

T matrix in GVB-BCCC formula derivation

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September 3, 2019

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$$\begin{aligned}\Phi_{(A_1,)} = \\ + A_1^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_2,)} = \\ + A_2^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_3,)} = \\ + A_3^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_1, B_1)} = \\ + A_1^+ \Phi_{(B_1,)} \\ + B_1^+ \Phi_{(A_1,)} \\ + A_1^+ B_1^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_1, B_2)} = \\ + A_1^+ \Phi_{(B_2,)} \\ + B_2^+ \Phi_{(A_1,)} \\ + A_1^+ B_2^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_1, B_3)} = \\ + A_1^+ \Phi_{(B_3,)} \\ + B_3^+ \Phi_{(A_1,)} \\ + A_1^+ B_3^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_2, B_1)} = \\ + A_2^+ \Phi_{(B_1,)} \\ + B_1^+ \Phi_{(A_2,)} \\ + A_2^+ B_1^+ \Phi_{()}\end{aligned}$$

$$\Phi_{(A_2, B_2)} =$$

$$+A_2^+ \Phi_{(B_2,)}$$

$$+B_2^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_2^+ \Phi_{()}$$

$$\Phi_{(A_2, B_3)} =$$

$$+A_2^+ \Phi_{(B_3,)}$$

$$+B_3^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_3^+ \Phi_{()}$$

$$\Phi_{(A_3, B_1)} =$$

$$+A_3^+ \Phi_{(B_1,)}$$

$$+B_1^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_1^+ \Phi_{()}$$

$$\Phi_{(A_3, B_2)} =$$

$$+A_3^+ \Phi_{(B_2,)}$$

$$+B_2^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_2^+ \Phi_{()}$$

$$\Phi_{(A_3, B_3)} =$$

$$+A_3^+ \Phi_{(B_3,)}$$

$$+B_3^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_3^+ \Phi_{()}$$

$$\Phi_{(A_4, B_5)} =$$

$$+A_4^+ B_5^+ \Phi_{()}$$

$$\Phi_{(A_5, B_4)} =$$

$$+A_5^+B_4^+\Phi_{()}$$

$$\Phi_{(A_6,B_{15})} =$$

$$+A_6^+B_{15}^+\Phi_{()}$$

$$\Phi_{(A_7,B_{13})} =$$

$$+A_7^+B_{13}^+\Phi_{()}$$

$$\Phi_{(A_7,B_{14})} =$$

$$+A_7^+B_{14}^+\Phi_{()}$$

$$\Phi_{(A_8,B_{13})} =$$

$$+A_8^+B_{13}^+\Phi_{()}$$

$$\Phi_{(A_8,B_{14})} =$$

$$+A_8^+B_{14}^+\Phi_{()}$$

$$\Phi_{(A_9,B_{11})} =$$

$$+A_9^+B_{11}^+\Phi_{()}$$

$$\Phi_{(A_9,B_{12})} =$$

$$+A_9^+B_{12}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11})} =$$

$$+A_{10}^+B_{11}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12})} =$$

$$+A_{10}^+B_{12}^+\Phi_{()}$$

$$\begin{aligned}\Phi_{(A_{11},B_9)} = \\ +A_{11}^+B_9^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{11},B_{10})} = \\ +A_{11}^+B_{10}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{12},B_9)} = \\ +A_{12}^+B_9^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{12},B_{10})} = \\ +A_{12}^+B_{10}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{13},B_7)} = \\ +A_{13}^+B_7^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{13},B_8)} = \\ +A_{13}^+B_8^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14},B_7)} = \\ +A_{14}^+B_7^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14},B_8)} = \\ +A_{14}^+B_8^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_6)} = \\ +A_{15}^+B_6^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_1,B_1,C_1)} = \\ +A_1^+\Phi_{(B_1,C_1)}\end{aligned}$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ B_1^+ \Phi_{(C_1,)} \\
& +A_1^+ C_1^+ \Phi_{(B_1,)} \\
& +B_1^+ C_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_2)} = \\
& +A_1^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ \Phi_{(A_1, C_2)} \\
& +C_2^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ B_1^+ \Phi_{(C_2,)} \\
& +A_1^+ C_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_3)} = \\
& +A_1^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ B_1^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_1)} = \\
& +A_1^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ \Phi_{(A_1, B_2)}
\end{aligned}$$

