 y_3 - \\
& 3x_3^2 y_3 y_4 y_5 + 3x_3 x_4 y_3^2 y_5 - 3x_3 x_5 y_3^2 y_4 + x_4 x_5 y_3^3 + y_3^3 y_4 y_5)) + a_{1,0,0,1,-1,0,1,0,-1,0}^r (x_2^2 + \\
& y_2^2) (x_1 (x_3 x_4 x_5 + x_3 y_4 y_5 - x_4 y_3 y_5 + x_5 y_3 y_4) + y_1 (x_3 x_4 y_5 - x_3 x_5 y_4 + x_4 x_5 y_3 + y_3 y_4 y_5)) + \\
& a_{1,0,0,1,1,0,-1,0,-1,0}^r (x_2^2 + y_2^2) (x_1 (x_3 x_4 x_5 - x_3 y_4 y_5 + x_4 y_3 y_5 + x_5 y_3 y_4) + y_1 (x_3 x_4 y_5 + x_3 x_5 y_4 - \\
& x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,0,1,1,0,1,0,1,0}^r (x_2^2 + y_2^2) (x_1 (x_3 x_4 x_5 - x_3 y_4 y_5 - x_4 y_3 y_5 - x_5 y_3 y_4) + y_1 (- \\
& x_3 x_4 y_5 - x_3 x_5 y_4 - x_4 x_5 y_3 + y_3 y_4 y_5)) + a_{1,0,1,0,-2,0,-2,0,0,0}^r (x_1 (x_2^2 x_3^2 x_4^2 - x_2^2 x_3^2 y_4^2 - \\
& 4x_2 x_3 x_4 y_3 y_4 - x_2 x_4^2 y_3^2 + x_2 y_3^2 y_4^2 + 2x_3^2 x_4 y_2 y_4 + 2x_3 x_4^2 y_2 y_3 - 2x_3 y_2 y_3 y_4^2 - \\
& 2x_4 y_2 y_3^2 y_4) + y_1 (2x_2 x_3^2 x_4 y_4 + 2x_2 x_3 x_4^2 y_3 - 2x_2 x_3 y_3 y_4^2 - 2x_2 x_4 y_3^2 y_4 - x_3^2 x_4^2 y_2 +
\end{aligned}$$

$$\begin{aligned}
& x_3^2 y_2 y_4^2 + 4x_3 x_4 y_2 y_3 y_4 + x_4^2 y_2 y_3^2 - y_2 y_3^2 y_4^2)) + a_{1,0,1,0,-2,0,0,0,2,0}^r (x_1(x_2 x_3^2 x_5^2 - \\
& x_2 x_3^2 y_5^2 + 4x_2 x_3 x_5 y_3 y_5 - x_2 x_5^2 y_3^2 + x_2 y_3^2 y_5^2 - 2x_3^2 x_5 y_2 y_5 + 2x_3 x_5^2 y_2 y_3 - \\
& 2x_3 y_2 y_3 y_5^2 + 2x_5 y_2 y_3 y_5) + y_1(-2x_2 x_3^2 x_5 y_5 + 2x_2 x_3 x_5^2 y_3 - 2x_2 x_3 y_3 y_5^2 + \\
& 2x_2 x_5 y_3^2 y_5 - x_3^2 x_5^2 y_2 + x_3^2 y_2 y_5^2 - 4x_3 x_5 y_2 y_3 y_5 + x_5^2 y_2 y_3^2 - y_2 y_3^2 y_5^2)) + \\
& a_{1,0,1,0,-4,0,0,0,0,0}^r (x_1(x_2 x_3^4 - 6x_2 x_3^2 y_3^2 + x_2 y_3^4 + 4x_3^3 y_2 y_3 - 4x_3 y_2 y_3^3) + y_1(4x_2 x_3^3 y_3 - \\
& 4x_2 x_3 y_3^3 - x_3^4 y_2 + 6x_3^2 y_2 y_3^2 - y_2 y_3^4)) + a_{1,0,1,0,0,0,-2,0,2,0}^r (x_1(x_2 x_4^2 x_5^2 - x_2 x_4^2 y_5^2 + \\
& 4x_2 x_4 x_5 y_4 y_5 - x_2 x_5^2 y_4^2 + x_2 y_4^2 y_5^2 - 2x_4^2 x_5 y_2 y_5 + 2x_4 x_5^2 y_2 y_4 - 2x_4 y_2 y_4 y_5^2 + \\
& 2x_5 y_2 y_4^2 y_5) + y_1(-2x_2 x_4^2 x_5 y_5 + 2x_2 x_4 x_5^2 y_4 - 2x_2 x_4 y_4 y_5^2 + 2x_2 x_5 y_4^2 y_5 - x_4^2 x_5^2 y_2 + \\
& x_4^2 y_2 y_5^2 - 4x_4 x_5 y_2 y_4 y_5 + x_5^2 y_2 y_4^2 - y_2 y_4^2 y_5^2)) + a_{1,0,1,0,0,0,-4,0,0,0}^r (x_1(x_2 x_4^4 - \\
& 6x_2 x_4^2 y_4^2 + x_2 y_4^4 + 4x_4^3 y_2 y_4 - 4x_4 y_2 y_4^3) + y_1(4x_2 x_4^3 y_4 - 4x_2 x_4 y_4^3 - x_4^4 y_2 + \\
& 6x_4^2 y_2 y_4^2 - y_2 y_4^4)) + a_{1,0,1,0,0,0,0,0,-2,1}^r (x_5^2 + y_5^2)(x_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5) + \\
& y_1(2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2)) + a_{1,0,1,0,0,0,0,0,4,0}^r (x_1(x_2 x_5^4 - 6x_2 x_5^2 y_5^2 + x_2 y_5^4 - 4x_5^3 y_2 y_5 + \\
& 4x_5 y_2 y_5^3) + y_1(-4x_2 x_5^3 y_5 + 4x_2 x_5 y_5^3 - x_5^4 y_2 + 6x_5^2 y_2 y_5^2 - y_2 y_5^4)) + a_{1,0,1,0,0,0,0,1,-2,0}^r (x_4^2 + \\
& y_4^2)(x_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5) + y_1(2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2)) + a_{1,0,1,0,0,0,2,0,0,1}^r (x_5^2 + \\
& y_5^2)(x_1(x_2 x_4^2 - x_2 y_4^2 - 2x_4 y_2 y_4) + y_1(-2x_2 x_4 y_4 - x_4^2 y_2 + y_2 y_4^2)) + a_{1,0,1,0,0,0,2,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_1(x_2 x_4^2 - x_2 y_4^2 - 2x_4 y_2 y_4) + y_1(-2x_2 x_4 y_4 - x_4^2 y_2 + y_2 y_4^2)) + a_{1,0,1,0,0,1,0,0,-2,0}^r (x_3^2 + \\
& y_3^2)(x_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5) + y_1(2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2)) + a_{1,0,1,0,0,1,2,0,0,0}^r (x_3^2 + \\
& y_3^2)(x_1(x_2 x_4^2 - x_2 y_4^2 - 2x_4 y_2 y_4) + y_1(-2x_2 x_4 y_4 - x_4^2 y_2 + y_2 y_4^2)) + a_{1,0,1,0,2,0,0,0,0,1}^r (x_5^2 + \\
& y_5^2)(x_1(x_2 x_3^2 - x_2 y_3^2 - 2x_3 y_2 y_3) + y_1(-2x_2 x_3 y_3 - x_3^2 y_2 + y_2 y_3^2)) + a_{1,0,1,0,2,0,0,1,0,0}^r (x_4^2 + \\
& y_4^2)(x_1(x_2 x_3^2 - x_2 y_3^2 - 2x_3 y_2 y_3) + y_1(-2x_2 x_3 y_3 - x_3^2 y_2 + y_2 y_3^2)) + a_{1,0,1,0,2,1,0,0,0,0}^r (x_3^2 + \\
& y_3^2)(x_1(x_2 x_3^2 - x_2 y_3^2 - 2x_3 y_2 y_3) + y_1(-2x_2 x_3 y_3 - x_3^2 y_2 + y_2 y_3^2)) + a_{1,0,1,1,0,0,0,0,-2,0}^r (x_2^2 + \\
& y_2^2)(x_1(x_2 x_5^2 - x_2 y_5^2 + 2x_5 y_2 y_5) + y_1(2x_2 x_5 y_5 - x_5^2 y_2 + y_2 y_5^2)) + a_{1,0,1,1,0,0,2,0,0,0}^r (x_2^2 + \\
& y_2^2)(x_1(x_2 x_4^2 - x_2 y_4^2 - 2x_4 y_2 y_4) + y_1(-2x_2 x_4 y_4 - x_4^2 y_2 + y_2 y_4^2)) + a_{1,0,1,1,2,0,0,0,0,0}^r (x_2^2 + \\
& y_2^2)(x_1(x_2 x_3^2 - x_2 y_3^2 - 2x_3 y_2 y_3) + y_1(-2x_2 x_3 y_3 - x_3^2 y_2 + y_2 y_3^2)) + \\
& a_{1,0,2,0,-1,0,-1,0,1,0}^r (x_1(x_2^2 x_3 x_4 x_5 + x_2^2 x_3 y_4 y_5 + x_2^2 x_4 y_3 y_5 - x_2^2 x_5 y_3 y_4 - 2x_2 x_3 x_4 y_2 y_5 + \\
& 2x_2 x_3 x_5 y_2 y_4 + 2x_2 x_4 x_5 y_2 y_3 + 2x_2 y_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2^2 - x_3 y_2^2 y_4 y_5 - x_4 y_2^2 y_3 y_5 + \\
& x_5 y_2^2 y_3 y_4) + y_1(-x_2^2 x_3 x_4 y_5 + x_2^2 x_3 x_5 y_4 + x_2^2 x_4 x_5 y_3 + x_2^2 y_3 y_4 y_5 - 2x_2 x_3 x_4 x_5 y_2 - \\
& 2x_2 x_3 y_2 y_4 y_5 - 2x_2 x_4 y_2 y_3 y_5 + 2x_2 x_5 y_2 y_3 y_4 + x_3 x_4 y_2^2 y_5 - x_3 x_5 y_2^2 y_4 - x_4 x_5 y_2^2 y_3 - \\
& y_2^2 y_3 y_4 y_5)) + a_{1,0,2,0,1,0,1,0,-1,0}^r (x_1(x_2^2 x_3 x_4 x_5 + x_2^2 x_3 y_4 y_5 + x_2^2 x_4 y_3 y_5 - x_2^2 x_5 y_3 y_4 + \\
& 2x_2 x_3 x_4 y_2 y_5 - 2x_2 x_3 x_5 y_2 y_4 - 2x_2 x_4 x_5 y_2 y_3 - 2x_2 y_2 y_3 y_4 y_5 - x_3 x_4 x_5 y_2^2 - x_3 y_2^2 y_4 y_5 - \\
& x_4 y_2^2 y_3 y_5 + x_5 y_2^2 y_3 y_4) + y_1(x_2^2 x_3 x_4 y_5 - x_2^2 x_3 x_5 y_4 - x_2^2 x_4 x_5 y_3 - x_2^2 y_3 y_4 y_5 - \\
& 2x_2 x_3 x_4 x_5 y_2 - 2x_2 x_3 y_2 y_4 y_5 - 2x_2 x_4 y_2 y_3 y_5 + 2x_2 x_5 y_2 y_3 y_4 - x_3 x_4 y_2^2 y_5 + x_3 x_5 y_2^2 y_4 + \\
& x_4 x_5 y_2^2 y_3 + y_2^2 y_3 y_4 y_5)) + a_{1,0,3,0,-2,0,0,0,0,0}^r (x_1(x_2^3 x_3^2 - x_2^3 y_3^2 + 6x_2^2 x_3 y_2 y_3 - \\
& 3x_2 x_3^2 y_2^2 + 3x_2 y_2^2 y_3^2 - 2x_3 y_2^3 y_3) + y_1(2x_2^3 x_3 y_3 - 3x_2^2 x_3^2 y_2 + 3x_2^2 y_2 y_3^2 - \\
& 6x_2 x_3 y_2^2 y_3 + x_3^2 y_2^2 - y_2^3 y_3^2)) + a_{1,0,3,0,0,0,-2,0,0,0}^r (x_1(x_2^3 x_4^2 - x_2^3 y_4^2 + 6x_2^2 x_4 y_2 y_4 - \\
& 3x_2 x_4^2 y_2^2 + 3x_2 y_2^2 y_4^2 - 2x_4 y_2^3 y_4) + y_1(2x_2^3 x_4 y_4 - 3x_2^2 x_4^2 y_2 + 3x_2^2 y_2 y_4^2 - \\
& 6x_2 x_4 y_2^2 y_4 + x_4^2 y_2^3 - y_2^3 y_4^2)) + a_{1,0,3,0,0,0,0,0,2,0}^r (x_1(x_2^3 x_5^2 - x_2^3 y_5^2 - 6x_2^2 x_5 y_2 y_5 - \\
& 3x_2 x_5^2 y_2^2 + 3x_2 y_2^2 y_5^2 + 2x_5 y_2^3 y_5) + y_1(-2x_2^3 x_5 y_5 - 3x_2^2 x_5^2 y_2 + 3x_2^2 y_2 y_5^2 + \\
& 6x_2 x_5 y_2^2 y_5 + x_5^2 y_2^3 - y_2^3 y_5^2)) + a_{1,0,5,0,0,0,0,0,0,0}^r (x_1(x_2^5 - 10x_2^3 y_2^2 + 5x_2 y_2^4) + y_1(- \\
& 5x_4^4 y_2 + 10x_2^2 y_2^3 - y_2^5)) + a_{1,1,-1,0,0,0,0,0,0,1}^r (x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1 x_2 + y_1 y_2) + \\
& a_{1,1,-1,0,0,0,0,1,0,0}^r (x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1 x_2 + y_1 y_2) + a_{1,1,-1,0,0,1,0,0,0,0}^r (x_1^2 + y_1^2)(x_3^2 + \\
& y_3^2)(x_1 x_2 + y_1 y_2) + a_{1,1,-1,1,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_1 x_2 + y_1 y_2) + a_{1,1,0,0,-1,0,1,0,-1,0}^r (x_1^2 +
\end{aligned}$$

$$\begin{aligned}
& y_1^2)(x_1(x_3x_4x_5 + x_3y_4y_5 - x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 - x_3x_5y_4 + x_4x_5y_3 + y_3y_4y_5)) + \\
& a_{1,1,0,0,1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_1(x_3x_4x_5 - x_3y_4y_5 + x_4y_3y_5 + x_5y_3y_4) + y_1(x_3x_4y_5 + x_3x_5y_4 - \\
& x_4x_5y_3 + y_3y_4y_5)) + a_{1,1,0,0,1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_1(x_3x_4x_5 - x_3y_4y_5 - x_4y_3y_5 - x_5y_3y_4) + y_1(- \\
& x_3x_4y_5 - x_3x_5y_4 - x_4x_5y_3 + y_3y_4y_5)) + a_{1,1,1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1(x_2x_5^2 - x_2y_5^2 + \\
& 2x_5y_2y_5) + y_1(2x_2x_5y_5 - x_5^2y_2 + y_2y_5^2)) + a_{1,1,1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2x_4^2 - x_2y_4^2 - \\
& 2x_4y_2y_4) + y_1(-2x_2x_4y_4 - x_4^2y_2 + y_2y_4^2)) + a_{1,1,1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1(x_2x_3^2 - x_2y_3^2 - \\
& 2x_3y_2y_3) + y_1(-2x_2x_3y_3 - x_3^2y_2 + y_2y_3^2)) + a_{1,2,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_1x_2 + y_1y_2) + \\
& a_{2,0,-1,0,-1,0,1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 - 2x_2x_3x_5y_1y_4 + 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + \\
& 2x_3x_4x_5y_1y_2 + 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 + \\
& x_1^2x_3y_4y_5 - x_1^2x_4y_3y_5 + x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 + x_4y_1^2y_3y_5 - \\
& x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 - x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 + x_3x_4y_1^2y_5 - \\
& x_3x_5y_1^2y_4 + x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-1,0,1,0,-1,0,-1,0}^r(x_1(2x_2x_3x_4y_1y_5 + \\
& 2x_2x_3x_5y_1y_4 - 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 + \\
& 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 - x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 + x_1^2x_5y_3y_4 - \\
& x_3x_4x_5y_1^2 + x_3y_1^2y_4y_5 - x_4y_1^2y_3y_5 - x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 - x_1^2x_3x_5y_4 + \\
& x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 + x_3x_4y_1^2y_5 + x_3x_5y_1^2y_4 - x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + \\
& a_{2,0,-1,0,1,0,1,0,1,0}^r(x_1(-2x_2x_3x_4y_1y_5 - 2x_2x_3x_5y_1y_4 - 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 + \\
& 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 - 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 - \\
& x_1^2x_3y_4y_5 - x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 + x_3y_1^2y_4y_5 + x_4y_1^2y_3y_5 + \\
& x_5y_1^2y_3y_4) + y_2(x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 - x_1^2y_3y_4y_5 - x_3x_4y_1^2y_5 - \\
& x_3x_5y_1^2y_4 - x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + a_{2,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_2 - y_2) + y_1(x_2 + \\
& y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(- \\
& x_2 + y_2)) + a_{2,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + \\
& a_{2,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_2 - y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + \\
& a_{2,0,0,0,-2,0,-2,0,0,0}^r(x_1(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4) + y_1(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4))(x_1(x_3x_4 + x_3y_4 + \\
& x_4y_3 - y_3y_4) + y_1(-x_3x_4 + x_3y_4 + x_4y_3 + y_3y_4)) + a_{2,0,0,0,-2,0,0,0,2,0}^r(x_1(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5) + \\
& y_1(-x_3x_5 - x_3y_5 + x_5y_3 - y_3y_5))(x_1(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) + y_1(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)) + \\
& a_{2,0,0,0,-4,0,0,0,0,0}^r(x_1(x_3^2 - 2x_3y_3 - y_3^2) + y_1(x_3^2 + 2x_3y_3 - y_3^2))(x_1(x_3^2 + 2x_3y_3 - y_3^2) + y_1(-x_3^2 + \\
& 2x_3y_3 + y_3^2)) + a_{2,0,0,0,0,0,-2,0,2,0}^r(x_1(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5) + y_1(-x_4x_5 - x_4y_5 + x_5y_4 - \\
& y_4y_5))(x_1(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) + y_1(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)) + a_{2,0,0,0,0,0,-4,0,0,0}^r(x_1(x_4^2 - \\
& 2x_4y_4 - y_4^2) + y_1(x_4^2 + 2x_4y_4 - y_4^2))(x_1(x_4^2 + 2x_4y_4 - y_4^2) + y_1(-x_4^2 + 2x_4y_4 + y_4^2)) + \\
& a_{2,0,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + \\
& a_{2,0,0,0,0,0,0,0,4,0}^r(x_1(x_5^2 - 2x_5y_5 - y_5^2) + y_1(-x_5^2 - 2x_5y_5 + y_5^2))(x_1(x_5^2 + 2x_5y_5 - y_5^2) + y_1(x_5^2 - \\
& 2x_5y_5 - y_5^2)) + a_{2,0,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1(x_5 - y_5) + y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + \\
& a_{2,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,0,0,2,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1(x_5 - y_5) + \\
& y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + \\
& y_4) + y_1(x_4 - y_4)) + a_{2,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + \\
& a_{2,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + a_{2,0,0,0,2,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + a_{2,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1(x_5 - y_5) + \\
& y_1(x_5 + y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + \\
& y_4) + y_1(x_4 - y_4)) + a_{2,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) +
\end{aligned}$$

$$\begin{aligned}
& a_{2,0,1,0,-1,0,-1,0,1,0}^r (x_1(-2x_2x_3x_4y_1y_5 + 2x_2x_3x_5y_1y_4 + 2x_2x_4x_5y_1y_3 + 2x_2y_1y_3y_4y_5 - \\
& 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 + 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 + \\
& x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 - x_3y_1^2y_4y_5 - x_4y_1^2y_3y_5 + \\
& x_5y_1^2y_3y_4) + y_2(-x_1^2x_3x_4y_5 + x_1^2x_3x_5y_4 + x_1^2x_4x_5y_3 + x_1^2y_3y_4y_5 + x_3x_4y_1^2y_5 - \\
& x_3x_5y_1^2y_4 - x_4x_5y_1^2y_3 - y_1^2y_3y_4y_5)) + a_{2,0,1,0,1,0,1,0,-1,0}^r (x_1(2x_2x_3x_4y_1y_5 - 2x_2x_3x_5y_1y_4 - \\
& 2x_2x_4x_5y_1y_3 - 2x_2y_1y_3y_4y_5 - 2x_3x_4x_5y_1y_2 - 2x_3y_1y_2y_4y_5 - 2x_4y_1y_2y_3y_5 + \\
& 2x_5y_1y_2y_3y_4) + x_2(x_1^2x_3x_4x_5 + x_1^2x_3y_4y_5 + x_1^2x_4y_3y_5 - x_1^2x_5y_3y_4 - x_3x_4x_5y_1^2 - \\
& x_3y_1^2y_4y_5 - x_4y_1^2y_3y_5 + x_5y_1^2y_3y_4) + y_2(x_1^2x_3x_4y_5 - x_1^2x_3x_5y_4 - x_1^2x_4x_5y_3 - \\
& x_1^2y_3y_4y_5 - x_3x_4y_1^2y_5 + x_3x_5y_1^2y_4 + x_4x_5y_1^2y_3 + y_1^2y_3y_4y_5)) + \\
& a_{2,0,2,0,-2,0,0,0,0,0}^r (x_1(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3) + y_1(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3))(x_1(x_2x_3 + x_2y_3 - \\
& x_3y_2 + y_2y_3) + y_1(-x_2x_3 + x_2y_3 - x_3y_2 - y_2y_3)) + a_{2,0,2,0,0,0,-2,0,0,0}^r (x_1(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4) + \\
& y_1(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4))(x_1(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) + y_1(-x_2x_4 + x_2y_4 - x_4y_2 - y_2y_4)) + \\
& a_{2,0,2,0,0,0,0,0,2,0}^r (x_1(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5) + y_1(-x_2x_5 - x_2y_5 - x_5y_2 + y_2y_5))(x_1(x_2x_5 + x_2y_5 + \\
& x_5y_2 - y_2y_5) + y_1(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)) + a_{2,0,4,0,0,0,0,0,0,0}^r (x_1(x_2^2 - 2x_2y_2 - y_2^2) + y_1(-x_2^2 - \\
& 2x_2y_2 + y_2^2))(x_1(x_2^2 + 2x_2y_2 - y_2^2) + y_1(x_2^2 - 2x_2y_2 - y_2^2)) + a_{2,1,-2,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1(x_2 - \\
& y_2) + y_1(x_2 + y_2))(x_1(x_2 + y_2) + y_1(-x_2 + y_2)) + a_{2,1,0,0,0,0,0,0,-2,0}^r (x_1^2 + y_1^2)(x_1(x_5 - y_5) + y_1(x_5 + \\
& y_5))(x_1(x_5 + y_5) + y_1(-x_5 + y_5)) + a_{2,1,0,0,0,0,2,0,0,0}^r (x_1^2 + y_1^2)(x_1(x_4 - y_4) + y_1(-x_4 - y_4))(x_1(x_4 + y_4) + \\
& y_1(x_4 - y_4)) + a_{2,1,0,0,2,0,0,0,0,0}^r (x_1^2 + y_1^2)(x_1(x_3 - y_3) + y_1(-x_3 - y_3))(x_1(x_3 + y_3) + y_1(x_3 - y_3)) + \\
& a_{3,0,-1,0,0,0,0,0,-2,0}^r (x_1(-3x_2x_5^2y_1^2 + 3x_2y_1^2y_5^2 + 6x_5y_1^2y_2y_5) + x_2(x_1^3x_5^2 - x_1^3y_5^2 - \\
& 2x_5y_1^3y_5) + y_1(6x_1^2x_2x_5y_5 + 3x_1^2x_5^2y_2 - 3x_1^2y_2y_5^2) + y_2(-2x_1^3x_5y_5 - x_5^2y_1^3 + \\
& y_1^3y_5^2)) + a_{3,0,-1,0,0,0,2,0,0,0}^r (x_1(-3x_2x_4^2y_1^2 + 3x_2y_1^2y_4^2 - 6x_4y_1^2y_2y_4) + x_2(x_1^3x_4^2 - \\
& x_1^3y_4^2 + 2x_4y_1^3y_4) + y_1(-6x_1^2x_2x_4y_4 + 3x_1^2x_4^2y_2 - 3x_1^2y_2y_4^2) + y_2(2x_1^3x_4y_4 - \\
& x_1^2y_4^3 + y_1^3y_4^2)) + a_{3,0,-1,0,2,0,0,0,0,0}^r (x_1(-3x_2x_3^2y_1^2 + 3x_2y_1^2y_3^2 - 6x_3y_1^2y_2y_3) + \\
& x_2(x_1^3x_3^2 - x_1^3y_3^2 + 2x_3y_1^3y_3) + y_1(-6x_1^2x_2x_3y_3 + 3x_1^2x_3^2y_2 - 3x_1^2y_2y_3^2) + \\
& y_2(2x_1^3x_3y_3 - x_3^2y_1^3 + y_1^3y_3^2)) + a_{3,0,-3,0,0,0,0,0,0,0}^r (x_1x_2 + y_1y_2)(x_1^2x_2^2 - 3x_1^2y_2^2 + \\
& 8x_1x_2y_1y_2 - 3x_2^2y_1^2 + y_1^2y_2^2) + a_{3,0,0,0,-1,0,-1,0,1,0}^r (x_1(-3x_3x_4x_5y_1^2 - 3x_3y_1^2y_4y_5 - \\
& 3x_4y_1^2y_3y_5 + 3x_5y_1^2y_3y_4) + x_3(x_1^3x_4x_5 + x_1^3y_4y_5 + x_4y_1^3y_5 - x_5y_1^3y_4) + y_1(- \\
& 3x_1^2x_3x_4y_5 + 3x_1^2x_3x_5y_4 + 3x_1^2x_4x_5y_3 + 3x_1^2y_3y_4y_5) + y_3(x_1^3x_4y_5 - x_1^3x_5y_4 - \\
& x_4x_5y_1^3 - y_1^3y_4y_5)) + a_{3,0,0,0,1,0,1,0,-1,0}^r (x_1(-3x_3x_4x_5y_1^2 - 3x_3y_1^2y_4y_5 - 3x_4y_1^2y_3y_5 + \\
& 3x_5y_1^2y_3y_4) + x_3(x_1^3x_4x_5 + x_1^3y_4y_5 - x_4y_1^3y_5 + x_5y_1^3y_4) + y_1(3x_1^2x_3x_4y_5 - \\
& 3x_1^2x_3x_5y_4 - 3x_1^2x_4x_5y_3 - 3x_1^2y_3y_4y_5) + y_3(x_1^3x_4y_5 - x_1^3x_5y_4 + x_4x_5y_1^3 + \\
& y_1^3y_4y_5)) + a_{3,0,1,0,-2,0,0,0,0,0}^r (x_1(-3x_2x_3^2y_1^2 + 3x_2y_1^2y_3^2 - 6x_3y_1^2y_2y_3) + x_2(x_1^3x_3^2 - \\
& x_1^3y_3^2 - 2x_3y_1^3y_3) + y_1(6x_1^2x_2x_3y_3 - 3x_1^2x_3^2y_2 + 3x_1^2y_2y_3^2) + y_2(2x_1^3x_3y_3 + \\
& x_3^2y_1^3 - y_1^3y_3^2)) + a_{3,0,1,0,0,0,-2,0,0,0}^r (x_1(-3x_2x_4^2y_1^2 + 3x_2y_1^2y_4^2 - 6x_4y_1^2y_2y_4) + \\
& x_2(x_1^3x_4^2 - x_1^3y_4^2 - 2x_4y_1^3y_4) + y_1(6x_1^2x_2x_4y_4 - 3x_1^2x_4^2y_2 + 3x_1^2y_2y_4^2) + \\
& y_2(2x_1^3x_4y_4 + x_1^2y_4^3 - y_1^3y_4^2)) + a_{3,0,1,0,0,0,0,0,2,0}^r (x_1(-3x_2x_5^2y_1^2 + 3x_2y_1^2y_5^2 + \\
& 6x_5y_1^2y_2y_5) + x_2(x_1^3x_5^2 - x_1^3y_5^2 + 2x_5y_1^3y_5) + y_1(-6x_1^2x_2x_5y_5 - 3x_1^2x_5^2y_2 + \\
& 3x_1^2y_2y_5^2) + y_2(-2x_1^3x_5y_5 + x_5^2y_1^3 - y_1^3y_5^2)) + a_{3,0,3,0,0,0,0,0,0,0}^r (x_1x_2 - y_1y_2)(x_1^2x_2^2 - \\
& 3x_1^2y_2^2 - 8x_1x_2y_1y_2 - 3x_2^2y_1^2 + y_1^2y_2^2) + a_{4,0,0,0,-2,0,0,0,0,0}^r (x_1(-2x_3y_1 + 2y_1y_3) + x_3(x_1^2 - \\
& y_1^2) + y_3(x_1^2 - y_1^2))(x_1(2x_3y_1 + 2y_1y_3) + x_3(x_1^2 - y_1^2) + y_3(-x_1^2 + y_1^2)) + a_{4,0,0,0,0,0,-2,0,0,0}^r (x_1(- \\
& 2x_4y_1 + 2y_1y_4) + x_4(x_1^2 - y_1^2) + y_4(x_1^2 - y_1^2))(x_1(2x_4y_1 + 2y_1y_4) + x_4(x_1^2 - y_1^2) + y_4(-x_1^2 + \\
& y_1^2)) + a_{4,0,0,0,0,0,0,0,2,0}^r (x_1(-2x_5y_1 - 2y_1y_5) + x_5(x_1^2 - y_1^2) + y_5(-x_1^2 + y_1^2))(x_1(2x_5y_1 - 2y_1y_5) +
\end{aligned}$$

$$\begin{aligned}
& x_5(x_1^2 - y_1^2) + y_5(x_1^2 - y_1^2)) + a_{4,0,2,0,0,0,0,0,0}^r(x_1(-2x_2y_1 - 2y_1y_2) + x_2(x_1^2 - y_1^2) + y_2(-x_1^2 + \\
& y_1^2))(x_1(2x_2y_1 - 2y_1y_2) + x_2(x_1^2 - y_1^2) + y_2(x_1^2 - y_1^2)) + a_{5,0,1,0,0,0,0,0,0}^r(-5x_1^4y_1y_2 + \\
& 5x_1x_2y_1^4 + x_2(x_1^5 - 10x_1^3y_1^2) + y_2(10x_1^2y_1^3 - y_1^5)) + a_{6,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 - \\
& 4x_1y_1 + y_1^2)(x_1^2 + 4x_1y_1 + y_1^2) - b_{-1,0,-1,0,-2,0,-2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - \\
& 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 - 2x_1x_3x_4^2y_2y_3 + \\
& 2x_1x_3y_2y_3y_4^2 + 2x_1x_4y_2y_3^2y_4 - 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 + \\
& 2x_2x_4y_1y_3^2y_4 - x_3^2x_4^2y_1y_2 + x_3^2y_1y_2y_4^2 + 4x_3x_4y_1y_2y_3y_4 + x_4^2y_1y_2y_3^2 - \\
& y_1y_2y_3^2y_4^2) - b_{-1,0,-1,0,-2,0,0,0,2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + 4x_1x_2x_3x_5y_3y_5 - \\
& x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 + 2x_1x_3y_2y_3y_5^2 - \\
& 2x_1x_5y_2y_3^2y_5 + 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 - 2x_2x_5y_1y_3^2y_5 - \\
& x_3^2x_5^2y_1y_2 + x_3^2y_1y_2y_5^2 - 4x_3x_5y_1y_2y_3y_5 + x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) - \\
& b_{-1,0,-1,0,-4,0,0,0,0,0}^r(x_1x_2x_4^4 - 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 - 4x_1x_3^3y_2y_3 + 4x_1x_3y_2y_3^3 - \\
& 4x_2x_3^3y_1y_3 + 4x_2x_3y_1y_3^3 - x_3^4y_1y_2 + 6x_3^2y_1y_2y_3^2 - y_1y_2y_3^4) - \\
& b_{-1,0,-1,0,0,0,-2,0,2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 + 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + \\
& x_1x_2y_4^2y_5^2 + 2x_1x_4^2x_5y_2y_5 - 2x_1x_4x_5^2y_2y_4 + 2x_1x_4y_2y_4y_5^2 - 2x_1x_5y_2y_4^2y_5 + \\
& 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 - x_4^2x_5^2y_1y_2 + \\
& x_4^2y_1y_2y_5^2 - 4x_4x_5y_1y_2y_4y_5 + x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) - \\
& b_{-1,0,-1,0,0,0,-4,0,0,0}^r(x_1x_2x_4^4 - 6x_1x_2x_4^2y_4^2 + x_1x_2y_4^4 - 4x_1x_4^3y_2y_4 + 4x_1x_4y_2y_4^3 - \\
& 4x_2x_4^3y_1y_4 + 4x_2x_4y_1y_4^3 - x_4^4y_1y_2 + 6x_4^2y_1y_2y_4^2 - y_1y_2y_4^4) - b_{-1,0,-1,0,0,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) - \\
& b_{-1,0,-1,0,0,0,0,0,4,0}^r(x_1x_2x_5^4 - 6x_1x_2x_5^2y_5^2 + x_1x_2y_5^4 + 4x_1x_5^3y_2y_5 - 4x_1x_5y_2y_5^3 + \\
& 4x_2x_5^3y_1y_5 - 4x_2x_5y_1y_5^3 - x_5^4y_1y_2 + 6x_5^2y_1y_2y_5^2 - y_1y_2y_5^4) - b_{-1,0,-1,0,0,0,0,1,-2,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) - \\
& b_{-1,0,-1,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + \\
& y_1y_2y_4^2) - b_{-1,0,-1,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - \\
& x_4^2y_1y_2 + y_1y_2y_4^2) - b_{-1,0,-1,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - \\
& 2x_2x_5y_1y_5 - x_5^2y_1y_2 + y_1y_2y_5^2) - b_{-1,0,-1,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + \\
& 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) - b_{-1,0,-1,0,2,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_3^2 - \\
& x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) - b_{-1,0,-1,0,2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) - \\
& b_{-1,0,-1,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + \\
& y_1y_2y_3^2) - b_{-1,0,-1,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - \\
& x_5^2y_1y_2 + y_1y_2y_5^2) - b_{-1,0,-1,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + \\
& 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) - b_{-1,0,-1,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) - b_{-1,0,-2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + \\
& x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - \\
& 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - \\
& x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - \\
& 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 - \\
& x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) - b_{-1,0,-2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - \\
& x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + \\
& 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - \\
& 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + \\
& x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) - b_{-1,0,-2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - \\
& x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + \\
& 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 + \\
& x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 - \\
& 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 + 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - \\
& x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 + y_1y_2^2y_3y_4y_5) - b_{-1,0,-3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2^3 - \\
& 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) - b_{-1,0,-3,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + \\
& y_1y_2^3) - b_{-1,0,-3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) - \\
& b_{-1,0,-3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2^3 - 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) - b_{-1,0,0,0,-1,0,-1,0,1,1}^r(x_5^2 + \\
& y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) - b_{-1,0,0,0,-1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + \\
& x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - b_{-1,0,0,0,-1,0,-3,0,-1,0}^r(x_1x_3x_4^3x_5 - \\
& 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 + x_1x_3y_4^3y_5 - x_1x_4^3y_3y_5 - 3x_1x_4^2x_5y_3y_4 + \\
& 3x_1x_4y_3y_4^2y_5 + x_1x_5y_3y_4^3 - x_3x_4^3y_1y_5 - 3x_3x_4^2x_5y_1y_4 + 3x_3x_4y_1y_4^2y_5 + \\
& x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 + 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 - y_1y_3y_4^3y_5) - \\
& b_{-1,0,0,0,-1,0,1,0,-3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 + 3x_1x_3x_5^2y_4y_5 - x_1x_3y_4y_5^3 - \\
& 3x_1x_4x_5^2y_3y_5 + x_1x_4y_3y_5^3 + x_1x_5^3y_3y_4 - 3x_1x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_1y_5 + \\
& x_3x_4y_1y_5^3 + x_3x_5^3y_1y_4 - 3x_3x_5y_1y_4y_5^2 - x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 - \\
& 3x_5^2y_1y_3y_4y_5 + y_1y_3y_4y_5^3) - b_{-1,0,0,0,-1,0,1,0,3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 - \\
& 3x_1x_3x_5^2y_4y_5 + x_1x_3y_4y_5^3 + x_1x_5^3y_3y_4 - x_1x_4y_3y_5^3 + 3x_1x_4x_5^2y_3y_5 - x_1x_4y_3y_5^3 + \\
& 3x_1x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_1y_5 - x_3x_4y_1y_5^3 + x_3x_5^3y_1y_4 - 3x_3x_5y_1y_4y_5^2 - \\
& x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 + 3x_5^2y_1y_3y_4y_5 - y_1y_3y_4y_5^3) - \\
& b_{-1,0,0,0,-1,0,3,0,-1,0}^r(x_1x_3x_4^3x_5 + 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 - x_1x_3y_4^3y_5 - x_1x_4^3y_3y_5 + \\
& 3x_1x_4^2x_5y_3y_4 + 3x_1x_4y_3y_4^2y_5 - x_1x_5y_3y_4^3 - x_3x_4^3y_1y_5 + 3x_3x_4^2x_5y_1y_4 + \\
& 3x_3x_4y_1y_4^2y_5 - x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 - 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 + \\
& y_1y_3y_4^3y_5) - b_{-1,0,0,0,-1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + \\
& x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - b_{-1,0,0,0,-3,0,-1,0,-1,0}^r(x_1x_3^3x_4x_5 - x_1x_3^3y_4y_5 - \\
& 3x_1x_3^2x_4y_3y_5 - 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 + x_1x_4y_3^3y_5 + \\
& x_1x_5y_3^3y_4 - x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 - 3x_3^2x_4x_5y_1y_3 + 3x_3^2y_1y_3y_4y_5 + \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 + x_4x_5y_1y_3^3 - y_1y_3^3y_4y_5) - b_{-1,0,0,0,-3,0,1,0,1,0}^r(x_1x_3^3x_4x_5 - \\
& x_1x_3^3y_4y_5 + 3x_1x_3^2x_4y_3y_5 + 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 - \\
& x_1x_4y_3^3y_5 - x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 + x_3^3x_5y_1y_4 - 3x_3^2x_4x_5y_1y_3 + 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 - 3x_3x_5y_1y_3^2y_4 + x_4x_5y_1y_3^3 - y_1y_3^3y_4y_5) - \\
& b_{-1,0,0,0,1,0,-1,0,-3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 - 3x_1x_3x_5^2y_4y_5 + x_1x_3y_4y_5^3 + \\
& 3x_1x_4x_5^2y_3y_5 - x_1x_4y_3y_5^3 + x_1x_5^3y_3y_4 - 3x_1x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_1y_5 + \\
& x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 + x_4x_5^3y_1y_3 - 3x_4x_5y_1y_3y_5^2 - \\
& 3x_5^2y_1y_3y_4y_5 + y_1y_3y_4y_5^3) - b_{-1,0,0,0,1,0,-1,0,3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 + \\
& 3x_1x_3x_5^2y_4y_5 - x_1x_3y_4y_5^3 - 3x_1x_4x_5^2y_3y_5 + x_1x_4y_3y_5^3 + x_1x_5^3y_3y_4 - \\
& 3x_1x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_1y_5 - x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 + \\
& x_4x_5^3y_1y_3 - 3x_4x_5y_1y_3y_5^2 + 3x_5^2y_1y_3y_4y_5 - y_1y_3y_4y_5^3) - b_{-1,0,0,0,1,0,-3,0,1,0}^r(x_1x_3x_4^3x_5 +
\end{aligned}$$