$$+A_1^+B_2^+\Phi_{(C_1,)}$$

$$+A_1^+C_1^+\Phi_{(B_2,)}$$

$$+B_2^+C_1^+\Phi_{(A_1,)}$$

$$+A_1^+B_2^+C_1^+\Phi_{()}$$

$$\Phi_{(A_1,B_2,C_2)} =$$

$$+A_1^+\Phi_{(B_2,C_2)}$$

$$+B_2^+\Phi_{(A_1,C_2)}$$

$$+C_2^+\Phi_{(A_1,B_2)}$$

$$+A_1^+B_2^+\Phi_{(C_2,)}$$

$$+A_1^+C_2^+\Phi_{(B_2,)}$$

$$+B_2^+C_2^+\Phi_{(A_1,)}$$

$$+A_1^+B_2^+C_2^+\Phi_{()}$$

$$\Phi_{(A_1,B_2,C_3)} =$$

$$+A_1^+\Phi_{(B_2,C_3)}$$

$$+B_2^+\Phi_{(A_1,C_3)}$$

$$+C_3^+\Phi_{(A_1,B_2)}$$

$$+A_1^+B_2^+\Phi_{(C_3,)}$$

$$+A_1^+C_3^+\Phi_{(B_2,)}$$

$$+B_2^+C_3^+\Phi_{(A_1,)}$$

$$+A_1^+B_2^+C_3^+\Phi_{()}$$

$$\Phi_{(A_1,B_3,C_1)} =$$

$$+A_1^+\Phi_{(B_3,C_1)}$$

$$+B_3^+\Phi_{(A_1,C_1)}$$

$$+C_1^+\Phi_{(A_1,B_3)}$$

$$+A_1^+B_3^+\Phi_{(C_1,)}$$

$$+A_1^+C_1^+\Phi_{(B_3,)}$$

$$\begin{aligned}
& +B_3^+ C_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_3, C_2)} = \\
& +A_1^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ \Phi_{(A_1, C_2)} \\
& +C_2^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ B_3^+ \Phi_{(C_2,)} \\
& +A_1^+ C_2^+ \Phi_{(B_3,)} \\
& +B_3^+ C_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_3, C_3)} = \\
& +A_1^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ B_3^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_4, C_5)} = \\
& +A_1^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_1,)} \\
& +A_1^+ B_4^+ C_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_5, C_4)} = \\
& +A_1^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_1,)}
\end{aligned}$$