$$\begin{aligned}
& 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 - x_1x_3y_4^3y_5 - x_1x_4^3y_3y_5 + 3x_1x_4^2x_5y_3y_4 + \\
& 3x_1x_4y_3y_4^2y_5 - x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 - 3x_3x_4^2x_5y_1y_4 - 3x_3x_4y_1y_4^2y_5 + \\
& x_3x_5y_1y_4^3 + x_4^3x_5y_1y_3 + 3x_4^2y_1y_3y_4y_5 - 3x_4x_5y_1y_3y_4^2 - y_1y_3y_4^3y_5) - \\
& b_{-1,0,0,0,1,0,1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - b_{-1,0,0,0,1,0,1,1,-1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - \\
& b_{-1,0,0,0,1,0,3,0,1,0}^r(x_1x_3x_4^3x_5 - 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 + x_1x_3y_4^3y_5 - x_1x_4^3y_3y_5 - \\
& 3x_1x_4^2x_5y_3y_4 + 3x_1x_4y_3y_4^2y_5 + x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 + 3x_3x_4^2x_5y_1y_4 - \\
& 3x_3x_4y_1y_4^2y_5 - x_3x_5y_1y_4^3 + x_4^3x_5y_1y_3 - 3x_4^2y_1y_3y_4y_5 - 3x_4x_5y_1y_3y_4^2 + \\
& y_1y_3y_4^3y_5) - b_{-1,0,0,0,1,1,1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - b_{-1,0,0,0,3,0,-1,0,-1,0}^r(x_1x_3^3x_4x_5 - x_1x_3^3y_4y_5 + \\
& 3x_1x_3^2x_4y_3y_5 + 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 - x_1x_4y_3^3y_5 - \\
& x_1x_5y_3^3y_4 - x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 + 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 + \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 + y_1y_3^3y_4y_5) - b_{-1,0,0,0,3,0,1,0,1,0}^r(x_1x_3^3x_4x_5 - \\
& x_1x_3^3y_4y_5 - 3x_1x_3^2x_4y_3y_5 - 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 + 3x_1x_3y_3^2y_4y_5 + \\
& x_1x_4y_3^3y_5 + x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 + x_3^3x_5y_1y_4 + 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 - 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 + y_1y_3^3y_4y_5) - b_{-1,0,0,1,-1,0,-1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) - b_{-1,0,0,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - b_{-1,0,1,0,-2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_3^2 - \\
& x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - b_{-1,0,1,0,-2,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - \\
& b_{-1,0,1,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - \\
& y_1y_2y_3^2) - b_{-1,0,1,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + \\
& x_4^2y_1y_2 - y_1y_2y_4^2) - b_{-1,0,1,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - \\
& 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - b_{-1,0,1,0,0,0,0,0,-4,0}^r(x_1x_2x_5^4 - 6x_1x_2x_5^2y_5^2 + x_1x_2y_5^4 + \\
& 4x_1x_5^3y_2y_5 - 4x_1x_5y_2y_5^3 - 4x_2x_5^3y_1y_5 + 4x_2x_5y_1y_5^3 + x_5^4y_1y_2 - 6x_5^2y_1y_2y_5^2 + \\
& y_1y_2y_5^4) - b_{-1,0,1,0,0,0,0,0,2,1}^r(x_5^2 + y_5^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) - b_{-1,0,1,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + \\
& 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) - b_{-1,0,1,0,0,0,2,0,-2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 + \\
& 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + x_1x_2y_4^2y_5^2 + 2x_1x_4^2x_5y_2y_5 - 2x_1x_4x_5^2y_2y_4 + \\
& 2x_1x_4y_2y_4y_5^2 - 2x_1x_5y_2y_4^2y_5 - 2x_2x_4^2x_5y_1y_5 + 2x_2x_4x_5^2y_1y_4 - 2x_2x_4y_1y_4y_5^2 + \\
& 2x_2x_5y_1y_4^2y_5 + x_4^2x_5^2y_1y_2 - x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 - x_5^2y_1y_2y_4^2 + \\
& y_1y_2y_4^2y_5^2) - b_{-1,0,1,0,0,0,4,0,0,0}^r(x_1x_2x_4^4 - 6x_1x_2x_4^2y_4^2 + x_1x_2y_4^4 - 4x_1x_4^3y_2y_4 + \\
& 4x_1x_4y_2y_4^3 + 4x_2x_4^3y_1y_4 - 4x_2x_4y_1y_4^3 + x_4^4y_1y_2 - 6x_4^2y_1y_2y_4^2 + y_1y_2y_4^4) - \\
& b_{-1,0,1,0,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + x_4^2y_1y_2 - \\
& y_1y_2y_4^2) - b_{-1,0,1,0,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) - b_{-1,0,1,0,0,2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + 4x_1x_2x_3x_5y_3y_5 - \\
& x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 + 2x_1x_3y_2y_3y_5^2 - \\
& 2x_1x_5y_2y_3^2y_5 - 2x_2x_3^2x_5y_1y_5 + 2x_2x_3x_5^2y_1y_3 - 2x_2x_3y_1y_3y_5^2 + 2x_2x_5y_1y_3^2y_5 + \\
& x_3^2x_5^2y_1y_2 - x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 - x_5^2y_1y_2y_3^2 + y_1y_2y_3^2y_5^2) - \\
& b_{-1,0,1,0,0,2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 +
\end{aligned}$$

$$\begin{aligned}
& x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 - 2x_1x_3x_4^2y_2y_3 + 2x_1x_3y_2y_3y_4^2 + 2x_1x_4y_2y_3^2y_4 + \\
& 2x_2x_3^2x_4y_1y_4 + 2x_2x_3x_4^2y_1y_3 - 2x_2x_3y_1y_3y_4^2 - 2x_2x_4y_1y_3^2y_4 + x_3^2x_4^2y_1y_2 - \\
& x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 - x_4^2y_1y_2y_3^2 + y_1y_2y_3^2y_4^2) - b_{-1,0,1,0,4,0,0,0,0}^r(x_1x_2x_3^4 - \\
& 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 - 4x_1x_3^3y_2y_3 + 4x_1x_3y_2y_3^3 + 4x_2x_3^3y_1y_3 - 4x_2x_3y_1y_3^3 + \\
& x_3^4y_1y_2 - 6x_3^2y_1y_2y_3^2 + y_1y_2y_3^4) - b_{-1,0,1,1,-2,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - b_{-1,0,1,1,0,0,-2,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_4^2 - \\
& x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - b_{-1,0,1,1,0,0,0,0,2,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) - \\
& b_{-1,0,2,0,-1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 + \\
& 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + \\
& x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 - \\
& x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 - \\
& 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) - \\
& b_{-1,0,2,0,-1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - \\
& 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + \\
& x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 - \\
& x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 - 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 + \\
& 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) - \\
& b_{-1,0,2,0,1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 - x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 - \\
& 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - \\
& x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 + \\
& x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 + \\
& 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) - \\
& b_{-1,0,3,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) - b_{-1,0,3,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) - b_{-1,0,3,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2^3 - \\
& 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) - b_{-1,0,3,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - \\
& y_1y_2^3) - b_{-1,1,-1,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 - \\
& x_5^2y_1y_2 + y_1y_2y_5^2) - b_{-1,1,-1,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 + 2x_1x_4y_2y_4 + \\
& 2x_2x_4y_1y_4 - x_4^2y_1y_2 + y_1y_2y_4^2) - b_{-1,1,-1,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 - x_3^2y_1y_2 + y_1y_2y_3^2) - b_{-1,1,-3,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2^3 - \\
& 3x_1x_2y_2^2 - 3x_2^2y_1y_2 + y_1y_2^3) - b_{-1,1,0,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 - x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& b_{-1,1,0,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 + x_1x_4y_3y_5 - x_1x_5y_3y_4 - x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 + y_1y_3y_4y_5) - b_{-1,1,1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - x_1x_2y_3^2 + \\
& 2x_1x_3y_2y_3 - 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - b_{-1,1,1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_4^2 - \\
& x_1x_2y_4^2 + 2x_1x_4y_2y_4 - 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - b_{-1,1,1,0,0,0,0,0,2,0}^r(x_1^2 + \\
& y_1^2)(x_1x_2x_5^2 - x_1x_2y_5^2 - 2x_1x_5y_2y_5 + 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) - \\
& b_{-1,1,3,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2^3 - 3x_1x_2y_2^2 + 3x_2^2y_1y_2 - y_1y_2^3) - \\
& b_{-2,0,-1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 - \\
& x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 - x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 + \\
& 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 - 2x_1x_3x_4x_5y_1y_2 - \\
& 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - x_2x_3y_1^2y_4y_5 +
\end{aligned}$$



$$\begin{aligned}
& x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + x_4x_5y_1^2y_2y_3 + \\
& y_1^2y_2y_3y_4y_5) - b_{-2,0,-1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + x_1^2x_2x_4y_3y_5 + \\
& x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 - x_1^2y_2y_3y_4y_5 - \\
& 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 + y_1^2y_2y_3y_4y_5) - b_{-2,0,-1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 - x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 - \\
& x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 + y_1^2y_2y_3y_4y_5) - b_{-2,0,-2,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + \\
& x_1y_2 + x_2y_1 - y_1y_2) - b_{-2,0,-2,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - \\
& y_1y_2) - b_{-2,0,-2,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - y_1y_2) - \\
& b_{-2,0,-2,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2 - x_1y_2 - x_2y_1 - y_1y_2)(x_1x_2 + x_1y_2 + x_2y_1 - y_1y_2) - \\
& b_{-2,0,0,0,-2,0,-2,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 - x_1x_4y_3 - x_1y_3y_4 - x_3x_4y_1 - x_3y_1y_4 - x_4y_1y_3 + \\
& y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 + x_1x_4y_3 - x_1y_3y_4 + x_3x_4y_1 - x_3y_1y_4 - x_4y_1y_3 - y_1y_3y_4) - \\
& b_{-2,0,0,0,-2,0,0,0,2,0}^r(x_1x_3x_5 - x_1x_3y_5 + x_1x_5y_3 + x_1y_3y_5 + x_3x_5y_1 + x_3y_1y_5 - x_5y_1y_3 + \\
& y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 - x_1x_5y_3 + x_1y_3y_5 - x_3x_5y_1 + x_3y_1y_5 - x_5y_1y_3 - y_1y_3y_5) - \\
& b_{-2,0,0,0,-4,0,0,0,0,0}^r(x_1x_3^2 - 2x_1x_3y_3 - x_1y_3^2 - x_3^2y_1 - 2x_3y_1y_3 + y_1y_3^2)(x_1x_3^2 + 2x_1x_3y_3 - \\
& x_1y_3^2 + x_3^2y_1 - 2x_3y_1y_3 - y_1y_3^2) - b_{-2,0,0,0,0,0,-2,0,2,0}^r(x_1x_4x_5 - x_1x_4y_5 + x_1x_5y_4 + x_1y_4y_5 + \\
& x_4x_5y_1 + x_4y_1y_5 - x_5y_1y_4 + y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 - x_1x_5y_4 + x_1y_4y_5 - x_4x_5y_1 + \\
& x_4y_1y_5 - x_5y_1y_4 - y_1y_4y_5) - b_{-2,0,0,0,0,0,-4,0,0,0}^r(x_1x_4^2 - 2x_1x_4y_4 - x_1y_4^2 - x_4^2y_1 - 2x_4y_1y_4 + \\
& y_1y_4^2)(x_1x_4^2 + 2x_1x_4y_4 - x_1y_4^2 + x_4^2y_1 - 2x_4y_1y_4 - y_1y_4^2) - b_{-2,0,0,0,0,0,0,0,-2,1}^r(x_5^2 + \\
& y_5^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + x_1y_5 + x_5y_1 - y_1y_5) - b_{-2,0,0,0,0,0,0,0,4,0}^r(x_1x_5^2 - 2x_1x_5y_5 - \\
& x_1y_5^2 + x_5^2y_1 + 2x_5y_1y_5 - y_1y_5^2)(x_1x_5^2 + 2x_1x_5y_5 - x_1y_5^2 - x_5^2y_1 + 2x_5y_1y_5 + y_1y_5^2) - \\
& b_{-2,0,0,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + x_1y_5 + x_5y_1 - y_1y_5) - \\
& b_{-2,0,0,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_4 - x_1y_4 + x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + y_1y_4) - \\
& b_{-2,0,0,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_4 - x_1y_4 + x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + y_1y_4) - \\
& b_{-2,0,0,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + x_1y_5 + x_5y_1 - y_1y_5) - \\
& b_{-2,0,0,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_4 - x_1y_4 + x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + y_1y_4) - \\
& b_{-2,0,0,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) - \\
& b_{-2,0,0,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) - \\
& b_{-2,0,0,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) - \\
& b_{-2,0,0,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_1x_5 - x_1y_5 - x_5y_1 - y_1y_5)(x_1x_5 + x_1y_5 + x_5y_1 - y_1y_5) - \\
& b_{-2,0,0,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_4 - x_1y_4 + x_4y_1 + y_1y_4)(x_1x_4 + x_1y_4 - x_4y_1 + y_1y_4) - \\
& b_{-2,0,0,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1x_3 - x_1y_3 + x_3y_1 + y_1y_3)(x_1x_3 + x_1y_3 - x_3y_1 + y_1y_3) - \\
& b_{-2,0,1,0,-1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 + x_1^2x_2x_4y_3y_5 - x_1^2x_2x_5y_3y_4 - \\
& x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 - \\
& 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + 2x_1x_3x_4x_5y_1y_2 + \\
& 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - x_2x_3y_1^2y_4y_5 - \\
& x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 - x_4x_5y_1^2y_2y_3 - \\
& y_1^2y_2y_3y_4y_5) - b_{-2,0,1,0,1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 + x_1^2x_2x_4y_3y_5 -
\end{aligned}$$

$$\begin{aligned}
& x_1^2 x_2 x_5 y_3 y_4 + x_1^2 x_3 x_4 y_2 y_5 - x_1^2 x_3 x_5 y_2 y_4 - x_1^2 x_4 x_5 y_2 y_3 - x_1^2 y_2 y_3 y_4 y_5 - \\
& 2x_1 x_2 x_3 x_4 y_1 y_5 + 2x_1 x_2 x_3 x_5 y_1 y_4 + 2x_1 x_2 x_4 x_5 y_1 y_3 + 2x_1 x_2 y_1 y_3 y_4 y_5 + \\
& 2x_1 x_3 x_4 x_5 y_1 y_2 + 2x_1 x_3 y_1 y_2 y_4 y_5 + 2x_1 x_4 y_1 y_2 y_3 y_5 - 2x_1 x_5 y_1 y_2 y_3 y_4 - x_2 x_3 x_4 x_5 y_1^2 - \\
& x_2 x_3 y_1^2 y_4 y_5 - x_2 x_4 y_1^2 y_3 y_5 + x_2 x_5 y_1^2 y_3 y_4 - x_3 x_4 y_1^2 y_2 y_5 + x_3 x_5 y_1^2 y_2 y_4 + \\
& x_4 x_5 y_1^2 y_2 y_3 + y_1^2 y_2 y_3 y_4 y_5) - b_{-2,0,2,0,-2,0,0,0,0}^r (x_1 x_2 x_3 - x_1 x_2 y_3 + x_1 x_3 y_2 + x_1 y_2 y_3 - \\
& x_2 x_3 y_1 - x_2 y_1 y_3 + x_3 y_1 y_2 - y_1 y_2 y_3) (x_1 x_2 x_3 + x_1 x_2 y_3 - x_1 x_3 y_2 + x_1 y_2 y_3 + x_2 x_3 y_1 - \\
& x_2 y_1 y_3 + x_3 y_1 y_2 + y_1 y_2 y_3) - b_{-2,0,2,0,0,0,-2,0,0}^r (x_1 x_2 x_4 - x_1 x_2 y_4 + x_1 x_4 y_2 + x_1 y_2 y_4 - x_2 x_4 y_1 - \\
& x_2 y_1 y_4 + x_4 y_1 y_2 - y_1 y_2 y_4) (x_1 x_2 x_4 + x_1 x_2 y_4 - x_1 x_4 y_2 + x_1 y_2 y_4 + x_2 x_4 y_1 - x_2 y_1 y_4 + \\
& x_4 y_1 y_2 + y_1 y_2 y_4) - b_{-2,0,2,0,0,0,0,2,0}^r (x_1 x_2 x_5 - x_1 x_2 y_5 - x_1 x_5 y_2 - x_1 y_2 y_5 + x_2 x_5 y_1 + x_2 y_1 y_5 + \\
& x_5 y_1 y_2 - y_1 y_2 y_5) (x_1 x_2 x_5 + x_1 x_2 y_5 + x_1 x_5 y_2 - x_1 y_2 y_5 - x_2 x_5 y_1 + x_2 y_1 y_5 + x_5 y_1 y_2 + \\
& y_1 y_2 y_5) - b_{-2,0,4,0,0,0,0,0,0}^r (x_1 x_2^2 - 2x_1 x_2 y_2 - x_1 y_2^2 + x_2^2 y_1 + 2x_2 y_1 y_2 - y_1 y_2^2) (x_1 x_2^2 + \\
& 2x_1 x_2 y_2 - x_1 y_2^2 - x_2^2 y_1 + 2x_2 y_1 y_2 + y_1 y_2^2) - b_{-2,1,-2,0,0,0,0,0,0}^r (x_1^2 + y_1^2) (x_1 x_2 - x_1 y_2 - x_2 y_1 - \\
& y_1 y_2) (x_1 x_2 + x_1 y_2 + x_2 y_1 - y_1 y_2) - b_{-2,1,0,0,0,0,0,0,-2,0}^r (x_1^2 + y_1^2) (x_1 x_5 - x_1 y_5 - x_5 y_1 - y_1 y_5) (x_1 x_5 + \\
& x_1 y_5 + x_5 y_1 - y_1 y_5) - b_{-2,1,0,0,0,0,2,0,0}^r (x_1^2 + y_1^2) (x_1 x_4 - x_1 y_4 + x_4 y_1 + y_1 y_4) (x_1 x_4 + x_1 y_4 - x_4 y_1 + \\
& y_1 y_4) - b_{-2,1,0,0,2,0,0,0,0}^r (x_1^2 + y_1^2) (x_1 x_3 - x_1 y_3 + x_3 y_1 + y_1 y_3) (x_1 x_3 + x_1 y_3 - x_3 y_1 + y_1 y_3) - \\
& b_{-3,0,-1,0,0,0,0,0,1}^r (x_5^2 + y_5^2) (x_1^3 x_2 - 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + y_1^3 y_2) - b_{-3,0,-1,0,0,0,0,1,0}^r (x_4^2 + \\
& y_4^2) (x_1^3 x_2 - 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + y_1^3 y_2) - b_{-3,0,-1,0,0,1,0,0,0}^r (x_3^2 + y_3^2) (x_1^3 x_2 - \\
& 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + y_1^3 y_2) - b_{-3,0,-1,1,0,0,0,0,0}^r (x_2^2 + y_2^2) (x_1^3 x_2 - 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + \\
& y_1^3 y_2) - b_{-3,0,0,0,-1,0,1,0,-1,0}^r (x_1^3 x_3 x_4 x_5 + x_1^3 x_3 y_4 y_5 - x_1^3 x_4 y_3 y_5 + x_1^3 x_5 y_3 y_4 - \\
& 3x_1^2 x_3 x_4 y_1 y_5 + 3x_1^2 x_3 x_5 y_1 y_4 - 3x_1^2 x_4 x_5 y_1 y_3 - 3x_1^2 y_1 y_3 y_4 y_5 - 3x_1 x_3 x_4 x_5 y_1^2 - \\
& 3x_1 x_3 y_1^2 y_4 y_5 + 3x_1 x_4 y_1^2 y_3 y_5 - 3x_1 x_5 y_1^2 y_3 y_4 + x_3 x_4 y_1^3 y_5 - x_3 x_5 y_1^3 y_4 + \\
& x_4 x_5 y_1^3 y_3 + y_1^3 y_3 y_4 y_5) - b_{-3,0,0,0,1,0,-1,0,-1,0}^r (x_1^3 x_3 x_4 x_5 - x_1^3 x_3 y_4 y_5 + x_1^3 x_4 y_3 y_5 + \\
& x_1^3 x_5 y_3 y_4 - 3x_1^2 x_3 x_4 y_1 y_5 - 3x_1^2 x_3 x_5 y_1 y_4 + 3x_1^2 x_4 x_5 y_1 y_3 - 3x_1^2 y_1 y_3 y_4 y_5 - \\
& 3x_1 x_3 x_4 x_5 y_1^2 + 3x_1 x_3 y_1^2 y_4 y_5 - 3x_1 x_4 y_1^2 y_3 y_5 - 3x_1 x_5 y_1^2 y_3 y_4 + x_3 x_4 y_1^3 y_5 + \\
& x_3 x_5 y_1^3 y_4 - x_4 x_5 y_1^3 y_3 + y_1^3 y_3 y_4 y_5) - b_{-3,0,0,0,1,0,1,0,1,0}^r (x_1^3 x_3 x_4 x_5 - x_1^3 x_3 y_4 y_5 - \\
& x_1^3 x_4 y_3 y_5 - x_1^3 x_5 y_3 y_4 + 3x_1^2 x_3 x_4 y_1 y_5 + 3x_1^2 x_3 x_5 y_1 y_4 + 3x_1^2 x_4 x_5 y_1 y_3 - \\
& 3x_1^2 y_1 y_3 y_4 y_5 - 3x_1 x_3 x_4 x_5 y_1^2 + 3x_1 x_3 y_1^2 y_4 y_5 + 3x_1 x_4 y_1^2 y_3 y_5 + 3x_1 x_5 y_1^2 y_3 y_4 - \\
& x_3 x_4 y_1^3 y_5 - x_3 x_5 y_1^3 y_4 - x_4 x_5 y_1^3 y_3 + y_1^3 y_3 y_4 y_5) - b_{-3,0,1,0,0,0,0,0,-2,0}^r (x_1^3 x_2 x_5^2 - \\
& x_1^3 x_2 y_5^2 + 2x_1^3 x_5 y_2 y_5 - 6x_1^2 x_2 x_5 y_1 y_5 + 3x_1^2 x_5^2 y_1 y_2 - 3x_1^2 y_1 y_2 y_5^2 - \\
& 3x_1 x_2 x_5^2 y_1^2 + 3x_1 x_2 y_1^2 y_5^2 - 6x_1 x_5 y_1^2 y_2 y_5 + 2x_2 x_5 y_1^3 y_5 - x_5^2 y_1^3 y_2 + y_1^3 y_2 y_5^2) - \\
& b_{-3,0,1,0,0,0,2,0,0,0}^r (x_1^3 x_2 x_4^2 - x_1^3 x_2 y_4^2 - 2x_1^3 x_4 y_2 y_4 + 6x_1^2 x_2 x_4 y_1 y_4 + 3x_1^2 x_4^2 y_1 y_2 - \\
& 3x_1^2 y_1 y_2 y_4^2 - 3x_1 x_2 x_4^2 y_1^2 + 3x_1 x_2 y_1^2 y_4^2 + 6x_1 x_4 y_1^2 y_2 y_4 - 2x_2 x_4 y_1^3 y_4 - \\
& x_4^2 y_1^3 y_2 + y_1^3 y_2 y_4^2) - b_{-3,0,1,0,2,0,0,0,0,0}^r (x_1^3 x_2 x_3^2 - x_1^3 x_2 y_3^2 - 2x_1^3 x_3 y_2 y_3 + \\
& 6x_1^2 x_2 x_3 y_1 y_3 + 3x_1^2 x_3^2 y_1 y_2 - 3x_1^2 y_1 y_2 y_3^2 - 3x_1 x_2 x_3^2 y_1^2 + 3x_1 x_2 y_1^2 y_3^2 + \\
& 6x_1 x_3 y_1^2 y_2 y_3 - 2x_2 x_3 y_1^3 y_3 - x_3^2 y_1^3 y_2 + y_1^3 y_2 y_3^2) - b_{-3,1,-1,0,0,0,0,0,0}^r (x_1^2 + \\
& y_1^2) (x_1^3 x_2 - 3x_1^2 y_1 y_2 - 3x_1 x_2 y_1^2 + y_1^3 y_2) - b_{-4,0,0,0,0,0,0,0,0,1}^r (x_5^2 + y_5^2) (x_1^2 - 2x_1 y_1 - \\
& y_1^2) (x_1^2 + 2x_1 y_1 - y_1^2) - b_{-4,0,0,0,0,0,0,1,0,0}^r (x_4^2 + y_4^2) (x_1^2 - 2x_1 y_1 - y_1^2) (x_1^2 + 2x_1 y_1 - y_1^2) - \\
& b_{-4,0,0,0,0,1,0,0,0,0}^r (x_3^2 + y_3^2) (x_1^2 - 2x_1 y_1 - y_1^2) (x_1^2 + 2x_1 y_1 - y_1^2) - b_{-4,0,0,1,0,0,0,0,0,0}^r (x_2^2 + \\
& y_2^2) (x_1^2 - 2x_1 y_1 - y_1^2) (x_1^2 + 2x_1 y_1 - y_1^2) - b_{-4,1,0,0,0,0,0,0,0,0}^r (x_1^2 + y_1^2) (x_1^2 - 2x_1 y_1 - \\
& y_1^2) (x_1^2 + 2x_1 y_1 - y_1^2) - b_{-5,0,1,0,0,0,0,0,0,0}^r (x_1^5 x_2 + 5x_1^4 y_1 y_2 - 10x_1^3 x_2 y_1^2 - 10x_1^2 y_1^3 y_2 + \\
& 5x_1 x_2 y_1^4 + y_1^5 y_2) - b_{0,0,-1,0,-1,0,-1,0,1,1}^r (x_5^2 + y_5^2) (x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - \\
& x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) - b_{0,0,-1,0,-1,0,-1,1,1,0}^r (x_4^2 + \\
& y_4^2) (x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 -
\end{aligned}$$

$$\begin{aligned}
& y_2 y_3 y_4 y_5) - b_{0,0,-1,0,-1,0,-3,0,-1,0}^r (x_2 x_3 x_4^3 x_5 - 3x_2 x_3 x_4^2 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_4^2 + x_2 x_3 y_4^3 y_5 - \\
& x_2 x_4^3 y_3 y_5 - 3x_2 x_4^2 x_5 y_3 y_4 + 3x_2 x_4 y_3 y_4^2 y_5 + x_2 x_5 y_3 y_4^3 - x_3 x_4^3 y_2 y_5 - \\
& 3x_3 x_4^2 x_5 y_2 y_4 + 3x_3 x_4 y_2 y_4^2 y_5 + x_3 x_5 y_2 y_4^3 - x_4^3 x_5 y_2 y_3 + 3x_4^2 y_2 y_3 y_4 y_5 + \\
& 3x_4 x_5 y_2 y_3 y_4^2 - y_2 y_3 y_4^3 y_5) - b_{0,0,-1,0,-1,0,1,0,-3,0}^r (x_2 x_3 x_4 x_5^3 - 3x_2 x_3 x_4 x_5 y_5^2 + \\
& 3x_2 x_3 x_5^2 y_4 y_5 - x_2 x_3 y_4 y_5^3 - 3x_2 x_4 x_5^2 y_3 y_5 + x_2 x_4 y_3 y_5^3 + x_2 x_5^3 y_3 y_4 - \\
& 3x_2 x_5 y_3 y_4 y_5^2 - 3x_3 x_4 x_5^2 y_2 y_5 + x_3 x_4 y_2 y_5^3 + x_3 x_5^3 y_2 y_4 - 3x_3 x_5 y_2 y_4 y_5^2 - \\
& x_4 x_5^3 y_2 y_3 + 3x_4 x_5 y_2 y_3 y_5^2 - 3x_5^2 y_2 y_3 y_4 y_5 + y_2 y_3 y_4 y_5^3) - b_{0,0,-1,0,-1,0,1,0,3,0}^r (x_2 x_3 x_4 x_5^3 - \\
& 3x_2 x_3 x_4 x_5 y_5^2 - 3x_2 x_3 x_5^2 y_4 y_5 + x_2 x_3 y_4 y_5^3 + 3x_2 x_4 x_5^2 y_3 y_5 - x_2 x_4 y_3 y_5^3 + \\
& x_2 x_5^3 y_3 y_4 - 3x_2 x_5 y_3 y_4 y_5^2 + 3x_3 x_4 x_5^2 y_2 y_5 - x_3 x_4 y_2 y_5^3 + x_3 x_5^3 y_2 y_4 - \\
& 3x_3 x_5 y_2 y_4 y_5^2 - x_4 x_5^3 y_2 y_3 + 3x_4 x_5 y_2 y_3 y_5^2 + 3x_5^2 y_2 y_3 y_4 y_5 - y_2 y_3 y_4 y_5^3) - \\
& b_{0,0,-1,0,-1,0,3,0,-1,0}^r (x_2 x_3 x_4^3 x_5 + 3x_2 x_3 x_4^2 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_4^2 - x_2 x_3 y_4^3 y_5 - x_2 x_4^3 y_3 y_5 + \\
& 3x_2 x_4^2 x_5 y_3 y_4 + 3x_2 x_4 y_3 y_4^2 y_5 - x_2 x_5 y_3 y_4^3 - x_3 x_4^3 y_2 y_5 + 3x_3 x_4^2 x_5 y_2 y_4 + \\
& 3x_3 x_4 y_2 y_4^2 y_5 - x_3 x_5 y_2 y_4^3 - x_4^3 x_5 y_2 y_3 - 3x_4^2 y_2 y_3 y_4 y_5 + 3x_4 x_5 y_2 y_3 y_4^2 + \\
& y_2 y_3 y_4^3 y_5) - b_{0,0,-1,0,-1,1,-1,0,1,0}^r (x_3^2 + y_3^2)(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 + \\
& x_3 x_4 y_2 y_5 - x_3 x_5 y_2 y_4 - x_4 x_5 y_2 y_3 - y_2 y_3 y_4 y_5) - b_{0,0,-1,0,-3,0,-1,0,-1,0}^r (x_2 x_3^3 x_4 x_5 - x_2 x_3^3 y_4 y_5 - \\
& 3x_2 x_3^2 x_4 y_3 y_5 - 3x_2 x_3^2 x_5 y_3 y_4 - 3x_2 x_3 x_4 x_5 y_3^2 + 3x_2 x_3 y_3^2 y_4 y_5 + x_2 x_4 y_3^3 y_5 + \\
& x_2 x_5 y_3^3 y_4 - x_3^3 x_4 y_2 y_5 - x_3^3 x_5 y_2 y_4 - 3x_3^2 x_4 x_5 y_2 y_3 + 3x_3^2 y_2 y_3 y_4 y_5 + \\
& 3x_3 x_4 y_2 y_3^2 y_5 + 3x_3 x_5 y_2 y_3^2 y_4 + x_4 x_5 y_2 y_3^3 - y_2 y_3^3 y_4 y_5) - b_{0,0,-1,0,-3,0,1,0,1,0}^r (x_2 x_3^3 x_4 x_5 - \\
& x_2 x_3^3 y_4 y_5 + 3x_2 x_3^2 x_4 y_3 y_5 + 3x_2 x_3^2 x_5 y_3 y_4 - 3x_2 x_3 x_4 x_5 y_3^2 + 3x_2 x_3 y_3^2 y_4 y_5 - \\
& x_2 x_4 y_3^3 y_5 - x_2 x_5 y_3^3 y_4 + x_3^3 x_4 y_2 y_5 + x_3^3 x_5 y_2 y_4 - 3x_3^2 x_4 x_5 y_2 y_3 + 3x_3^2 y_2 y_3 y_4 y_5 - \\
& 3x_3 x_4 y_2 y_3^2 y_5 - 3x_3 x_5 y_2 y_3^2 y_4 + x_4 x_5 y_2 y_3^3 - y_2 y_3^3 y_4 y_5) - \\
& b_{0,0,-1,0,1,0,-1,0,-3,0}^r (x_2 x_3 x_4 x_5^3 - 3x_2 x_3 x_4 x_5 y_5^2 - 3x_2 x_3 x_5^2 y_4 y_5 + x_2 x_3 y_4 y_5^3 + \\
& 3x_2 x_4 x_5^2 y_3 y_5 - x_2 x_4 y_3 y_5^3 + x_2 x_5^3 y_3 y_4 - 3x_2 x_5 y_3 y_4 y_5^2 - 3x_3 x_4 x_5^2 y_2 y_5 + \\
& x_3 x_4 y_2 y_5^3 - x_3 x_5^3 y_2 y_4 + 3x_3 x_5 y_2 y_4 y_5^2 + x_4 x_5^3 y_2 y_3 - 3x_4 x_5 y_2 y_3 y_5^2 - \\
& 3x_5^2 y_2 y_3 y_4 y_5 + y_2 y_3 y_4 y_5^3) - b_{0,0,-1,0,1,0,-1,0,3,0}^r (x_2 x_3 x_4 x_5^3 - 3x_2 x_3 x_4 x_5 y_5^2 + \\
& 3x_2 x_3 x_5^2 y_4 y_5 - x_2 x_3 y_4 y_5^3 - 3x_2 x_4 x_5^2 y_3 y_5 + x_2 x_4 y_3 y_5^3 + x_2 x_5^3 y_3 y_4 - \\
& 3x_2 x_5 y_3 y_4 y_5^2 + 3x_3 x_4 x_5^2 y_2 y_5 - x_3 x_4 y_2 y_5^3 - x_3 x_5^3 y_2 y_4 + 3x_3 x_5 y_2 y_4 y_5^2 + \\
& x_4 x_5^3 y_2 y_3 - 3x_4 x_5 y_2 y_3 y_5^2 + 3x_5^2 y_2 y_3 y_4 y_5 - y_2 y_3 y_4 y_5^3) - b_{0,0,-1,0,1,0,-3,0,1,0}^r (x_2 x_3 x_4^3 x_5 + \\
& 3x_2 x_3 x_4^2 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_4^2 - x_2 x_3 y_4^3 y_5 - x_2 x_4^3 y_3 y_5 + 3x_2 x_4^2 x_5 y_3 y_4 + \\
& 3x_2 x_4 y_3 y_4^2 y_5 - x_2 x_5 y_3 y_4^3 + x_3 x_4^3 y_2 y_5 - 3x_3 x_4^2 x_5 y_2 y_4 - 3x_3 x_4 y_2 y_4^2 y_5 + \\
& x_3 x_5 y_2 y_4^3 + x_4^3 x_5 y_2 y_3 + 3x_4^2 y_2 y_3 y_4 y_5 - 3x_4 x_5 y_2 y_3 y_4^2 - y_2 y_3 y_4^3 y_5) - \\
& b_{0,0,-1,0,1,0,1,0,-1,1}^r (x_5^2 + y_5^2)(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + \\
& x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) - b_{0,0,-1,0,1,0,1,1,-1,0}^r (x_4^2 + y_4^2)(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + \\
& x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) - \\
& b_{0,0,-1,0,1,0,3,0,1,0}^r (x_2 x_3 x_4^3 x_5 - 3x_2 x_3 x_4^2 y_4 y_5 - 3x_2 x_3 x_4 x_5 y_4^2 + x_2 x_3 y_4^3 y_5 - x_2 x_4^3 y_3 y_5 - \\
& 3x_2 x_4^2 x_5 y_3 y_4 + 3x_2 x_4 y_3 y_4^2 y_5 + x_2 x_5 y_3 y_4^3 + x_3 x_4^3 y_2 y_5 + 3x_3 x_4^2 x_5 y_2 y_4 - \\
& 3x_3 x_4 y_2 y_4^2 y_5 - x_3 x_5 y_2 y_4^3 + x_4^3 x_5 y_2 y_3 - 3x_4^2 y_2 y_3 y_4 y_5 - 3x_4 x_5 y_2 y_3 y_4^2 + \\
& y_2 y_3 y_4^3 y_5) - b_{0,0,-1,0,1,1,1,0,-1,0}^r (x_3^2 + y_3^2)(x_2 x_3 x_4 x_5 + x_2 x_3 y_4 y_5 + x_2 x_4 y_3 y_5 - x_2 x_5 y_3 y_4 - \\
& x_3 x_4 y_2 y_5 + x_3 x_5 y_2 y_4 + x_4 x_5 y_2 y_3 + y_2 y_3 y_4 y_5) - b_{0,0,-1,0,3,0,-1,0,-1,0}^r (x_2 x_3^3 x_4 x_5 - x_2 x_3^3 y_4 y_5 + \\
& 3x_2 x_3^2 x_4 y_3 y_5 + 3x_2 x_3^2 x_5 y_3 y_4 - 3x_2 x_3 x_4 x_5 y_3^2 + 3x_2 x_3 y_3^2 y_4 y_5 - x_2 x_4 y_3^3 y_5 - \\
& x_2 x_5 y_3^3 y_4 - x_3^3 x_4 y_2 y_5 - x_3^3 x_5 y_2 y_4 + 3x_3^2 x_4 x_5 y_2 y_3 - 3x_3^2 y_2 y_3 y_4 y_5 + \\
& 3x_3 x_4 y_2 y_3^2 y_5 + 3x_3 x_5 y_2 y_3^2 y_4 - x_4 x_5 y_2 y_3^3 + y_2 y_3^3 y_4 y_5) - b_{0,0,-1,0,3,0,1,0,1,0}^r (x_2 x_3^3 x_4 x_5 -
\end{aligned}$$