$$+A_1^+B_5^+C_4^+\Phi_{()}$$

$$\Phi_{(A_1,B_6,C_{15})} =$$

$$+A_1^+\Phi_{(B_6,C_{15})}$$

$$+B_6^+C_{15}^+\Phi_{(A_1,)}$$

$$+A_1^+B_6^+C_{15}^+\Phi_{()}$$

$$\Phi_{(A_1,B_7,C_{13})} =$$

$$+A_1^+\Phi_{(B_7,C_{13})}$$

$$+B_7^+C_{13}^+\Phi_{(A_1,)}$$

$$+A_1^+B_7^+C_{13}^+\Phi_{()}$$

$$\Phi_{(A_1,B_7,C_{14})} =$$

$$+A_1^+\Phi_{(B_7,C_{14})}$$

$$+B_7^+C_{14}^+\Phi_{(A_1,)}$$

$$+A_1^+B_7^+C_{14}^+\Phi_{()}$$

$$\Phi_{(A_1,B_8,C_{13})} =$$

$$+A_1^+\Phi_{(B_8,C_{13})}$$

$$+B_8^+C_{13}^+\Phi_{(A_1,)}$$

$$+A_1^+B_8^+C_{13}^+\Phi_{()}$$

$$\Phi_{(A_1,B_8,C_{14})} =$$

$$+A_1^+\Phi_{(B_8,C_{14})}$$

$$+B_8^+C_{14}^+\Phi_{(A_1,)}$$

$$+A_1^+B_8^+C_{14}^+\Phi_{()}$$

$$\Phi_{(A_1,B_9,C_{11})} =$$

$$+A_1^+\Phi_{(B_9,C_{11})}$$

$$\begin{aligned}
& +B_9^+C_{11}^+\Phi_{(A_1,)} \\
& +A_1^+B_9^+C_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_9,C_{12})} = \\
& +A_1^+\Phi_{(B_9,C_{12})} \\
& +B_9^+C_{12}^+\Phi_{(A_1,)} \\
& +A_1^+B_9^+C_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{10},C_{11})} = \\
& +A_1^+\Phi_{(B_{10},C_{11})} \\
& +B_{10}^+C_{11}^+\Phi_{(A_1,)} \\
& +A_1^+B_{10}^+C_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{10},C_{12})} = \\
& +A_1^+\Phi_{(B_{10},C_{12})} \\
& +B_{10}^+C_{12}^+\Phi_{(A_1,)} \\
& +A_1^+B_{10}^+C_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{11},C_9)} = \\
& +A_1^+\Phi_{(B_{11},C_9)} \\
& +B_{11}^+C_9^+\Phi_{(A_1,)} \\
& +A_1^+B_{11}^+C_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{11},C_{10})} = \\
& +A_1^+\Phi_{(B_{11},C_{10})} \\
& +B_{11}^+C_{10}^+\Phi_{(A_1,)} \\
& +A_1^+B_{11}^+C_{10}^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1,B_{12},C_9)} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_{12}, C_9)} \\
& +B_{12}^+ C_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{12}^+ C_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_{12}, C_{10})} = \\
& +A_1^+ \Phi_{(B_{12}, C_{10})} \\
& +B_{12}^+ C_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{12}^+ C_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_{13}, C_7)} = \\
& +A_1^+ \Phi_{(B_{13}, C_7)} \\
& +B_{13}^+ C_7^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{13}^+ C_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_{13}, C_8)} = \\
& +A_1^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{13}^+ C_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_{14}, C_7)} = \\
& +A_1^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{14}^+ C_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_{14}, C_8)} = \\
& +A_1^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{14}^+ C_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{15}, C_6)} = \\
&+A_1^+ \Phi_{(B_{15}, C_6)} \\
&+B_{15}^+ C_6^+ \Phi_{(A_1,)} \\
&+A_1^+ B_{15}^+ C_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_1, C_1)} = \\
&+A_2^+ \Phi_{(B_1, C_1)} \\
&+B_1^+ \Phi_{(A_2, C_1)} \\
&+C_1^+ \Phi_{(A_2, B_1)} \\
&+A_2^+ B_1^+ \Phi_{(C_1,)} \\
&+A_2^+ C_1^+ \Phi_{(B_1,)} \\
&+B_1^+ C_1^+ \Phi_{(A_2,)} \\
&+A_2^+ B_1^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_1, C_2)} = \\
&+A_2^+ \Phi_{(B_1, C_2)} \\
&+B_1^+ \Phi_{(A_2, C_2)} \\
&+C_2^+ \Phi_{(A_2, B_1)} \\
&+A_2^+ B_1^+ \Phi_{(C_2,)} \\
&+A_2^+ C_2^+ \Phi_{(B_1,)} \\
&+B_1^+ C_2^+ \Phi_{(A_2,)} \\
&+A_2^+ B_1^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_1, C_3)} = \\
&+A_2^+ \Phi_{(B_1, C_3)} \\
&+B_1^+ \Phi_{(A_2, C_3)} \\
&+C_3^+ \Phi_{(A_2, B_1)} \\
&+A_2^+ B_1^+ \Phi_{(C_3,)} \\
&+A_2^+ C_3^+ \Phi_{(B_1,)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+C_3^+\Phi_{(A_2,)} \\
& +A_2^+B_1^+C_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_2,C_1)} = \\
& +A_2^+\Phi_{(B_2,C_1)} \\
& +B_2^+\Phi_{(A_2,C_1)} \\
& +C_1^+\Phi_{(A_2,B_2)} \\
& +A_2^+B_2^+\Phi_{(C_1,)} \\
& +A_2^+C_1^+\Phi_{(B_2,)} \\
& +B_2^+C_1^+\Phi_{(A_2,)} \\
& +A_2^+B_2^+C_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_2,C_2)} = \\
& +A_2^+\Phi_{(B_2,C_2)} \\
& +B_2^+\Phi_{(A_2,C_2)} \\
& +C_2^+\Phi_{(A_2,B_2)} \\
& +A_2^+B_2^+\Phi_{(C_2,)} \\
& +A_2^+C_2^+\Phi_{(B_2,)} \\
& +B_2^+C_2^+\Phi_{(A_2,)} \\
& +A_2^+B_2^+C_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_2,C_3)} = \\
& +A_2^+\Phi_{(B_2,C_3)} \\
& +B_2^+\Phi_{(A_2,C_3)} \\
& +C_3^+\Phi_{(A_2,B_2)} \\
& +A_2^+B_2^+\Phi_{(C_3,)} \\
& +A_2^+C_3^+\Phi_{(B_2,)} \\
& +B_2^+C_3^+\Phi_{(A_2,)} \\
& +A_2^+B_2^+C_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_3, C_1)} = & \\
& + A_2^+ \Phi_{(B_3, C_1)} \\
& + B_3^+ \Phi_{(A_2, C_1)} \\
& + C_1^+ \Phi_{(A_2, B_3)} \\
& + A_2^+ B_3^+ \Phi_{(C_1,)} \\
& + A_2^+ C_1^+ \Phi_{(B_3,)} \\
& + B_3^+ C_1^+ \Phi_{(A_2,)} \\
& + A_2^+ B_3^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_3, C_2)} = & \\
& + A_2^+ \Phi_{(B_3, C_2)} \\
& + B_3^+ \Phi_{(A_2, C_2)} \\
& + C_2^+ \Phi_{(A_2, B_3)} \\
& + A_2^+ B_3^+ \Phi_{(C_2,)} \\
& + A_2^+ C_2^+ \Phi_{(B_3,)} \\
& + B_3^+ C_2^+ \Phi_{(A_2,)} \\
& + A_2^+ B_3^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_3, C_3)} = & \\
& + A_2^+ \Phi_{(B_3, C_3)} \\
& + B_3^+ \Phi_{(A_2, C_3)} \\
& + C_3^+ \Phi_{(A_2, B_3)} \\
& + A_2^+ B_3^+ \Phi_{(C_3,)} \\
& + A_2^+ C_3^+ \Phi_{(B_3,)} \\
& + B_3^+ C_3^+ \Phi_{(A_2,)} \\
& + A_2^+ B_3^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_2, B_4, C_5)} =$$

$$\begin{aligned}
& +A_2^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_2,)} \\
& +A_2^+ B_4^+ C_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_5, C_4)} = \\
& +A_2^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_2,)} \\
& +A_2^+ B_5^+ C_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_6, C_{15})} = \\
& +A_2^+ \Phi_{(B_6, C_{15})} \\
& +B_6^+ C_{15}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_6^+ C_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_{13})} = \\
& +A_2^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_{14})} = \\
& +A_2^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_8, C_{13})} = \\
& +A_2^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_8^+ C_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_{14})} = \\
&+ A_2^+ \Phi_{(B_8, C_{14})} \\
&+ B_8^+ C_{14}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_9, C_{11})} = \\
&+ A_2^+ \Phi_{(B_9, C_{11})} \\
&+ B_9^+ C_{11}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_9^+ C_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_9, C_{12})} = \\
&+ A_2^+ \Phi_{(B_9, C_{12})} \\
&+ B_9^+ C_{12}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_9^+ C_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_{11})} = \\
&+ A_2^+ \Phi_{(B_{10}, C_{11})} \\
&+ B_{10}^+ C_{11}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{10}^+ C_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_{12})} = \\
&+ A_2^+ \Phi_{(B_{10}, C_{12})} \\
&+ B_{10}^+ C_{12}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{10}^+ C_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{11}, C_9)} = \\
&+ A_2^+ \Phi_{(B_{11}, C_9)} \\
&+ B_{11}^+ C_9^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{11}^+ C_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{11}, C_{10})} = \\
&+A_2^+ \Phi_{(B_{11}, C_{10})} \\
&+B_{11}^+ C_{10}^+ \Phi_{(A_2,)} \\
&+A_2^+ B_{11}^+ C_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{12}, C_9)} = \\
&+A_2^+ \Phi_{(B_{12}, C_9)} \\
&+B_{12}^+ C_9^+ \Phi_{(A_2,)} \\
&+A_2^+ B_{12}^+ C_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{12}, C_{10})} = \\
&+A_2^+ \Phi_{(B_{12}, C_{10})} \\
&+B_{12}^+ C_{10}^+ \Phi_{(A_2,)} \\
&+A_2^+ B_{12}^+ C_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{13}, C_7)} = \\
&+A_2^+ \Phi_{(B_{13}, C_7)} \\
&+B_{13}^+ C_7^+ \Phi_{(A_2,)} \\
&+A_2^+ B_{13}^+ C_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{13}, C_8)} = \\
&+A_2^+ \Phi_{(B_{13}, C_8)} \\
&+B_{13}^+ C_8^+ \Phi_{(A_2,)} \\
&+A_2^+ B_{13}^+ C_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{14}, C_7)} = \\
&+A_2^+ \Phi_{(B_{14}, C_7)} \\
&+B_{14}^+ C_7^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_{14}^+ C_7^+ \Phi_{()} =$$