$$\begin{aligned}
& x_2x_3^3y_4y_5 - 3x_2x_3^2x_4y_3y_5 - 3x_2x_3^2x_5y_3y_4 - 3x_2x_3x_4x_5y_3^2 + 3x_2x_3y_3^2y_4y_5 + \\
& x_2x_4y_3^3y_5 + x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 + x_3^3x_5y_2y_4 + 3x_3^2x_4x_5y_2y_3 - 3x_3^2y_2y_3y_4y_5 - \\
& 3x_3x_4y_2y_3^2y_5 - 3x_3x_5y_2y_3^2y_4 - x_4x_5y_2y_3^3 + y_2y_3^3y_4y_5) - b_{0,0,-1,1,-1,0,-1,0,1,0}^r(x_2^2 + \\
& y_2^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 - \\
& y_2y_3y_4y_5) - b_{0,0,-1,1,1,0,1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - \\
& x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) - b_{0,0,-2,0,-2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 - x_2x_4y_3 - \\
& x_2y_3y_4 - x_3x_4y_2 - x_3y_2y_4 - x_4y_2y_3 + y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 + x_2x_4y_3 - x_2y_3y_4 + \\
& x_3x_4y_2 - x_3y_2y_4 - x_4y_2y_3 - y_2y_3y_4) - b_{0,0,-2,0,-2,0,0,0,2,0}^r(x_2x_3x_5 - x_2x_3y_5 + x_2x_5y_3 + x_2y_3y_5 + \\
& x_3x_5y_2 + x_3y_2y_5 - x_5y_2y_3 + y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 - x_2x_5y_3 + x_2y_3y_5 - x_3x_5y_2 + \\
& x_3y_2y_5 - x_5y_2y_3 - y_2y_3y_5) - b_{0,0,-2,0,-4,0,0,0,0,0}^r(x_2x_3^2 - 2x_2x_3y_3 - x_2y_3^2 - x_3^2y_2 - 2x_3y_2y_3 + \\
& y_2y_3^2)(x_2x_3^2 + 2x_2x_3y_3 - x_2y_3^2 + x_3^2y_2 - 2x_3y_2y_3 - y_2y_3^2) - b_{0,0,-2,0,0,0,-2,0,2,0}^r(x_2x_4x_5 - \\
& x_2x_4y_5 + x_2x_5y_4 + x_2y_4y_5 + x_4x_5y_2 + x_4y_2y_5 - x_5y_2y_4 + y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 - \\
& x_2x_5y_4 + x_2y_4y_5 - x_4x_5y_2 + x_4y_2y_5 - x_5y_2y_4 - y_2y_4y_5) - b_{0,0,-2,0,0,0,-4,0,0,0}^r(x_2x_4^2 - 2x_2x_4y_4 - \\
& x_2y_4^2 - x_4^2y_2 - 2x_4y_2y_4 + y_2y_4^2)(x_2x_4^2 + 2x_2x_4y_4 - x_2y_4^2 + x_4^2y_2 - 2x_4y_2y_4 - y_2y_4^2) - \\
& b_{0,0,-2,0,0,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) - \\
& b_{0,0,-2,0,0,0,0,0,4,0}^r(x_2x_5^2 - 2x_2x_5y_5 - x_2y_5^2 + x_5^2y_2 + 2x_5y_2y_5 - y_2y_5^2)(x_2x_5^2 + 2x_2x_5y_5 - \\
& x_2y_5^2 - x_5^2y_2 + 2x_5y_2y_5 + y_2y_5^2) - b_{0,0,-2,0,0,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_2x_5 - x_2y_5 - x_5y_2 - \\
& y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) - b_{0,0,-2,0,0,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + \\
& x_2y_4 - x_4y_2 + y_2y_4) - b_{0,0,-2,0,0,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + \\
& y_2y_4) - b_{0,0,-2,0,0,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) - \\
& b_{0,0,-2,0,0,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) - \\
& b_{0,0,-2,0,2,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) - \\
& b_{0,0,-2,0,2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) - \\
& b_{0,0,-2,0,2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) - \\
& b_{0,0,-2,1,0,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_2x_5 - x_2y_5 - x_5y_2 - y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) - \\
& b_{0,0,-2,1,0,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + x_2y_4 - x_4y_2 + y_2y_4) - \\
& b_{0,0,-2,1,2,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + y_2y_3) - \\
& b_{0,0,-3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4x_5 + x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 + \\
& 3x_2^2x_3x_5y_2y_4 - 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 - 3x_2x_3y_2^2y_4y_5 + \\
& 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 + x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 + x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) - \\
& b_{0,0,-3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 + x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 - \\
& 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 - \\
& 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 + x_3x_4y_2^3y_5 + x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) - \\
& b_{0,0,-3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 - x_2^3x_5y_3y_4 + 3x_2^2x_3x_4y_2y_5 + \\
& 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 - 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 + \\
& 3x_2x_4y_2^2y_3y_5 + 3x_2x_5y_2^2y_3y_4 - x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 + y_2^3y_3y_4y_5) - \\
& b_{0,0,-4,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - b_{0,0,-4,0,0,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - b_{0,0,-4,0,0,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_2^2 - 2x_2y_2 - \\
& y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - b_{0,0,-4,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - \\
& b_{0,0,0,0,-2,0,-2,0,-2,0}^r(x_3x_4x_5 - x_3x_4y_5 - x_3x_5y_4 - x_3y_4y_5 - x_4x_5y_3 - x_4y_3y_5 - x_5y_3y_4 + \\
& y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 + x_3x_5y_4 - x_3y_4y_5 + x_4x_5y_3 - x_4y_3y_5 - x_5y_3y_4 - y_3y_4y_5) - \\
& b_{0,0,0,0,-2,0,0,0,0,2}^r(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2)^2 - b_{0,0,0,0,-2,0,0,1,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2)(x_5^2 +
\end{aligned}$$

$$\begin{aligned}
& y_5^2) - b_{0,0,0,0,-2,0,0,2,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2)^2 - b_{0,0,0,0,-2,0,2,0,2,0}^r(x_3x_4x_5 - x_3x_4y_5 - x_3x_5y_4 - \\
& x_3y_4y_5 + x_4x_5y_3 + x_4y_3y_5 + x_5y_3y_4 - y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 + x_3x_5y_4 - x_3y_4y_5 - \\
& x_4x_5y_3 + x_4y_3y_5 + x_5y_3y_4 + y_3y_4y_5) - b_{0,0,0,0,-2,1,0,0,0,1}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2)(x_5^2 + y_5^2) - \\
& b_{0,0,0,0,-2,1,0,1,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2)(x_4^2 + y_4^2) - b_{0,0,0,0,-2,2,0,0,0,0}^r(x_3 - y_3)(x_3 + y_3)(x_3^2 + \\
& y_3^2)^2 - b_{0,0,0,0,-4,0,0,0,-2,0}^r(x_3^2x_5 - x_3^2y_5 - 2x_3x_5y_3 - 2x_3y_3y_5 - x_5y_3^2 + y_3^2y_5)(x_3^2x_5 + \\
& x_3^2y_5 + 2x_3x_5y_3 - 2x_3y_3y_5 - x_5y_3^2 - y_3^2y_5) - b_{0,0,0,0,-4,0,2,0,0,0}^r(x_3^2x_4 - x_3^2y_4 + 2x_3x_4y_3 + \\
& 2x_3y_3y_4 - x_4y_3^2 + y_3^2y_4)(x_3^2x_4 + x_3^2y_4 - 2x_3x_4y_3 + 2x_3y_3y_4 - x_4y_3^2 - y_3^2y_4) - \\
& b_{0,0,0,0,0,0,-2,0,0,2}^r(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2)^2 - b_{0,0,0,0,0,0,-2,1,0,1}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) - b_{0,0,0,0,0,0,-2,2,0,0}^r(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2)^2 - b_{0,0,0,0,0,0,-4,0,-2,0}^r(x_4^2x_5 - x_4^2y_5 - 2x_4x_5y_4 - \\
& 2x_4y_4y_5 - x_5y_4^2 + y_4^2y_5)(x_4^2x_5 + x_4^2y_5 + 2x_4x_5y_4 - 2x_4y_4y_5 - x_5y_4^2 - y_4^2y_5) - \\
& b_{0,0,0,0,0,0,0,0,-4,1}^r(x_5^2 + y_5^2)(x_5^2 - 2x_5y_5 - y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) - b_{0,0,0,0,0,0,0,0,2,2}^r(x_5 - y_5)(x_5 + \\
& y_5)(x_5^2 + y_5^2)^2 - b_{0,0,0,0,0,0,0,1,-4,0}^r(x_4^2 + y_4^2)(x_5^2 - 2x_5y_5 - y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) - \\
& b_{0,0,0,0,0,0,0,1,2,1}^r(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) - b_{0,0,0,0,0,0,2,2,0}^r(x_4^2 + y_4^2)^2(x_5 - y_5)(x_5 + \\
& y_5) - b_{0,0,0,0,0,0,2,0,-2,1}^r(x_5^2 + y_5^2)(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) - \\
& b_{0,0,0,0,0,0,2,0,4,0}^r(x_4x_5^2 - 2x_4x_5y_5 - x_4y_5^2 - x_5^2y_4 - 2x_5y_4y_5 + y_4y_5^2)(x_4x_5^2 + 2x_4x_5y_5 - \\
& x_4y_5^2 + x_5^2y_4 - 2x_5y_4y_5 - y_4y_5^2) - b_{0,0,0,0,0,0,2,1,-2,0}^r(x_4^2 + y_4^2)(x_4x_5 - x_4y_5 + x_5y_4 + \\
& y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) - b_{0,0,0,0,0,0,4,0,0,1}^r(x_5^2 + y_5^2)(x_4^2 - 2x_4y_4 - y_4^2)(x_4^2 + 2x_4y_4 - \\
& y_4^2) - b_{0,0,0,0,0,0,4,1,0,0}^r(x_4^2 + y_4^2)(x_4^2 - 2x_4y_4 - y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) - b_{0,0,0,0,0,1,-2,0,0,1}^r(x_3^2 + \\
& y_3^2)(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) - b_{0,0,0,0,0,1,-2,1,0,0}^r(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) - \\
& b_{0,0,0,0,0,1,0,0,-4,0}^r(x_3^2 + y_3^2)(x_5^2 - 2x_5y_5 - y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) - b_{0,0,0,0,0,1,0,0,2,1}^r(x_3^2 + y_3^2)(x_5 - \\
& y_5)(x_5 + y_5)(x_5^2 + y_5^2) - b_{0,0,0,0,0,1,0,1,2,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) - \\
& b_{0,0,0,0,0,1,2,0,-2,0}^r(x_3^2 + y_3^2)(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) - \\
& b_{0,0,0,0,0,1,4,0,0,0}^r(x_3^2 + y_3^2)(x_4^2 - 2x_4y_4 - y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) - b_{0,0,0,0,0,2,-2,0,0,0}^r(x_3^2 + \\
& y_3^2)^2(x_4 - y_4)(x_4 + y_4) - b_{0,0,0,0,0,2,0,0,2,0}^r(x_3^2 + y_3^2)^2(x_5 - y_5)(x_5 + y_5) - b_{0,0,0,0,2,0,-2,0,2,0}^r(x_3x_4x_5 - \\
& x_3x_4y_5 + x_3x_5y_4 + x_3y_4y_5 - x_4x_5y_3 - x_4y_3y_5 + x_5y_3y_4 - y_3y_4y_5)(x_3x_4x_5 + x_3x_4y_5 - \\
& x_3x_5y_4 + x_3y_4y_5 + x_4x_5y_3 - x_4y_3y_5 + x_5y_3y_4 + y_3y_4y_5) - b_{0,0,0,0,2,0,-4,0,0,0}^r(x_3x_4^2 - 2x_3x_4y_4 - \\
& x_3y_4^2 + x_4^2y_3 + 2x_4y_3y_4 - y_3y_4^2)(x_3x_4^2 + 2x_3x_4y_4 - x_3y_4^2 - x_4^2y_3 + 2x_4y_3y_4 + y_3y_4^2) - \\
& b_{0,0,0,0,2,0,0,0,-2,1}^r(x_5^2 + y_5^2)(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) - \\
& b_{0,0,0,0,2,0,0,0,4,0}^r(x_3x_5^2 - 2x_3x_5y_5 - x_3y_5^2 - x_5^2y_3 - 2x_5y_3y_5 + y_3y_5^2)(x_3x_5^2 + 2x_3x_5y_5 - \\
& x_3y_5^2 + x_5^2y_3 - 2x_5y_3y_5 - y_3y_5^2) - b_{0,0,0,0,2,0,0,1,-2,0}^r(x_4^2 + y_4^2)(x_3x_5 - x_3y_5 + x_5y_3 + \\
& y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) - b_{0,0,0,0,2,0,2,0,0,1}^r(x_5^2 + y_5^2)(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + \\
& x_3y_4 + x_4y_3 - y_3y_4) - b_{0,0,0,0,2,0,2,1,0,0}^r(x_4^2 + y_4^2)(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - \\
& y_3y_4) - b_{0,0,0,0,2,1,0,0,-2,0}^r(x_3^2 + y_3^2)(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) - \\
& b_{0,0,0,0,2,1,2,0,0,0}^r(x_3^2 + y_3^2)(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) - \\
& b_{0,0,0,0,4,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) - b_{0,0,0,0,4,0,0,1,0,0}^r(x_4^2 + \\
& y_4^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) - b_{0,0,0,0,4,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + \\
& 2x_3y_3 - y_3^2) - b_{0,0,0,1,-2,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) - b_{0,0,0,1,-2,0,0,1,0,0}^r(x_2^2 + \\
& y_2^2)(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2) - b_{0,0,0,1,-2,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) - \\
& b_{0,0,0,1,0,0,-2,0,0,1}^r(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + y_4)(x_5^2 + y_5^2) - b_{0,0,0,1,0,0,-2,1,0,0}^r(x_2^2 + y_2^2)(x_4 - y_4)(x_4 + \\
& y_4)(x_4^2 + y_4^2) - b_{0,0,0,1,0,0,0,0,-4,0}^r(x_2^2 + y_2^2)(x_5^2 - 2x_5y_5 - y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) - \\
& b_{0,0,0,1,0,0,0,0,2,1}^r(x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 + y_5^2) - b_{0,0,0,1,0,0,0,1,2,0}^r(x_2^2 + y_2^2)(x_4^2 + y_4^2)(x_5 - \\
& y_5)(x_5 + y_5) - b_{0,0,0,1,0,0,2,0,-2,0}^r(x_2^2 + y_2^2)(x_4x_5 - x_4y_5 + x_5y_4 + y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{0,0,0,1,0,0,4,0,0,0}^r(x_2^2 + y_2^2)(x_4^2 - 2x_4y_4 - y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) - b_{0,0,0,1,0,1,-2,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) - b_{0,0,0,1,0,1,0,0,2,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) - \\
& b_{0,0,0,1,2,0,0,0,-2,0}^r(x_2^2 + y_2^2)(x_3x_5 - x_3y_5 + x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) - b_{0,0,0,1,2,0,2,0,0,0}^r(x_2^2 + y_2^2)(x_3x_4 - x_3y_4 - x_4y_3 - y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) - \\
& b_{0,0,0,1,4,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - y_3^2) - b_{0,0,0,2,-2,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_3 - y_3)(x_3 + y_3) - b_{0,0,0,2,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)^2(x_4 - y_4)(x_4 + y_4) - b_{0,0,0,2,0,0,0,2,0}^r(x_2^2 + y_2^2)^2(x_5 - y_5)(x_5 + y_5) - b_{0,0,1,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - \\
& x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - b_{0,0,1,0,-1,0,-1,1,-1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - \\
& y_2y_3y_4y_5) - b_{0,0,1,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - b_{0,0,1,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - \\
& b_{0,0,1,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - b_{0,0,1,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - \\
& b_{0,0,1,0,-3,0,1,0,-1,0}^r(x_2x_3x_4x_5 + x_2x_3^3y_4y_5 - 3x_2x_3^2x_4y_3y_5 + 3x_2x_3^2x_5y_3y_4 - 3x_2x_3x_4x_5y_3^2 - 3x_2x_3x_3y_3^2y_4y_5 + x_2x_4y_3^3y_5 - x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 - x_3^3x_5y_2y_4 + \\
& 3x_3^2x_4x_5y_2y_3 + 3x_3^2y_2y_3y_4y_5 - 3x_3x_4y_2y_3^2y_5 + 3x_3x_5y_2y_3^2y_4 - x_4x_5y_2y_3^3 - y_2y_3^3y_4y_5) - b_{0,0,1,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - \\
& b_{0,0,1,0,1,0,-3,0,-1,0}^r(x_2x_3x_4^3x_5 - 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 + x_2x_3y_4^3y_5 + x_2x_4^3y_3y_5 + 3x_2x_4^2x_5y_3y_4 - 3x_2x_4y_3y_4^2y_5 - x_2x_5y_3y_4^3 + x_3x_4^3y_2y_5 + 3x_3x_4^2x_5y_2y_4 - \\
& 3x_3x_4y_2y_4^2y_5 - x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 + 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 - y_2y_3y_4^3y_5) - b_{0,0,1,0,1,0,1,0,-3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 + 3x_2x_3x_5^2y_4y_5 - x_2x_3y_4y_5^3 + \\
& 3x_2x_4x_5^2y_3y_5 - x_2x_4y_3y_5^3 - x_2x_5^3y_3y_4 + 3x_2x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_2y_5 - x_3x_4y_2y_5^3 - x_3x_5^3y_2y_4 + 3x_3x_5y_2y_4y_5^2 - x_4x_5^3y_2y_3 + 3x_4x_5y_2y_3y_5^2 - \\
& 3x_5^2y_2y_3y_4y_5 + y_2y_3y_4y_5^3) - b_{0,0,1,0,1,0,1,0,3,0}^r(x_2x_3x_4x_5^3 - 3x_2x_3x_4x_5y_5^2 - 3x_2x_3x_5^2y_4y_5 + x_2x_3y_4y_5^3 - 3x_2x_4x_5^2y_3y_5 + x_2x_4y_3y_5^3 - x_2x_5^3y_3y_4 + \\
& 3x_2x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_2y_5 + x_3x_4y_2y_5^3 - x_3x_5^3y_2y_4 + 3x_3x_5y_2y_4y_5^2 - x_4x_5^3y_2y_3 + 3x_4x_5y_2y_3y_5^2 - y_2y_3y_4y_5^3) - b_{0,0,1,0,1,0,3,0,-1,0}^r(x_2x_3x_4^3x_5 + 3x_2x_3x_4^2y_4y_5 - 3x_2x_3x_4x_5y_4^2 - x_2x_3y_4^3y_5 + x_2x_4^3y_3y_5 - 3x_2x_4^2x_5y_3y_4 - \\
& 3x_2x_4y_3y_4^2y_5 + x_2x_5y_3y_4^3 + x_3x_4^3y_2y_5 - 3x_3x_4^2x_5y_2y_4 - 3x_3x_4y_2y_4^2y_5 + x_3x_5y_2y_4^3 - x_4^3x_5y_2y_3 - 3x_4^2y_2y_3y_4y_5 + 3x_4x_5y_2y_3y_4^2 + y_2y_3y_4^3y_5) - \\
& b_{0,0,1,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - b_{0,0,1,0,3,0,1,0,-1,0}^r(x_2x_3^3x_4x_5 + x_2x_3^3y_4y_5 + \\
& 3x_2x_3^2x_4y_3y_5 - 3x_2x_3^2x_5y_3y_4 - 3x_2x_3x_4x_5y_3^2 - 3x_2x_3y_3^2y_4y_5 - x_2x_4y_3^3y_5 + x_2x_5y_3^3y_4 + x_3^3x_4y_2y_5 - x_3^3x_5y_2y_4 - 3x_3^2x_4x_5y_2y_3 - 3x_3^2y_2y_3y_4y_5 - \\
& 3x_3x_4y_2y_3^2y_5 + 3x_3x_5y_2y_3^2y_4 + x_4x_5y_2y_3^3 + y_2y_3^3y_4y_5) - b_{0,0,1,1,-1,0,-1,0,-1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - \\
& y_2y_3y_4y_5) - b_{0,0,1,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - b_{0,0,1,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_2x_3x_4x_5 + \\
& x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) -
\end{aligned}$$

$$\begin{aligned}
& x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - \\
& b_{0,0,2,0,-2,0,0,0,-2,0}^r(x_2x_3x_5 - x_2x_3y_5 - x_2x_5y_3 - x_2y_3y_5 + x_3x_5y_2 + x_3y_2y_5 + x_5y_2y_3 - \\
& y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 + x_2x_5y_3 - x_2y_3y_5 - x_3x_5y_2 + x_3y_2y_5 + x_5y_2y_3 + y_2y_3y_5) - \\
& b_{0,0,2,0,-2,0,2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 + x_2x_4y_3 + x_2y_3y_4 - x_3x_4y_2 - x_3y_2y_4 + x_4y_2y_3 - \\
& y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 - x_2x_4y_3 + x_2y_3y_4 + x_3x_4y_2 - x_3y_2y_4 + x_4y_2y_3 + y_2y_3y_4) - \\
& b_{0,0,2,0,0,0,-2,0,-2,0}^r(x_2x_4x_5 - x_2x_4y_5 - x_2x_5y_4 - x_2y_4y_5 + x_4x_5y_2 + x_4y_2y_5 + x_5y_2y_4 - \\
& y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 + x_2x_5y_4 - x_2y_4y_5 - x_4x_5y_2 + x_4y_2y_5 + x_5y_2y_4 + y_2y_4y_5) - \\
& b_{0,0,2,0,0,0,0,0,0,2}^r(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2)^2 - b_{0,0,2,0,0,0,0,1,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) - b_{0,0,2,0,0,0,0,2,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2)^2 - b_{0,0,2,0,0,0,2,0,2,0}^r(x_2x_4x_5 - x_2x_4y_5 - x_2x_5y_4 - \\
& x_2y_4y_5 - x_4x_5y_2 - x_4y_2y_5 - x_5y_2y_4 + y_2y_4y_5)(x_2x_4x_5 + x_2x_4y_5 + x_2x_5y_4 - x_2y_4y_5 + \\
& x_4x_5y_2 - x_4y_2y_5 - x_5y_2y_4 - y_2y_4y_5) - b_{0,0,2,0,0,1,0,0,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2)(x_5^2 + y_5^2) - \\
& b_{0,0,2,0,0,1,0,1,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_3^2 + y_3^2)(x_4^2 + y_4^2) - b_{0,0,2,0,0,2,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_3^2 + \\
& y_3^2)^2 - b_{0,0,2,0,2,0,-2,0,0,0}^r(x_2x_3x_4 - x_2x_3y_4 + x_2x_4y_3 + x_2y_3y_4 + x_3x_4y_2 + x_3y_2y_4 - x_4y_2y_3 + \\
& y_2y_3y_4)(x_2x_3x_4 + x_2x_3y_4 - x_2x_4y_3 + x_2y_3y_4 - x_3x_4y_2 + x_3y_2y_4 - x_4y_2y_3 - y_2y_3y_4) - \\
& b_{0,0,2,0,2,0,0,0,0,2,0}^r(x_2x_3x_5 - x_2x_3y_5 - x_2x_5y_3 - x_2y_3y_5 - x_3x_5y_2 - x_3y_2y_5 - x_5y_2y_3 + \\
& y_2y_3y_5)(x_2x_3x_5 + x_2x_3y_5 + x_2x_5y_3 - x_2y_3y_5 + x_3x_5y_2 - x_3y_2y_5 - x_5y_2y_3 - y_2y_3y_5) - \\
& b_{0,0,2,1,0,0,0,0,0,1}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 + y_2^2)(x_5^2 + y_5^2) - b_{0,0,2,1,0,0,0,1,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 + \\
& y_2^2)(x_4^2 + y_4^2) - b_{0,0,2,1,0,1,0,0,0,0}^r(x_2 - y_2)(x_2 + y_2)(x_2^2 + y_2^2)(x_3^2 + y_3^2) - b_{0,0,2,2,0,0,0,0,0,0}^r(x_2 - \\
& y_2)(x_2 + y_2)(x_2^2 + y_2^2)^2 - b_{0,0,3,0,-1,0,1,0,-1,0}^r(x_2^3x_3x_4x_5 + x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 + \\
& x_2^3x_5y_3y_4 + 3x_2^2x_3x_4y_2y_5 - 3x_2^2x_3x_5y_2y_4 + 3x_2^2x_4x_5y_2y_3 + 3x_2^2y_2y_3y_4y_5 - \\
& 3x_2x_3x_4x_5y_2^2 - 3x_2x_3y_2^2y_4y_5 + 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 - x_3x_4y_2^3y_5 + \\
& x_3x_5y_2^3y_4 - x_4x_5y_2^3y_3 - y_2^3y_3y_4y_5) - b_{0,0,3,0,1,0,-1,0,-1,0}^r(x_2^3x_3x_4x_5 - x_2^3x_3y_4y_5 + \\
& x_2^3x_4y_3y_5 + x_2^3x_5y_3y_4 + 3x_2^2x_3x_4y_2y_5 + 3x_2^2x_3x_5y_2y_4 - 3x_2^2x_4x_5y_2y_3 + \\
& 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 - 3x_2x_4y_2^2y_3y_5 - 3x_2x_5y_2^2y_3y_4 - \\
& x_3x_4y_2^3y_5 - x_3x_5y_2^3y_4 + x_4x_5y_2^3y_3 - y_2^3y_3y_4y_5) - b_{0,0,3,0,1,0,1,0,1,0}^r(x_2^3x_3x_4x_5 - \\
& x_2^3x_3y_4y_5 - x_2^3x_4y_3y_5 - x_2^3x_5y_3y_4 - 3x_2^2x_3x_4y_2y_5 - 3x_2^2x_3x_5y_2y_4 - \\
& 3x_2^2x_4x_5y_2y_3 + 3x_2^2y_2y_3y_4y_5 - 3x_2x_3x_4x_5y_2^2 + 3x_2x_3y_2^2y_4y_5 + 3x_2x_4y_2^2y_3y_5 + \\
& 3x_2x_5y_2^2y_3y_4 + x_3x_4y_2^3y_5 + x_3x_5y_2^3y_4 + x_4x_5y_2^3y_3 - y_2^3y_3y_4y_5) - \\
& b_{0,0,4,0,0,0,0,0,-2,0}^r(x_2^2x_5 - x_2^2y_5 + 2x_2x_5y_2 + 2x_2y_2y_5 - x_5y_2^2 + y_2^2y_5)(x_2^2x_5 + x_2^2y_5 - \\
& 2x_2x_5y_2 + 2x_2y_2y_5 - x_5y_2^2 - y_2^2y_5) - b_{0,0,4,0,0,0,2,0,0,0}^r(x_2^2x_4 - x_2^2y_4 - 2x_2x_4y_2 - 2x_2y_2y_4 - \\
& x_4y_2^2 + y_2^2y_4)(x_2^2x_4 + x_2^2y_4 + 2x_2x_4y_2 - 2x_2y_2y_4 - x_4y_2^2 - y_2^2y_4) - \\
& b_{0,0,4,0,2,0,0,0,0,0}^r(x_2^2x_3 - x_2^2y_3 - 2x_2x_3y_2 - 2x_2y_2y_3 - x_3y_2^2 + y_2^2y_3)(x_2^2x_3 + x_2^2y_3 + \\
& 2x_2x_3y_2 - 2x_2y_2y_3 - x_3y_2^2 - y_2^2y_3) - b_{0,1,-1,0,-1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 - x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - \\
& b_{0,1,-1,0,1,0,1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 + x_2x_4y_3y_5 - x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 + y_2y_3y_4y_5) - b_{0,1,-2,0,0,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_2x_5 - x_2y_5 - x_5y_2 - \\
& y_2y_5)(x_2x_5 + x_2y_5 + x_5y_2 - y_2y_5) - b_{0,1,-2,0,0,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_2x_4 - x_2y_4 + x_4y_2 + y_2y_4)(x_2x_4 + \\
& x_2y_4 - x_4y_2 + y_2y_4) - b_{0,1,-2,0,2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2x_3 - x_2y_3 + x_3y_2 + y_2y_3)(x_2x_3 + x_2y_3 - x_3y_2 + \\
& y_2y_3) - b_{0,1,-4,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 - 2x_2y_2 - y_2^2)(x_2^2 + 2x_2y_2 - y_2^2) - b_{0,1,0,0,-2,0,0,0,0,1}^r(x_1^2 + \\
& y_1^2)(x_3 - y_3)(x_3 + y_3)(x_5^2 + y_5^2) - b_{0,1,0,0,-2,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3)(x_4^2 + y_4^2) - \\
& b_{0,1,0,0,-2,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3 - y_3)(x_3 + y_3)(x_3^2 + y_3^2) - b_{0,1,0,0,0,0,-2,0,0,1}^r(x_1^2 + y_1^2)(x_4 - y_4)(x_4 + \\
& y_4)(x_5^2 + y_5^2) - b_{0,1,0,0,0,0,-2,1,0,0}^r(x_1^2 + y_1^2)(x_4 - y_4)(x_4 + y_4)(x_4^2 + y_4^2) - b_{0,1,0,0,0,0,0,0,-4,0}^r(x_1^2 + \\
& y_1^2)(x_5^2 - 2x_5y_5 - y_5^2)(x_5^2 + 2x_5y_5 - y_5^2) - b_{0,1,0,0,0,0,0,0,2,1}^r(x_1^2 + y_1^2)(x_5 - y_5)(x_5 + y_5)(x_5^2 +
\end{aligned}$$

$$\begin{aligned}
& y_5^2) - b_{0,1,0,0,0,0,1,2,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_5 - y_5)(x_5 + y_5) - b_{0,1,0,0,0,0,2,0,-2,0}^r(x_1^2 + y_1^2)(x_4x_5 - \\
& x_4y_5 + x_5y_4 + y_4y_5)(x_4x_5 + x_4y_5 - x_5y_4 + y_4y_5) - b_{0,1,0,0,0,0,4,0,0,0}^r(x_1^2 + y_1^2)(x_4^2 - 2x_4y_4 - \\
& y_4^2)(x_4^2 + 2x_4y_4 - y_4^2) - b_{0,1,0,0,0,1,-2,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_4 - y_4)(x_4 + y_4) - \\
& b_{0,1,0,0,0,1,0,0,2,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_5 - y_5)(x_5 + y_5) - b_{0,1,0,0,2,0,0,0,-2,0}^r(x_1^2 + y_1^2)(x_3x_5 - x_3y_5 + \\
& x_5y_3 + y_3y_5)(x_3x_5 + x_3y_5 - x_5y_3 + y_3y_5) - b_{0,1,0,0,2,0,2,0,0,0}^r(x_1^2 + y_1^2)(x_3x_4 - x_3y_4 - x_4y_3 - \\
& y_3y_4)(x_3x_4 + x_3y_4 + x_4y_3 - y_3y_4) - b_{0,1,0,0,4,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 - 2x_3y_3 - y_3^2)(x_3^2 + 2x_3y_3 - \\
& y_3^2) - b_{0,1,0,1,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_3 - y_3)(x_3 + y_3) - b_{0,1,0,1,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + \\
& y_2^2)(x_4 - y_4)(x_4 + y_4) - b_{0,1,0,1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_5 - y_5)(x_5 + y_5) - \\
& b_{0,1,1,0,-1,0,-1,0,-1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 - x_2x_4y_3y_5 - x_2x_5y_3y_4 + x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - b_{0,1,1,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 - x_2x_3y_4y_5 + \\
& x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 - x_3x_5y_2y_4 + x_4x_5y_2y_3 - y_2y_3y_4y_5) - \\
& b_{0,1,1,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_2x_3x_4x_5 + x_2x_3y_4y_5 - x_2x_4y_3y_5 + x_2x_5y_3y_4 - x_3x_4y_2y_5 + \\
& x_3x_5y_2y_4 - x_4x_5y_2y_3 - y_2y_3y_4y_5) - b_{0,1,2,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_5^2 + y_5^2) - \\
& b_{0,1,2,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_4^2 + y_4^2) - b_{0,1,2,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + \\
& y_2)(x_3^2 + y_3^2) - b_{0,1,2,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2 - y_2)(x_2 + y_2)(x_2^2 + y_2^2) - b_{0,2,0,0,-2,0,0,0,0,0}^r(x_1^2 + \\
& y_1^2)^2(x_3 - y_3)(x_3 + y_3) - b_{0,2,0,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)^2(x_4 - y_4)(x_4 + y_4) - b_{0,2,0,0,0,0,0,0,2,0}^r(x_1^2 + \\
& y_1^2)^2(x_5 - y_5)(x_5 + y_5) - b_{0,2,2,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_2 - y_2)(x_2 + y_2) - b_{1,0,-1,0,-2,0,0,0,0,1}^r(x_5^2 + \\
& y_5^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - \\
& b_{1,0,-1,0,-2,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - \\
& y_1y_2y_3^2) - b_{1,0,-1,0,-2,1,0,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + \\
& x_3^2y_1y_2 - y_1y_2y_3^2) - b_{1,0,-1,0,0,0,-2,0,0,1}^r(x_5^2 + y_5^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + \\
& 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - b_{1,0,-1,0,0,0,-2,1,0,0}^r(x_4^2 + y_4^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - \\
& 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - b_{1,0,-1,0,0,0,0,0,-4,0}^r(x_1x_2x_5^4 - 6x_1x_2x_5^2y_5^2 + \\
& x_1x_2y_5^4 - 4x_1x_5^3y_2y_5 + 4x_1x_5y_2y_5^3 + 4x_2x_5^3y_1y_5 - 4x_2x_5y_1y_5^3 + x_5^4y_1y_2 - \\
& 6x_5^2y_1y_2y_5^2 + y_1y_2y_5^4) - b_{1,0,-1,0,0,0,0,0,2,1}^r(x_5^2 + y_5^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - \\
& 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) - b_{1,0,-1,0,0,0,0,1,2,0}^r(x_4^2 + y_4^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + \\
& 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) - b_{1,0,-1,0,0,0,2,0,-2,0}^r(x_1x_2x_4^2x_5^2 - \\
& x_1x_2x_4^2y_5^2 + 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + x_1x_2y_4^2y_5^2 - 2x_1x_4^2x_5y_2y_5 + \\
& 2x_1x_4x_5^2y_2y_4 - 2x_1x_4y_2y_4y_5^2 + 2x_1x_5y_2y_4^2y_5 + 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + \\
& 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 + x_4^2x_5^2y_1y_2 - x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 - \\
& x_5^2y_1y_2y_4^2 + y_1y_2y_4^2y_5^2) - b_{1,0,-1,0,0,0,4,0,0,0}^r(x_1x_2x_4^4 - 6x_1x_2x_4^2y_4^2 + x_1x_2y_4^4 + \\
& 4x_1x_4^3y_2y_4 - 4x_1x_4y_2y_4^3 - 4x_2x_4^3y_1y_4 + 4x_2x_4y_1y_4^3 + x_4^4y_1y_2 - 6x_4^2y_1y_2y_4^2 + \\
& y_1y_2y_4^4) - b_{1,0,-1,0,0,1,-2,0,0,0}^r(x_3^2 + y_3^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + \\
& x_4^2y_1y_2 - y_1y_2y_4^2) - b_{1,0,-1,0,0,1,0,0,2,0}^r(x_3^2 + y_3^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - \\
& 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) - b_{1,0,-1,0,2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 + \\
& 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 - 2x_1x_3^2x_5y_2y_5 + 2x_1x_3x_5^2y_2y_3 - \\
& 2x_1x_3y_2y_3y_5^2 + 2x_1x_5y_2y_3^2y_5 + 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 - \\
& 2x_2x_5y_1y_3^2y_5 + x_3^2x_5^2y_1y_2 - x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 - x_5^2y_1y_2y_3^2 + \\
& y_1y_2y_3^2y_5^2) - b_{1,0,-1,0,2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 - 4x_1x_2x_3x_4y_3y_4 - \\
& x_1x_2x_4^2y_3^2 + x_1x_2y_3^2y_4^2 + 2x_1x_3^2x_4y_2y_4 + 2x_1x_3x_4^2y_2y_3 - 2x_1x_3y_2y_3y_4^2 - \\
& 2x_1x_4y_2y_3^2y_4 - 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 + \\
& x_3^2x_4^2y_1y_2 - x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 - x_4^2y_1y_2y_3^2 + y_1y_2y_3^2y_4^2) -
\end{aligned}$$