$$\Phi_{(A_2, B_{14}, C_8)} =$$

$$+A_2^+ \Phi_{(B_{14}, C_8)}$$

$$+B_{14}^+ C_8^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_{14}^+ C_8^+ \Phi_{()} =$$

$$\Phi_{(A_2, B_{15}, C_6)} =$$

$$+A_2^+ \Phi_{(B_{15}, C_6)}$$

$$+B_{15}^+ C_6^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_{15}^+ C_6^+ \Phi_{()} =$$

$$\Phi_{(A_3, B_1, C_1)} =$$

$$+A_3^+ \Phi_{(B_1, C_1)}$$

$$+B_1^+ \Phi_{(A_3, C_1)}$$

$$+C_1^+ \Phi_{(A_3, B_1)}$$

$$+A_3^+ B_1^+ \Phi_{(C_1,)}$$

$$+A_3^+ C_1^+ \Phi_{(B_1,)}$$

$$+B_1^+ C_1^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_1^+ C_1^+ \Phi_{()} =$$

$$\Phi_{(A_3, B_1, C_2)} =$$

$$+A_3^+ \Phi_{(B_1, C_2)}$$

$$+B_1^+ \Phi_{(A_3, C_2)}$$

$$+C_2^+ \Phi_{(A_3, B_1)}$$

$$+A_3^+ B_1^+ \Phi_{(C_2,)}$$

$$+A_3^+ C_2^+ \Phi_{(B_1,)}$$

$$+B_1^+ C_2^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_1^+ C_2^+ \Phi_{()} =$$

$$\begin{aligned}
\Phi_{(A_3, B_1, C_3)} = & \\
& + A_3^+ \Phi_{(B_1, C_3)} \\
& + B_1^+ \Phi_{(A_3, C_3)} \\
& + C_3^+ \Phi_{(A_3, B_1)} \\
& + A_3^+ B_1^+ \Phi_{(C_3,)} \\
& + A_3^+ C_3^+ \Phi_{(B_1,)} \\
& + B_1^+ C_3^+ \Phi_{(A_3,)} \\
& + A_3^+ B_1^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_2, C_1)} = & \\
& + A_3^+ \Phi_{(B_2, C_1)} \\
& + B_2^+ \Phi_{(A_3, C_1)} \\
& + C_1^+ \Phi_{(A_3, B_2)} \\
& + A_3^+ B_2^+ \Phi_{(C_1,)} \\
& + A_3^+ C_1^+ \Phi_{(B_2,)} \\
& + B_2^+ C_1^+ \Phi_{(A_3,)} \\
& + A_3^+ B_2^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_2, C_2)} = & \\
& + A_3^+ \Phi_{(B_2, C_2)} \\
& + B_2^+ \Phi_{(A_3, C_2)} \\
& + C_2^+ \Phi_{(A_3, B_2)} \\
& + A_3^+ B_2^+ \Phi_{(C_2,)} \\
& + A_3^+ C_2^+ \Phi_{(B_2,)} \\
& + B_2^+ C_2^+ \Phi_{(A_3,)} \\
& + A_3^+ B_2^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_2, C_3)} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ B_2^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_1)} = \\
& +A_3^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ \Phi_{(B_3,)} \\
& +B_3^+ C_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_2)} = \\
& +A_3^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ \Phi_{(A_3, C_2)} \\
& +C_2^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ \Phi_{(C_2,)} \\
& +A_3^+ C_2^+ \Phi_{(B_3,)} \\
& +B_3^+ C_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_3)} = \\
& +A_3^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ \Phi_{(A_3, C_3)}
\end{aligned}$$

$$\begin{aligned}
& +C_3^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_4, C_5)} = \\
& +A_3^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_3,)} \\
& +A_3^+ B_4^+ C_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_5, C_4)} = \\
& +A_3^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_3,)} \\
& +A_3^+ B_5^+ C_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_6, C_{15})} = \\
& +A_3^+ \Phi_{(B_6, C_{15})} \\
& +B_6^+ C_{15}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_6^+ C_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_{13})} = \\
& +A_3^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_{14})} = \\
& +A_3^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_7^+ C_{14}^+ \Phi_{()}$$

$$\Phi_{(A_3, B_8, C_{13})} =$$

$$+A_3^+ \Phi_{(B_8, C_{13})}$$

$$+B_8^+ C_{13}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_8^+ C_{13}^+ \Phi_{()}$$

$$\Phi_{(A_3, B_8, C_{14})} =$$

$$+A_3^+ \Phi_{(B_8, C_{14})}$$

$$+B_8^+ C_{14}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_8^+ C_{14}^+ \Phi_{()}$$

$$\Phi_{(A_3, B_9, C_{11})} =$$

$$+A_3^+ \Phi_{(B_9, C_{11})}$$

$$+B_9^+ C_{11}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_9^+ C_{11}^+ \Phi_{()}$$

$$\Phi_{(A_3, B_9, C_{12})} =$$

$$+A_3^+ \Phi_{(B_9, C_{12})}$$

$$+B_9^+ C_{12}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_9^+ C_{12}^+ \Phi_{()}$$

$$\Phi_{(A_3, B_{10}, C_{11})} =$$

$$+A_3^+ \Phi_{(B_{10}, C_{11})}$$

$$+B_{10}^+ C_{11}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{10}^+ C_{11}^+ \Phi_{()}$$