$$\begin{aligned}
& b_{1,0,-1,0,4,0,0,0,0}^r(x_1x_2x_3^4 - 6x_1x_2x_3^2y_3^2 + x_1x_2y_3^4 + 4x_1x_3^3y_2y_3 - 4x_1x_3y_2y_3^3 - \\
& 4x_2x_3^3y_1y_3 + 4x_2x_3y_1y_3^3 + x_3^4y_1y_2 - 6x_3^2y_1y_2y_3^2 + y_1y_2y_3^4) - b_{1,0,-1,1,-2,0,0,0,0}^r(x_2^2 + \\
& y_2^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - \\
& b_{1,0,-1,1,0,0,-2,0,0,0}^r(x_2^2 + y_2^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - \\
& y_1y_2y_4^2) - b_{1,0,-1,1,0,0,0,0,2,0}^r(x_2^2 + y_2^2)(x_1x_2x_5^2 - x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + \\
& x_5^2y_1y_2 - y_1y_2y_5^2) - b_{1,0,-2,0,-1,0,-1,0,1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 - \\
& x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 - 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 - x_2^2x_3x_4y_1y_5 + \\
& x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + \\
& 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 - x_4x_5y_1y_2^2y_3 - \\
& y_1y_2^2y_3y_4y_5) - b_{1,0,-2,0,1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 + x_1x_2^2x_4y_3y_5 - \\
& x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 + 2x_1x_2y_2y_3y_4y_5 - \\
& x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 + x_2^2x_3x_4y_1y_5 - \\
& x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 - x_2^2y_1y_3y_4y_5 + 2x_2x_3x_4x_5y_1y_2 + 2x_2x_3y_1y_2y_4y_5 + \\
& 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 + x_4x_5y_1y_2^2y_3 + \\
& y_1y_2^2y_3y_4y_5) - b_{1,0,-3,0,0,0,0,0,-2,0}^r(x_1x_2^3x_5^2 - x_1x_2^3y_5^2 - 6x_1x_2^2x_5y_2y_5 - 3x_1x_2x_5^2y_2^2 + \\
& 3x_1x_2y_2^2y_5^2 + 2x_1x_5y_2^3y_5 + 2x_2^3x_5y_1y_5 + 3x_2^2x_5^2y_1y_2 - 3x_2^2y_1y_2y_5^2 - \\
& 6x_2x_5y_1y_2^2y_5 - x_5^2y_1y_2^3 + y_1y_2^3y_5^2) - b_{1,0,-3,0,0,0,2,0,0,0}^r(x_1x_2^3x_4^2 - x_1x_2^3y_4^2 + \\
& 6x_1x_2^2x_4y_2y_4 - 3x_1x_2x_4^2y_2^2 + 3x_1x_2y_2^2y_4^2 - 2x_1x_4y_2^3y_4 - 2x_2^3x_4y_1y_4 + \\
& 3x_2^2x_4^2y_1y_2 - 3x_2^2y_1y_2y_4^2 + 6x_2x_4y_1y_2^2y_4 - x_4^2y_1y_2^3 + y_1y_2^3y_4^2) - \\
& b_{1,0,-3,0,2,0,0,0,0,0}^r(x_1x_2^3x_3^2 - x_1x_2^3y_3^2 + 6x_1x_2^2x_3y_2y_3 - 3x_1x_2x_3^2y_2^2 + 3x_1x_2y_2^2y_3^2 - \\
& 2x_1x_3y_2^3y_3 - 2x_2^3x_3y_1y_3 + 3x_2^2x_3^2y_1y_2 - 3x_2^2y_1y_2y_3^2 + 6x_2x_3y_1y_2^2y_3 - \\
& x_3^2y_1y_2^3 + y_1y_2^3y_3^2) - b_{1,0,-5,0,0,0,0,0,0,0}^r(x_1x_2^5 - 10x_1x_2^3y_2^2 + 5x_1x_2y_2^4 + 5x_2^4y_1y_2 - \\
& 10x_2^2y_1y_2^3 + y_1y_2^5) - b_{1,0,0,0,-1,0,-1,0,-1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - x_1x_4y_3y_5 - \\
& x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - b_{1,0,0,0,-1,0,-1,1,-1,0}^r(x_4^2 + \\
& y_4^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) - b_{1,0,0,0,-1,0,1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - b_{1,0,0,0,-1,0,1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 - \\
& x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& b_{1,0,0,0,-1,1,-1,0,-1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - b_{1,0,0,0,-1,1,1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + \\
& x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& b_{1,0,0,0,-3,0,1,0,-1,0}^r(x_1x_3^3x_4x_5 + x_1x_3^3y_4y_5 - 3x_1x_3^2x_4y_3y_5 + 3x_1x_3^2x_5y_3y_4 - \\
& 3x_1x_3x_4x_5y_3^2 - 3x_1x_3y_3^2y_4y_5 + x_1x_4y_3^3y_5 - x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 + \\
& 3x_3^2x_4x_5y_1y_3 + 3x_3^2y_1y_3y_4y_5 - 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 - x_4x_5y_1y_3^3 - \\
& y_1y_3^3y_4y_5) - b_{1,0,0,0,1,0,-1,0,1,1}^r(x_5^2 + y_5^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - b_{1,0,0,0,1,0,-1,1,1,0}^r(x_4^2 + y_4^2)(x_1x_3x_4x_5 + \\
& x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& b_{1,0,0,0,1,0,-3,0,-1,0}^r(x_1x_3x_4^3x_5 - 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 + x_1x_3y_4^3y_5 + x_1x_4^3y_3y_5 + \\
& 3x_1x_4^2x_5y_3y_4 - 3x_1x_4y_3y_4^2y_5 - x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 + 3x_3x_4^2x_5y_1y_4 - \\
& 3x_3x_4y_1y_4^2y_5 - x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 + 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 - \\
& y_1y_3y_4^3y_5) - b_{1,0,0,0,1,0,1,0,-3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 + 3x_1x_3x_5^2y_4y_5 - x_1x_3y_4y_5^3 +
\end{aligned}$$

$$\begin{aligned}
& 3x_1x_4x_5^2y_3y_5 - x_1x_4y_3y_5^3 - x_1x_5^3y_3y_4 + 3x_1x_5y_3y_4y_5^2 + 3x_3x_4x_5^2y_1y_5 - \\
& x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 - x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 - \\
& 3x_5^2y_1y_3y_4y_5 + y_1y_3y_4y_5^3) - b_{1,0,0,0,1,0,1,0,3,0}^r(x_1x_3x_4x_5^3 - 3x_1x_3x_4x_5y_5^2 - \\
& 3x_1x_3x_5^2y_4y_5 + x_1x_3y_4y_5^3 - 3x_1x_4x_5^2y_3y_5 + x_1x_4y_3y_5^3 - x_1x_5^3y_3y_4 + \\
& 3x_1x_5y_3y_4y_5^2 - 3x_3x_4x_5^2y_1y_5 + x_3x_4y_1y_5^3 - x_3x_5^3y_1y_4 + 3x_3x_5y_1y_4y_5^2 - \\
& x_4x_5^3y_1y_3 + 3x_4x_5y_1y_3y_5^2 + 3x_5^2y_1y_3y_4y_5 - y_1y_3y_4y_5^3) - b_{1,0,0,0,1,0,3,0,-1,0}^r(x_1x_3x_4^3x_5 + \\
& 3x_1x_3x_4^2y_4y_5 - 3x_1x_3x_4x_5y_4^2 - x_1x_3y_4^3y_5 + x_1x_4^3y_3y_5 - 3x_1x_4^2x_5y_3y_4 - \\
& 3x_1x_4y_3y_4^2y_5 + x_1x_5y_3y_4^3 + x_3x_4^3y_1y_5 - 3x_3x_4^2x_5y_1y_4 - 3x_3x_4y_1y_4^2y_5 + \\
& x_3x_5y_1y_4^3 - x_4^3x_5y_1y_3 - 3x_4^2y_1y_3y_4y_5 + 3x_4x_5y_1y_3y_4^2 + y_1y_3y_4^3y_5) - \\
& b_{1,0,0,0,1,1,-1,0,1,0}^r(x_3^2 + y_3^2)(x_1x_3x_4x_5 + x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + \\
& x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - b_{1,0,0,0,3,0,1,0,-1,0}^r(x_1x_3^3x_4x_5 + x_1x_3^3y_4y_5 + \\
& 3x_1x_3^2x_4y_3y_5 - 3x_1x_3^2x_5y_3y_4 - 3x_1x_3x_4x_5y_3^2 - 3x_1x_3y_3^2y_4y_5 - x_1x_4y_3^3y_5 + \\
& x_1x_5y_3^3y_4 + x_3^3x_4y_1y_5 - x_3^3x_5y_1y_4 - 3x_3^2x_4x_5y_1y_3 - 3x_3^2y_1y_3y_4y_5 - \\
& 3x_3x_4y_1y_3^2y_5 + 3x_3x_5y_1y_3^2y_4 + x_4x_5y_1y_3^3 + y_1y_3^3y_4y_5) - b_{1,0,0,1,-1,0,-1,0,-1,0}^r(x_2^2 + \\
& y_2^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) - b_{1,0,0,1,-1,0,1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - b_{1,0,0,1,1,0,-1,0,1,0}^r(x_2^2 + y_2^2)(x_1x_3x_4x_5 + \\
& x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& b_{1,0,1,0,-2,0,0,0,-2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 - 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + \\
& x_1x_2y_3^2y_5^2 + 2x_1x_3^2x_5y_2y_5 + 2x_1x_3x_5^2y_2y_3 - 2x_1x_3y_2y_3y_5^2 - 2x_1x_5y_2y_3^2y_5 + \\
& 2x_2x_3^2x_5y_1y_5 + 2x_2x_3x_5^2y_1y_3 - 2x_2x_3y_1y_3y_5^2 - 2x_2x_5y_1y_3^2y_5 - x_3^2x_5^2y_1y_2 + \\
& x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 + x_5^2y_1y_2y_3^2 - y_1y_2y_3^2y_5^2) - \\
& b_{1,0,1,0,-2,0,2,0,0,0}^r(x_1x_2x_3^2x_4^2 - x_1x_2x_3^2y_4^2 + 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + \\
& x_1x_2y_3^2y_4^2 - 2x_1x_3^2x_4y_2y_4 + 2x_1x_3x_4^2y_2y_3 - 2x_1x_3y_2y_3y_4^2 + 2x_1x_4y_2y_3^2y_4 - \\
& 2x_2x_3^2x_4y_1y_4 + 2x_2x_3x_4^2y_1y_3 - 2x_2x_3y_1y_3y_4^2 + 2x_2x_4y_1y_3^2y_4 - x_3^2x_4^2y_1y_2 + \\
& x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 + x_4^2y_1y_2y_3^2 - y_1y_2y_3^2y_4^2) - \\
& b_{1,0,1,0,0,0,-2,0,-2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 - 4x_1x_2x_4x_5y_4y_5 - x_1x_2x_5^2y_4^2 + \\
& x_1x_2y_4^2y_5^2 + 2x_1x_4^2x_5y_2y_5 + 2x_1x_4x_5^2y_2y_4 - 2x_1x_4y_2y_4y_5^2 - 2x_1x_5y_2y_4^2y_5 + \\
& 2x_2x_4^2x_5y_1y_5 + 2x_2x_4x_5^2y_1y_4 - 2x_2x_4y_1y_4y_5^2 - 2x_2x_5y_1y_4^2y_5 - x_4^2x_5^2y_1y_2 + \\
& x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 + x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) - b_{1,0,1,0,0,0,0,0,0,2}^r(x_5^2 + \\
& y_5^2)^2(x_1x_2 - y_1y_2) - b_{1,0,1,0,0,0,0,1,0,1}^r(x_4^2 + y_4^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) - b_{1,0,1,0,0,0,0,2,0,0}^r(x_4^2 + \\
& y_4^2)^2(x_1x_2 - y_1y_2) - b_{1,0,1,0,0,0,2,0,2,0}^r(x_1x_2x_4^2x_5^2 - x_1x_2x_4^2y_5^2 - 4x_1x_2x_4x_5y_4y_5 - \\
& x_1x_2x_5^2y_4^2 + x_1x_2y_4^2y_5^2 - 2x_1x_4^2x_5y_2y_5 - 2x_1x_4x_5^2y_2y_4 + 2x_1x_4y_2y_4y_5^2 + \\
& 2x_1x_5y_2y_4^2y_5 - 2x_2x_4^2x_5y_1y_5 - 2x_2x_4x_5^2y_1y_4 + 2x_2x_4y_1y_4y_5^2 + 2x_2x_5y_1y_4^2y_5 - \\
& x_4^2x_5^2y_1y_2 + x_4^2y_1y_2y_5^2 + 4x_4x_5y_1y_2y_4y_5 + x_5^2y_1y_2y_4^2 - y_1y_2y_4^2y_5^2) - \\
& b_{1,0,1,0,0,1,0,0,0,1}^r(x_3^2 + y_3^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) - b_{1,0,1,0,0,1,0,1,0,0}^r(x_3^2 + y_3^2)(x_4^2 + y_4^2)(x_1x_2 - \\
& y_1y_2) - b_{1,0,1,0,0,2,0,0,0,0}^r(x_3^2 + y_3^2)^2(x_1x_2 - y_1y_2) - b_{1,0,1,0,2,0,-2,0,0,0}^r(x_1x_2x_3^2x_4^2 - \\
& x_1x_2x_3^2y_4^2 + 4x_1x_2x_3x_4y_3y_4 - x_1x_2x_4^2y_3^2 + x_1x_2y_3^2y_4^2 + 2x_1x_3^2x_4y_2y_4 - \\
& 2x_1x_3x_4^2y_2y_3 + 2x_1x_3y_2y_3y_4^2 - 2x_1x_4y_2y_3^2y_4 + 2x_2x_3^2x_4y_1y_4 - 2x_2x_3x_4^2y_1y_3 + \\
& 2x_2x_3y_1y_3y_4^2 - 2x_2x_4y_1y_3^2y_4 - x_3^2x_4^2y_1y_2 + x_3^2y_1y_2y_4^2 - 4x_3x_4y_1y_2y_3y_4 + \\
& x_4^2y_1y_2y_3^2 - y_1y_2y_3^2y_4^2) - b_{1,0,1,0,2,0,0,0,2,0}^r(x_1x_2x_3^2x_5^2 - x_1x_2x_3^2y_5^2 - \\
& 4x_1x_2x_3x_5y_3y_5 - x_1x_2x_5^2y_3^2 + x_1x_2y_3^2y_5^2 - 2x_1x_3^2x_5y_2y_5 - 2x_1x_3x_5^2y_2y_3 +
\end{aligned}$$

$$\begin{aligned}
& 2x_1x_3y_2y_3y_5^2 + 2x_1x_5y_2y_3^2y_5 - 2x_2x_3^2x_5y_1y_5 - 2x_2x_3x_5^2y_1y_3 + 2x_2x_3y_1y_3y_5^2 + \\
& 2x_2x_5y_1y_3^2y_5 - x_3^2x_5^2y_1y_2 + x_3^2y_1y_2y_5^2 + 4x_3x_5y_1y_2y_3y_5 + x_5^2y_1y_2y_3^2 - \\
& y_1y_2y_3^2y_5^2) - b_{1,0,1,1,0,0,0,0,0,1}^r(x_2^2 + y_2^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) - b_{1,0,1,1,0,0,0,1,0,0}^r(x_2^2 + \\
& y_2^2)(x_4^2 + y_4^2)(x_1x_2 - y_1y_2) - b_{1,0,1,1,0,1,0,0,0,0}^r(x_2^2 + y_2^2)(x_3^2 + y_3^2)(x_1x_2 - y_1y_2) - \\
& b_{1,0,1,2,0,0,0,0,0,0}^r(x_2^2 + y_2^2)^2(x_1x_2 - y_1y_2) - b_{1,0,2,0,-1,0,1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 + x_1x_2^2x_3y_4y_5 - \\
& x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 + 2x_1x_2x_4x_5y_2y_3 + \\
& 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 - x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + \\
& x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 + x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 - \\
& 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 - \\
& x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) - b_{1,0,2,0,1,0,-1,0,-1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 + \\
& x_1x_2^2x_4y_3y_5 + x_1x_2^2x_5y_3y_4 + 2x_1x_2x_3x_4y_2y_5 + 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 + \\
& 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 - x_1x_4y_2^2y_3y_5 - x_1x_5y_2^2y_3y_4 + \\
& x_2^2x_3x_4y_1y_5 + x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + \\
& 2x_2x_3y_1y_2y_4y_5 - 2x_2x_4y_1y_2y_3y_5 - 2x_2x_5y_1y_2y_3y_4 - x_3x_4y_1y_2^2y_5 - x_3x_5y_1y_2^2y_4 + \\
& x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) - b_{1,0,2,0,1,0,1,0,1,0}^r(x_1x_2^2x_3x_4x_5 - x_1x_2^2x_3y_4y_5 - \\
& x_1x_2^2x_4y_3y_5 - x_1x_2^2x_5y_3y_4 - 2x_1x_2x_3x_4y_2y_5 - 2x_1x_2x_3x_5y_2y_4 - 2x_1x_2x_4x_5y_2y_3 + \\
& 2x_1x_2y_2y_3y_4y_5 - x_1x_3x_4x_5y_2^2 + x_1x_3y_2^2y_4y_5 + x_1x_4y_2^2y_3y_5 + x_1x_5y_2^2y_3y_4 - \\
& x_2^2x_3x_4y_1y_5 - x_2^2x_3x_5y_1y_4 - x_2^2x_4x_5y_1y_3 + x_2^2y_1y_3y_4y_5 - 2x_2x_3x_4x_5y_1y_2 + \\
& 2x_2x_3y_1y_2y_4y_5 + 2x_2x_4y_1y_2y_3y_5 + 2x_2x_5y_1y_2y_3y_4 + x_3x_4y_1y_2^2y_5 + x_3x_5y_1y_2^2y_4 + \\
& x_4x_5y_1y_2^2y_3 - y_1y_2^2y_3y_4y_5) - b_{1,0,3,0,0,0,0,0,-2,0}^r(x_1x_2^2x_5^2 - x_1x_2^2y_5^2 + 6x_1x_2^2x_5y_2y_5 - \\
& 3x_1x_2x_5^2y_2^2 + 3x_1x_2y_2^2y_5^2 - 2x_1x_5y_2^3y_5 + 2x_2^3x_5y_1y_5 - 3x_2^2x_5^2y_1y_2 + \\
& 3x_2^2y_1y_2y_5^2 - 6x_2x_5y_1y_2^2y_5 + x_5^2y_1y_2^3 - y_1y_2^3y_5^2) - b_{1,0,3,0,0,0,2,0,0,0}^r(x_1x_2^2x_4^2 - \\
& x_1x_2^2y_4^2 - 6x_1x_2^2x_4y_2y_4 - 3x_1x_2x_4^2y_2^2 + 3x_1x_2y_2^2y_4^2 + 2x_1x_4y_2^3y_4 - \\
& 2x_2^3x_4y_1y_4 - 3x_2^2x_4^2y_1y_2 + 3x_2^2y_1y_2y_4^2 + 6x_2x_4y_1y_2^2y_4 + x_4^2y_1y_2^3 - y_1y_2^3y_4^2) - \\
& b_{1,0,3,0,2,0,0,0,0,0}^r(x_1x_2^2x_3^2 - x_1x_2^2y_3^2 - 6x_1x_2^2x_3y_2y_3 - 3x_1x_2x_3^2y_2^2 + 3x_1x_2y_2^2y_3^2 + \\
& 2x_1x_3y_2^3y_3 - 2x_2^3x_3y_1y_3 - 3x_2^2x_3^2y_1y_2 + 3x_2^2y_1y_2y_3^2 + 6x_2x_3y_1y_2^2y_3 + \\
& x_3^2y_1y_2^3 - y_1y_2^3y_3^2) - b_{1,1,-1,0,-2,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_3^2 - x_1x_2y_3^2 - 2x_1x_3y_2y_3 + \\
& 2x_2x_3y_1y_3 + x_3^2y_1y_2 - y_1y_2y_3^2) - b_{1,1,-1,0,0,0,-2,0,0,0}^r(x_1^2 + y_1^2)(x_1x_2x_4^2 - x_1x_2y_4^2 - \\
& 2x_1x_4y_2y_4 + 2x_2x_4y_1y_4 + x_4^2y_1y_2 - y_1y_2y_4^2) - b_{1,1,-1,0,0,0,0,2,0}^r(x_1^2 + y_1^2)(x_1x_2x_5^2 - \\
& x_1x_2y_5^2 + 2x_1x_5y_2y_5 - 2x_2x_5y_1y_5 + x_5^2y_1y_2 - y_1y_2y_5^2) - b_{1,1,0,0,-1,0,-1,0,-1,0}^r(x_1^2 + \\
& y_1^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 - x_1x_4y_3y_5 - x_1x_5y_3y_4 + x_3x_4y_1y_5 + x_3x_5y_1y_4 + x_4x_5y_1y_3 - \\
& y_1y_3y_4y_5) - b_{1,1,0,0,-1,0,1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 - x_1x_3y_4y_5 + x_1x_4y_3y_5 + x_1x_5y_3y_4 - \\
& x_3x_4y_1y_5 - x_3x_5y_1y_4 + x_4x_5y_1y_3 - y_1y_3y_4y_5) - b_{1,1,0,0,1,0,-1,0,1,0}^r(x_1^2 + y_1^2)(x_1x_3x_4x_5 + \\
& x_1x_3y_4y_5 - x_1x_4y_3y_5 + x_1x_5y_3y_4 - x_3x_4y_1y_5 + x_3x_5y_1y_4 - x_4x_5y_1y_3 - y_1y_3y_4y_5) - \\
& b_{1,1,1,0,0,0,0,0,0,1}^r(x_1^2 + y_1^2)(x_5^2 + y_5^2)(x_1x_2 - y_1y_2) - b_{1,1,1,0,0,0,0,1,0,0}^r(x_1^2 + y_1^2)(x_4^2 + y_4^2)(x_1x_2 - \\
& y_1y_2) - b_{1,1,1,0,0,1,0,0,0,0}^r(x_1^2 + y_1^2)(x_3^2 + y_3^2)(x_1x_2 - y_1y_2) - b_{1,1,1,1,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_2^2 + \\
& y_2^2)(x_1x_2 - y_1y_2) - b_{1,2,1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)^2(x_1x_2 - y_1y_2) - b_{2,0,-1,0,-1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - \\
& x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 - x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 - \\
& x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - \\
& 2x_1x_2y_1y_3y_4y_5 + 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - \\
& 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 + \\
& x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 + x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) -
\end{aligned}$$