$$\Phi_{(A_3, B_{10}, C_{12})} =$$

$$+A_3^+ \Phi_{(B_{10}, C_{12})}$$

$$\begin{aligned}
& +B_{10}^+C_{12}^+\Phi_{(A_3,)} \\
& +A_3^+B_{10}^+C_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{11},C_9)} = \\
& +A_3^+\Phi_{(B_{11},C_9)} \\
& +B_{11}^+C_9^+\Phi_{(A_3,)} \\
& +A_3^+B_{11}^+C_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{11},C_{10})} = \\
& +A_3^+\Phi_{(B_{11},C_{10})} \\
& +B_{11}^+C_{10}^+\Phi_{(A_3,)} \\
& +A_3^+B_{11}^+C_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{12},C_9)} = \\
& +A_3^+\Phi_{(B_{12},C_9)} \\
& +B_{12}^+C_9^+\Phi_{(A_3,)} \\
& +A_3^+B_{12}^+C_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{12},C_{10})} = \\
& +A_3^+\Phi_{(B_{12},C_{10})} \\
& +B_{12}^+C_{10}^+\Phi_{(A_3,)} \\
& +A_3^+B_{12}^+C_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{13},C_7)} = \\
& +A_3^+\Phi_{(B_{13},C_7)} \\
& +B_{13}^+C_7^+\Phi_{(A_3,)} \\
& +A_3^+B_{13}^+C_7^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3,B_{13},C_8)} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{13}^+ C_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_7)} = \\
& +A_3^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_8)} = \\
& +A_3^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{15}, C_6)} = \\
& +A_3^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{15}^+ C_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_1, C_5)} = \\
& +B_1^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_1,)} \\
& +A_4^+ B_1^+ C_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_2, C_5)} = \\
& +B_2^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_2,)} \\
& +A_4^+ B_2^+ C_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_5)} = \\
&+B_3^+ \Phi_{(A_4, C_5)} \\
&+A_4^+ C_5^+ \Phi_{(B_3,)} \\
&+A_4^+ B_3^+ C_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_1)} = \\
&+C_1^+ \Phi_{(A_4, B_5)} \\
&+A_4^+ B_5^+ \Phi_{(C_1,)} \\
&+A_4^+ B_5^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_2)} = \\
&+C_2^+ \Phi_{(A_4, B_5)} \\
&+A_4^+ B_5^+ \Phi_{(C_2,)} \\
&+A_4^+ B_5^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_3)} = \\
&+C_3^+ \Phi_{(A_4, B_5)} \\
&+A_4^+ B_5^+ \Phi_{(C_3,)} \\
&+A_4^+ B_5^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_9, C_{13})} = \\
&+A_4^+ B_9^+ C_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_9, C_{14})} = \\
&+A_4^+ B_9^+ C_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{10}, C_{13})} = \\
&+A_4^+ B_{10}^+ C_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{10}, C_{14})} = \\ + A_4^+ B_{10}^+ C_{14}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{13}, C_9)} = \\ + A_4^+ B_{13}^+ C_9^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{13}, C_{10})} = \\ + A_4^+ B_{13}^+ C_{10}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{14}, C_9)} = \\ + A_4^+ B_{14}^+ C_9^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{14}, C_{10})} = \\ + A_4^+ B_{14}^+ C_{10}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_1, C_4)} = \\ + B_1^+ \Phi_{(A_5, C_4)} \\ + A_5^+ C_4^+ \Phi_{(B_1,)} \\ + A_5^+ B_1^+ C_4^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_2, C_4)} = \\ + B_2^+ \Phi_{(A_5, C_4)} \\ + A_5^+ C_4^+ \Phi_{(B_2,)} \\ + A_5^+ B_2^+ C_4^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_3, C_4)} = \\ + B_3^+ \Phi_{(A_5, C_4)} \\ + A_5^+ C_4^+ \Phi_{(B_3,)} \\ + A_5^+ B_3^+ C_4^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_4, C_1)} = & \\
& + C_1^+ \Phi_{(A_5, B_4)} \\
& + A_5^+ B_4^+ \Phi_{(C_1,)} \\
& + A_5^+ B_4^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_4, C_2)} = & \\
& + C_2^+ \Phi_{(A_5, B_4)} \\
& + A_5^+ B_4^+ \Phi_{(C_2,)} \\
& + A_5^+ B_4^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_4, C_3)} = & \\
& + C_3^+ \Phi_{(A_5, B_4)} \\
& + A_5^+ B_4^+ \Phi_{(C_3,)} \\
& + A_5^+ B_4^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_7, C_{11})} = & \\
& + A_5^+ B_7^+ C_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_7, C_{12})} = & \\
& + A_5^+ B_7^+ C_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_8, C_{11})} = & \\
& + A_5^+ B_8^+ C_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_8, C_{12})} = & \\
& + A_5^+ B_8^+ C_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_{11}, C_7)} = &
\end{aligned}$$