$$\begin{aligned}
& b_{2,0,-1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + \\
& x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 - \\
& 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + 2x_1x_3x_4x_5y_1y_2 - \\
& 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + x_2x_3y_1^2y_4y_5 - \\
& x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 + x_4x_5y_1^2y_2y_3 - \\
& y_1^2y_2y_3y_4y_5) - b_{2,0,-1,0,1,0,-1,0,1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 + \\
& x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 - \\
& 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 - 2x_1x_2y_1y_3y_4y_5 + \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) - b_{2,0,-2,0,-2,0,0,0,0,0}^r(x_1x_2x_3 - x_1x_2y_3 - x_1x_3y_2 - x_1y_2y_3 + \\
& x_2x_3y_1 + x_2y_1y_3 + x_3y_1y_2 - y_1y_2y_3)(x_1x_2x_3 + x_1x_2y_3 + x_1x_3y_2 - x_1y_2y_3 - x_2x_3y_1 + \\
& x_2y_1y_3 + x_3y_1y_2 + y_1y_2y_3) - b_{2,0,-2,0,0,0,-2,0,0,0}^r(x_1x_2x_4 - x_1x_2y_4 - x_1x_4y_2 - x_1y_2y_4 + x_2x_4y_1 + \\
& x_2y_1y_4 + x_4y_1y_2 - y_1y_2y_4)(x_1x_2x_4 + x_1x_2y_4 + x_1x_4y_2 - x_1y_2y_4 - x_2x_4y_1 + x_2y_1y_4 + \\
& x_4y_1y_2 + y_1y_2y_4) - b_{2,0,-2,0,0,0,0,0,2,0}^r(x_1x_2x_5 - x_1x_2y_5 + x_1x_5y_2 + x_1y_2y_5 - x_2x_5y_1 - x_2y_1y_5 + \\
& x_5y_1y_2 - y_1y_2y_5)(x_1x_2x_5 + x_1x_2y_5 - x_1x_5y_2 + x_1y_2y_5 + x_2x_5y_1 - x_2y_1y_5 + x_5y_1y_2 + \\
& y_1y_2y_5) - b_{2,0,0,0,-2,0,0,0,-2,0}^r(x_1x_3x_5 - x_1x_3y_5 - x_1x_5y_3 - x_1y_3y_5 + x_3x_5y_1 + x_3y_1y_5 + x_5y_1y_3 - \\
& y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 + x_1x_5y_3 - x_1y_3y_5 - x_3x_5y_1 + x_3y_1y_5 + x_5y_1y_3 + y_1y_3y_5) - \\
& b_{2,0,0,0,-2,0,2,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 + x_1x_4y_3 + x_1y_3y_4 - x_3x_4y_1 - x_3y_1y_4 + x_4y_1y_3 - \\
& y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 - x_1x_4y_3 + x_1y_3y_4 + x_3x_4y_1 - x_3y_1y_4 + x_4y_1y_3 + y_1y_3y_4) - \\
& b_{2,0,0,0,0,0,-2,0,-2,0}^r(x_1x_4x_5 - x_1x_4y_5 - x_1x_5y_4 - x_1y_4y_5 + x_4x_5y_1 + x_4y_1y_5 + x_5y_1y_4 - \\
& y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 + x_1x_5y_4 - x_1y_4y_5 - x_4x_5y_1 + x_4y_1y_5 + x_5y_1y_4 + y_1y_4y_5) - \\
& b_{2,0,0,0,0,0,0,0,0,2}^r(x_1 - y_1)(x_1 + y_1)(x_5^2 + y_5^2)^2 - b_{2,0,0,0,0,0,0,1,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2)(x_5^2 + \\
& y_5^2) - b_{2,0,0,0,0,0,0,2,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_4^2 + y_4^2)^2 - b_{2,0,0,0,0,0,2,0,2,0}^r(x_1x_4x_5 - x_1x_4y_5 - x_1x_5y_4 - \\
& x_1y_4y_5 - x_4x_5y_1 - x_4y_1y_5 - x_5y_1y_4 + y_1y_4y_5)(x_1x_4x_5 + x_1x_4y_5 + x_1x_5y_4 - x_1y_4y_5 + \\
& x_4x_5y_1 - x_4y_1y_5 - x_5y_1y_4 - y_1y_4y_5) - b_{2,0,0,0,0,1,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2)(x_5^2 + y_5^2) - \\
& b_{2,0,0,0,0,1,0,1,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_3^2 + y_3^2)(x_4^2 + y_4^2) - b_{2,0,0,0,0,2,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_3^2 + \\
& y_3^2)^2 - b_{2,0,0,0,2,0,-2,0,0,0}^r(x_1x_3x_4 - x_1x_3y_4 + x_1x_4y_3 + x_1y_3y_4 + x_3x_4y_1 + x_3y_1y_4 - x_4y_1y_3 + \\
& y_1y_3y_4)(x_1x_3x_4 + x_1x_3y_4 - x_1x_4y_3 + x_1y_3y_4 - x_3x_4y_1 + x_3y_1y_4 - x_4y_1y_3 - y_1y_3y_4) - \\
& b_{2,0,0,0,2,0,0,0,2,0}^r(x_1x_3x_5 - x_1x_3y_5 - x_1x_5y_3 - x_1y_3y_5 - x_3x_5y_1 - x_3y_1y_5 - x_5y_1y_3 + \\
& y_1y_3y_5)(x_1x_3x_5 + x_1x_3y_5 + x_1x_5y_3 - x_1y_3y_5 + x_3x_5y_1 - x_3y_1y_5 - x_5y_1y_3 - y_1y_3y_5) - \\
& b_{2,0,0,1,0,0,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2)(x_5^2 + y_5^2) - b_{2,0,0,1,0,0,0,1,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + \\
& y_2^2)(x_4^2 + y_4^2) - b_{2,0,0,1,0,1,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_2^2 + y_2^2)(x_3^2 + y_3^2) - b_{2,0,0,2,0,0,0,0,0,0}^r(x_1 - \\
& y_1)(x_1 + y_1)(x_2^2 + y_2^2)^2 - b_{2,0,1,0,-1,0,1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 + x_1^2x_2x_3y_4y_5 - x_1^2x_2x_4y_3y_5 + \\
& x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 + x_1^2x_4x_5y_2y_3 + x_1^2y_2y_3y_4y_5 + \\
& 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 + 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 - 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 - \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 - \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) - b_{2,0,1,0,1,0,-1,0,-1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 + \\
& x_1^2x_2x_4y_3y_5 + x_1^2x_2x_5y_3y_4 + x_1^2x_3x_4y_2y_5 + x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 + 2x_1x_2x_3x_4y_1y_5 + 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 - 2x_1x_4y_1y_2y_3y_5 - 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 - x_2x_4y_1^2y_3y_5 - x_2x_5y_1^2y_3y_4 - x_3x_4y_1^2y_2y_5 - x_3x_5y_1^2y_2y_4 +
\end{aligned}$$

$$\begin{aligned}
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) - b_{2,0,1,0,1,0,1,0,1,0}^r(x_1^2x_2x_3x_4x_5 - x_1^2x_2x_3y_4y_5 - \\
& x_1^2x_2x_4y_3y_5 - x_1^2x_2x_5y_3y_4 - x_1^2x_3x_4y_2y_5 - x_1^2x_3x_5y_2y_4 - x_1^2x_4x_5y_2y_3 + \\
& x_1^2y_2y_3y_4y_5 - 2x_1x_2x_3x_4y_1y_5 - 2x_1x_2x_3x_5y_1y_4 - 2x_1x_2x_4x_5y_1y_3 + 2x_1x_2y_1y_3y_4y_5 - \\
& 2x_1x_3x_4x_5y_1y_2 + 2x_1x_3y_1y_2y_4y_5 + 2x_1x_4y_1y_2y_3y_5 + 2x_1x_5y_1y_2y_3y_4 - x_2x_3x_4x_5y_1^2 + \\
& x_2x_3y_1^2y_4y_5 + x_2x_4y_1^2y_3y_5 + x_2x_5y_1^2y_3y_4 + x_3x_4y_1^2y_2y_5 + x_3x_5y_1^2y_2y_4 + \\
& x_4x_5y_1^2y_2y_3 - y_1^2y_2y_3y_4y_5) - b_{2,0,2,0,0,0,0,0,-2,0}^r(x_1x_2x_5 - x_1x_2y_5 + x_1x_5y_2 + x_1y_2y_5 + \\
& x_2x_5y_1 + x_2y_1y_5 - x_5y_1y_2 + y_1y_2y_5)(x_1x_2x_5 + x_1x_2y_5 - x_1x_5y_2 + x_1y_2y_5 - x_2x_5y_1 + \\
& x_2y_1y_5 - x_5y_1y_2 - y_1y_2y_5) - b_{2,0,2,0,0,0,2,0,0,0}^r(x_1x_2x_4 - x_1x_2y_4 - x_1x_4y_2 - x_1y_2y_4 - x_2x_4y_1 - \\
& x_2y_1y_4 - x_4y_1y_2 + y_1y_2y_4)(x_1x_2x_4 + x_1x_2y_4 + x_1x_4y_2 - x_1y_2y_4 + x_2x_4y_1 - x_2y_1y_4 - \\
& x_4y_1y_2 - y_1y_2y_4) - b_{2,0,2,0,2,0,0,0,0,0}^r(x_1x_2x_3 - x_1x_2y_3 - x_1x_3y_2 - x_1y_2y_3 - x_2x_3y_1 - x_2y_1y_3 - \\
& x_3y_1y_2 + y_1y_2y_3)(x_1x_2x_3 + x_1x_2y_3 + x_1x_3y_2 - x_1y_2y_3 + x_2x_3y_1 - x_2y_1y_3 - x_3y_1y_2 - \\
& y_1y_2y_3) - b_{2,1,0,0,0,0,0,0,0,1}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_5^2 + y_5^2) - b_{2,1,0,0,0,0,0,1,0,0}^r(x_1 - y_1)(x_1 + \\
& y_1)(x_1^2 + y_1^2)(x_4^2 + y_4^2) - b_{2,1,0,0,0,1,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_3^2 + y_3^2) - \\
& b_{2,1,0,1,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + y_1^2)(x_2^2 + y_2^2) - b_{2,2,0,0,0,0,0,0,0,0}^r(x_1 - y_1)(x_1 + y_1)(x_1^2 + \\
& y_1^2)^2 - b_{3,0,-1,0,0,0,0,0,0,1}^r(x_5^2 + y_5^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) - \\
& b_{3,0,-1,0,0,0,0,1,0,0}^r(x_4^2 + y_4^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) - b_{3,0,-1,0,0,1,0,0,0,0}^r(x_3^2 + \\
& y_3^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) - b_{3,0,-1,1,0,0,0,0,0,0}^r(x_2^2 + y_2^2)(x_1^3x_2 + \\
& 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) - b_{3,0,0,0,-1,0,1,0,-1,0}^r(x_1^3x_3x_4x_5 + x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 + \\
& x_1^3x_5y_3y_4 + 3x_1^2x_3x_4y_1y_5 - 3x_1^2x_3x_5y_1y_4 + 3x_1^2x_4x_5y_1y_3 + 3x_1^2y_1y_3y_4y_5 - \\
& 3x_1x_3x_4x_5y_1^2 - 3x_1x_3y_1^2y_4y_5 + 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 - x_3x_4y_1^3y_5 + \\
& x_3x_5y_1^3y_4 - x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) - b_{3,0,0,0,1,0,-1,0,-1,0}^r(x_1^3x_3x_4x_5 - x_1^3x_3y_4y_5 + \\
& x_1^3x_4y_3y_5 + x_1^3x_5y_3y_4 + 3x_1^2x_3x_4y_1y_5 + 3x_1^2x_3x_5y_1y_4 - 3x_1^2x_4x_5y_1y_3 + \\
& 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 - 3x_1x_4y_1^2y_3y_5 - 3x_1x_5y_1^2y_3y_4 - \\
& x_3x_4y_1^3y_5 - x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) - b_{3,0,0,0,1,0,1,0,1,0}^r(x_1^3x_3x_4x_5 - \\
& x_1^3x_3y_4y_5 - x_1^3x_4y_3y_5 - x_1^3x_5y_3y_4 - 3x_1^2x_3x_4y_1y_5 - 3x_1^2x_3x_5y_1y_4 - \\
& 3x_1^2x_4x_5y_1y_3 + 3x_1^2y_1y_3y_4y_5 - 3x_1x_3x_4x_5y_1^2 + 3x_1x_3y_1^2y_4y_5 + 3x_1x_4y_1^2y_3y_5 + \\
& 3x_1x_5y_1^2y_3y_4 + x_3x_4y_1^3y_5 + x_3x_5y_1^3y_4 + x_4x_5y_1^3y_3 - y_1^3y_3y_4y_5) - \\
& b_{3,0,1,0,0,0,0,0,-2,0}^r(x_1^3x_2x_5^2 - x_1^3x_2y_5^2 + 2x_1^2x_5y_2y_5 + 6x_1^2x_2x_5y_1y_5 - 3x_1^2x_5^2y_1y_2 + \\
& 3x_1^2y_1y_2y_5^2 - 3x_1x_2x_5^2y_1^2 + 3x_1x_2y_1^2y_5^2 - 6x_1x_5y_1^2y_2y_5 - 2x_2x_5y_1^3y_5 + \\
& x_5^2y_1^3y_2 - y_1^3y_2y_5^2) - b_{3,0,1,0,0,0,2,0,0,0}^r(x_1^3x_2x_4^2 - x_1^3x_2y_4^2 - 2x_1^3x_4y_2y_4 - \\
& 6x_1^2x_2x_4y_1y_4 - 3x_1^2x_4^2y_1y_2 + 3x_1^2y_1y_2y_4^2 - 3x_1x_2x_4^2y_1^2 + 3x_1x_2y_1^2y_4^2 + \\
& 6x_1x_4y_1^2y_2y_4 + 2x_2x_4y_1^3y_4 + x_4^2y_1^3y_2 - y_1^3y_2y_4^2) - b_{3,0,1,0,2,0,0,0,0,0}^r(x_1^3x_2x_3^2 - \\
& x_1^3x_2y_3^2 - 2x_1^3x_3y_2y_3 - 6x_1^2x_2x_3y_1y_3 - 3x_1^2x_3^2y_1y_2 + 3x_1^2y_1y_2y_3^2 - \\
& 3x_1x_2x_3^2y_1^2 + 3x_1x_2y_1^2y_3^2 + 6x_1x_3y_1^2y_2y_3 + 2x_2x_3y_1^3y_3 + x_3^2y_1^3y_2 - y_1^3y_2y_3^2) - \\
& b_{3,1,-1,0,0,0,0,0,0,0}^r(x_1^2 + y_1^2)(x_1^3x_2 + 3x_1^2y_1y_2 - 3x_1x_2y_1^2 - y_1^3y_2) - b_{4,0,-2,0,0,0,0,0,0,0}^r(x_1^2x_2 - \\
& x_1^2y_2 + 2x_1x_2y_1 + 2x_1y_1y_2 - x_2y_1^2 + y_1^2y_2)(x_1^2x_2 + x_1^2y_2 - 2x_1x_2y_1 + 2x_1y_1y_2 - x_2y_1^2 - \\
& y_1^2y_2) - b_{4,0,0,0,0,0,0,0,-2,0}^r(x_1^2x_5 - x_1^2y_5 + 2x_1x_5y_1 + 2x_1y_1y_5 - x_5y_1^2 + y_1^2y_5)(x_1^2x_5 + \\
& x_1^2y_5 - 2x_1x_5y_1 + 2x_1y_1y_5 - x_5y_1^2 - y_1^2y_5) - b_{4,0,0,0,0,0,2,0,0,0}^r(x_1^2x_4 - x_1^2y_4 - 2x_1x_4y_1 - \\
& 2x_1y_1y_4 - x_4y_1^2 + y_1^2y_4)(x_1^2x_4 + x_1^2y_4 + 2x_1x_4y_1 - 2x_1y_1y_4 - x_4y_1^2 - y_1^2y_4) - \\
& b_{4,0,0,0,2,0,0,0,0,0}^r(x_1^2x_3 - x_1^2y_3 - 2x_1x_3y_1 - 2x_1y_1y_3 - x_3y_1^2 + y_1^2y_3)(x_1^2x_3 + x_1^2y_3 + \\
& 2x_1x_3y_1 - 2x_1y_1y_3 - x_3y_1^2 - y_1^2y_3)
\end{aligned}$$