$$+A_5^+ B_{11}^+ C_7^+ \Phi_{()} =$$

$$\Phi_{(A_5, B_{11}, C_8)} =$$

$$+A_5^+ B_{11}^+ C_8^+ \Phi_{()} =$$

$$\Phi_{(A_5, B_{12}, C_7)} =$$

$$+A_5^+ B_{12}^+ C_7^+ \Phi_{()} =$$

$$\Phi_{(A_5, B_{12}, C_8)} =$$

$$+A_5^+ B_{12}^+ C_8^+ \Phi_{()} =$$

$$\Phi_{(A_6, B_1, C_{15})} =$$

$$+B_1^+ \Phi_{(A_6, C_{15})} =$$

$$+A_6^+ C_{15}^+ \Phi_{(B_1,)} =$$

$$+A_6^+ B_1^+ C_{15}^+ \Phi_{()} =$$

$$\Phi_{(A_6, B_2, C_{15})} =$$

$$+B_2^+ \Phi_{(A_6, C_{15})} =$$

$$+A_6^+ C_{15}^+ \Phi_{(B_2,)} =$$

$$+A_6^+ B_2^+ C_{15}^+ \Phi_{()} =$$

$$\Phi_{(A_6, B_3, C_{15})} =$$

$$+B_3^+ \Phi_{(A_6, C_{15})} =$$

$$+A_6^+ C_{15}^+ \Phi_{(B_3,)} =$$

$$+A_6^+ B_3^+ C_{15}^+ \Phi_{()} =$$

$$\Phi_{(A_6, B_{11}, C_{13})} =$$

$$+A_6^+ B_{11}^+ C_{13}^+ \Phi_{()} =$$

$$\begin{aligned}\Phi_{(A_6, B_{11}, C_{14})} = \\ + A_6^+ B_{11}^+ C_{14}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{12}, C_{13})} = \\ + A_6^+ B_{12}^+ C_{13}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{12}, C_{14})} = \\ + A_6^+ B_{12}^+ C_{14}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{13}, C_{11})} = \\ + A_6^+ B_{13}^+ C_{11}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{13}, C_{12})} = \\ + A_6^+ B_{13}^+ C_{12}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{14}, C_{11})} = \\ + A_6^+ B_{14}^+ C_{11}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{14}, C_{12})} = \\ + A_6^+ B_{14}^+ C_{12}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{15}, C_1)} = \\ + C_1^+ \Phi_{(A_6, B_{15})} \\ + A_6^+ B_{15}^+ \Phi_{(C_1,)} \\ + A_6^+ B_{15}^+ C_1^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{15}, C_2)} = \\ + C_2^+ \Phi_{(A_6, B_{15})} \\ + A_6^+ B_{15}^+ \Phi_{(C_2,)}\end{aligned}$$

$$+A_6^+B_{15}^+C_2^+\Phi_{()}$$

$$\Phi_{(A_6,B_{15},C_3)} =$$

$$+C_3^+\Phi_{(A_6,B_{15})}$$

$$+A_6^+B_{15}^+\Phi_{(C_3,)}$$

$$+A_6^+B_{15}^+C_3^+\Phi_{()}$$

$$\Phi_{(A_7,B_1,C_{13})} =$$

$$+B_1^+\Phi_{(A_7,C_{13})}$$

$$+A_7^+C_{13}^+\Phi_{(B_1,)}$$

$$+A_7^+B_1^+C_{13}^+\Phi_{()}$$

$$\Phi_{(A_7,B_1,C_{14})} =$$

$$+B_1^+\Phi_{(A_7,C_{14})}$$

$$+A_7^+C_{14}^+\Phi_{(B_1,)}$$

$$+A_7^+B_1^+C_{14}^+\Phi_{()}$$

$$\Phi_{(A_7,B_2,C_{13})} =$$

$$+B_2^+\Phi_{(A_7,C_{13})}$$

$$+A_7^+C_{13}^+\Phi_{(B_2,)}$$

$$+A_7^+B_2^+C_{13}^+\Phi_{()}$$

$$\Phi_{(A_7,B_2,C_{14})} =$$

$$+B_2^+\Phi_{(A_7,C_{14})}$$

$$+A_7^+C_{14}^+\Phi_{(B_2,)}$$

$$+A_7^+B_2^+C_{14}^+\Phi_{()}$$

$$\Phi_{(A_7,B_3,C_{13})} =$$

$$+B_3^+\Phi_{(A_7,C_{13})}$$

$$+A_7^+ C_{13}^+ \Phi_{(B_3,)}$$

$$+A_7^+ B_3^+ C_{13}^+ \Phi_{()}$$

$$\Phi_{(A_7, B_3, C_{14})} =$$

$$+B_3^+ \Phi_{(A_7, C_{14})}$$

$$+A_7^+ C_{14}^+ \Phi_{(B_3,)}$$

$$+A_7^+ B_3^+ C_{14}^+ \Phi_{()}$$

$$\Phi_{(A_7, B_5, C_{11})} =$$

$$+A_7^+ B_5^+ C_{11}^+ \Phi_{()}$$

$$\Phi_{(A_7, B_5, C_{12})} =$$

$$+A_7^+ B_5^+ C_{12}^+ \Phi_{()}$$

$$\Phi_{(A_7, B_9, C_{15})} =$$

$$+A_7^+ B_9^+ C_{15}^+ \Phi_{()}$$

$$\Phi_{(A_7, B_{10}, C_{15})} =$$

$$+A_7^+ B_{10}^+ C_{15}^+ \Phi_{()}$$

$$\Phi_{(A_7, B_{11}, C_5)} =$$

$$+A_7^+ B_{11}^+ C_5^+ \Phi_{()}$$

$$\Phi_{(A_7, B_{12}, C_5)} =$$

$$+A_7^+ B_{12}^+ C_5^+ \Phi_{()}$$

$$\Phi_{(A_7, B_{13}, C_1)} =$$

$$+C_1^+ \Phi_{(A_7, B_{13})}$$

$$+A_7^+ B_{13}^+ \Phi_{(C_1,)}$$

$$+A_7^+ B_{13}^+ C_1^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{13}, C_2)} =$$

$$+C_2^+ \Phi_{(A_7, B_{13})}$$

$$+A_7^+ B_{13}^+ \Phi_{(C_2,)}$$

$$+A_7^+ B_{13}^+ C_2^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{13}, C_3)} =$$

$$+C_3^+ \Phi_{(A_7, B_{13})}$$

$$+A_7^+ B_{13}^+ \Phi_{(C_3,)}$$

$$+A_7^+ B_{13}^+ C_3^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{14}, C_1)} =$$

$$+C_1^+ \Phi_{(A_7, B_{14})}$$

$$+A_7^+ B_{14}^+ \Phi_{(C_1,)}$$

$$+A_7^+ B_{14}^+ C_1^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{14}, C_2)} =$$

$$+C_2^+ \Phi_{(A_7, B_{14})}$$

$$+A_7^+ B_{14}^+ \Phi_{(C_2,)}$$

$$+A_7^+ B_{14}^+ C_2^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{14}, C_3)} =$$

$$+C_3^+ \Phi_{(A_7, B_{14})}$$

$$+A_7^+ B_{14}^+ \Phi_{(C_3,)}$$

$$+A_7^+ B_{14}^+ C_3^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{15}, C_9)} =$$

$$+A_7^+ B_{15}^+ C_9^+ \Phi_{()} \\$$

$$\begin{aligned}\Phi_{(A_7, B_{15}, C_{10})} = \\ + A_7^+ B_{15}^+ C_{10}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_1, C_{13})} = \\ + B_1^+ \Phi_{(A_8, C_{13})} \\ + A_8^+ C_{13}^+ \Phi_{(B_1,)} \\ + A_8^+ B_1^+ C_{13}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_1, C_{14})} = \\ + B_1^+ \Phi_{(A_8, C_{14})} \\ + A_8^+ C_{14}^+ \Phi_{(B_1,)} \\ + A_8^+ B_1^+ C_{14}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_2, C_{13})} = \\ + B_2^+ \Phi_{(A_8, C_{13})} \\ + A_8^+ C_{13}^+ \Phi_{(B_2,)} \\ + A_8^+ B_2^+ C_{13}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_2, C_{14})} = \\ + B_2^+ \Phi_{(A_8, C_{14})} \\ + A_8^+ C_{14}^+ \Phi_{(B_2,)} \\ + A_8^+ B_2^+ C_{14}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_3, C_{13})} = \\ + B_3^+ \Phi_{(A_8, C_{13})} \\ + A_8^+ C_{13}^+ \Phi_{(B_3,)} \\ + A_8^+ B_3^+ C_{13}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_3, C_{14})} = & \\
& + B_3^+ \Phi_{(A_8, C_{14})} \\
& + A_8^+ C_{14}^+ \Phi_{(B_3,)} \\
& + A_8^+ B_3^+ C_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_5, C_{11})} = & \\
& + A_8^+ B_5^+ C_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_5, C_{12})} = & \\
& + A_8^+ B_5^+ C_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_9, C_{15})} = & \\
& + A_8^+ B_9^+ C_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{10}, C_{15})} = & \\
& + A_8^+ B_{10}^+ C_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{11}, C_5)} = & \\
& + A_8^+ B_{11}^+ C_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{12}, C_5)} = & \\
& + A_8^+ B_{12}^+ C_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{13}, C_1)} = & \\
& + C_1^+ \Phi_{(A_8, B_{13})} \\
& + A_8^+ B_{13}^+ \Phi_{(C_1,)} \\
& + A_8^+ B_{13}^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_8, B_{13}, C_2)} =$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ \Phi_{(C_2,)} \\
& +A_8^+ B_{13}^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_3)} = \\
& +C_3^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ \Phi_{(C_3,)} \\
& +A_8^+ B_{13}^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{14}, C_1)} = \\
& +C_1^+ \Phi_{(A_8, B_{14})} \\
& +A_8^+ B_{14}^+ \Phi_{(C_1,)} \\
& +A_8^+ B_{14}^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{14}, C_2)} = \\
& +C_2^+ \Phi_{(A_8, B_{14})} \\
& +A_8^+ B_{14}^+ \Phi_{(C_2,)} \\
& +A_8^+ B_{14}^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{14}, C_3)} = \\
& +C_3^+ \Phi_{(A_8, B_{14})} \\
& +A_8^+ B_{14}^+ \Phi_{(C_3,)} \\
& +A_8^+ B_{14}^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{15}, C_9)} = \\
& +A_8^+ B_{15}^+ C_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{15}, C_{10})} = \\
& +A_8^+ B_{15}^+ C_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_1, C_{11})} = \\
&+ B_1^+ \Phi_{(A_9, C_{11})} \\
&+ A_9^+ C_{11}^+ \Phi_{(B_1,)} \\
&+ A_9^+ B_1^+ C_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_1, C_{12})} = \\
&+ B_1^+ \Phi_{(A_9, C_{12})} \\
&+ A_9^+ C_{12}^+ \Phi_{(B_1,)} \\
&+ A_9^+ B_1^+ C_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_2, C_{11})} = \\
&+ B_2^+ \Phi_{(A_9, C_{11})} \\
&+ A_9^+ C_{11}^+ \Phi_{(B_2,)} \\
&+ A_9^+ B_2^+ C_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_2, C_{12})} = \\
&+ B_2^+ \Phi_{(A_9, C_{12})} \\
&+ A_9^+ C_{12}^+ \Phi_{(B_2,)} \\
&+ A_9^+ B_2^+ C_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_3, C_{11})} = \\
&+ B_3^+ \Phi_{(A_9, C_{11})} \\
&+ A_9^+ C_{11}^+ \Phi_{(B_3,)} \\
&+ A_9^+ B_3^+ C_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_3, C_{12})} = \\
&+ B_3^+ \Phi_{(A_9, C_{12})} \\
&+ A_9^+ C_{12}^+ \Phi_{(B_3,)}
\end{aligned}$$

$$+A_9^+ B_3^+ C_{12}^+ \Phi_{()} =$$

$$\Phi_{(A_9, B_4, C_{13})} =$$

$$+A_9^+ B_4^+ C_{13}^+ \Phi_{()} =$$

$$\Phi_{(A_9, B_4, C_{14})} =$$

$$+A_9^+ B_4^+ C_{14}^+ \Phi_{()} =$$

$$\Phi_{(A_9, B_7, C_{15})} =$$

$$+A_9^+ B_7^+ C_{15}^+ \Phi_{()} =$$

$$\Phi_{(A_9, B_8, C_{15})} =$$

$$+A_9^+ B_8^+ C_{15}^+ \Phi_{()} =$$

$$\Phi_{(A_9, B_{11}, C_1)} =$$

$$+C_1^+ \Phi_{(A_9, B_{11})} =$$

$$+A_9^+ B_{11}^+ \Phi_{(C_1,)} =$$

$$+A_9^+ B_{11}^+ C_1^+ \Phi_{()} =$$

$$\Phi_{(A_9, B_{11}, C_2)} =$$

$$+C_2^+ \Phi_{(A_9, B_{11})} =$$

$$+A_9^+ B_{11}^+ \Phi_{(C_2,)} =$$

$$+A_9^+ B_{11}^+ C_2^+ \Phi_{()} =$$

$$\Phi_{(A_9, B_{11}, C_3)} =$$

$$+C_3^+ \Phi_{(A_9, B_{11})} =$$

$$+A_9^+ B_{11}^+ \Phi_{(C_3,)} =$$

$$+A_9^+ B_{11}^+ C_3^+ \Phi_{()} =$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_1)} = \\
&+C_1^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ \Phi_{(C_1,)} \\
&+A_9^+ B_{12}^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_2)} = \\
&+C_2^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ \Phi_{(C_2,)} \\
&+A_9^+ B_{12}^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_3)} = \\
&+C_3^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ \Phi_{(C_3,)} \\
&+A_9^+ B_{12}^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{13}, C_4)} = \\
&+A_9^+ B_{13}^+ C_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{14}, C_4)} = \\
&+A_9^+ B_{14}^+ C_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{15}, C_7)} = \\
&+A_9^+ B_{15}^+ C_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{15}, C_8)} = \\
&+A_9^+ B_{15}^+ C_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_1, C_{11})} = \\
&+B_1^+ \Phi_{(A_{10}, C_{11})}
\end{aligned}$$

$$\begin{aligned}
& +A_{10}^+C_{11}^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_1,C_{12})} = \\
& +B_1^+\Phi_{(A_{10},C_{12})} \\
& +A_{10}^+C_{12}^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_{11})} = \\
& +B_2^+\Phi_{(A_{10},C_{11})} \\
& +A_{10}^+C_{11}^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_{12})} = \\
& +B_2^+\Phi_{(A_{10},C_{12})} \\
& +A_{10}^+C_{12}^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_3,C_{11})} = \\
& +B_3^+\Phi_{(A_{10},C_{11})} \\
& +A_{10}^+C_{11}^+\Phi_{(B_3,)} \\
& +A_{10}^+B_3^+C_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_3,C_{12})} = \\
& +B_3^+\Phi_{(A_{10},C_{12})} \\
& +A_{10}^+C_{12}^+\Phi_{(B_3,)} \\
& +A_{10}^+B_3^+C_{12}^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{10},B_4,C_{13})} =$$

$$+A_{10}^+B_4^+C_{13}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_4,C_{14})} =$$

$$+A_{10}^+B_4^+C_{14}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_7,C_{15})} =$$

$$+A_{10}^+B_7^+C_{15}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_8,C_{15})} =$$

$$+A_{10}^+B_8^+C_{15}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_1)} =$$

$$+C_1^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+\Phi_{(C_1,)}$$

$$+A_{10}^+B_{11}^+C_1^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_2)} =$$

$$+C_2^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_{11}^+C_2^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_3)} =$$

$$+C_3^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+\Phi_{(C_3,)}$$

$$+A_{10}^+B_{11}^+C_3^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_1)} =$$

$$+C_1^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+\Phi_{(C_1,)}$$

$$+A_{10}^+B_{12}^+C_1^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_2)} =$$

$$+C_2^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_{12}^+C_2^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_3)} =$$

$$+C_3^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+\Phi_{(C_3,)}$$

$$+A_{10}^+B_{12}^+C_3^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{13},C_4)} =$$

$$+A_{10}^+B_{13}^+C_4^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{14},C_4)} =$$

$$+A_{10}^+B_{14}^+C_4^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{15},C_7)} =$$

$$+A_{10}^+B_{15}^+C_7^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{15},C_8)} =$$

$$+A_{10}^+B_{15}^+C_8^+\Phi_{()}$$

$$\Phi_{(A_{11},B_1,C_9)} =$$

$$+B_1^+\Phi_{(A_{11},C_9)}$$

$$+A_{11}^+C_9^+\Phi_{(B_1,)}$$

$$+A_{11}^+B_1^+C_9^+\Phi_{()}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_1, C_{10})} = & \\
& + B_1^+ \Phi_{(A_{11}, C_{10})} \\
& + A_{11}^+ C_{10}^+ \Phi_{(B_1,)} \\
& + A_{11}^+ B_1^+ C_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_2, C_9)} = & \\
& + B_2^+ \Phi_{(A_{11}, C_9)} \\
& + A_{11}^+ C_9^+ \Phi_{(B_2,)} \\
& + A_{11}^+ B_2^+ C_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_2, C_{10})} = & \\
& + B_2^+ \Phi_{(A_{11}, C_{10})} \\
& + A_{11}^+ C_{10}^+ \Phi_{(B_2,)} \\
& + A_{11}^+ B_2^+ C_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_3, C_9)} = & \\
& + B_3^+ \Phi_{(A_{11}, C_9)} \\
& + A_{11}^+ C_9^+ \Phi_{(B_3,)} \\
& + A_{11}^+ B_3^+ C_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_3, C_{10})} = & \\
& + B_3^+ \Phi_{(A_{11}, C_{10})} \\
& + A_{11}^+ C_{10}^+ \Phi_{(B_3,)} \\
& + A_{11}^+ B_3^+ C_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_5, C_7)} = & \\
& + A_{11}^+ B_5^+ C_7^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{11}, B_5, C_8)} =$$

$$+A_{11}^+B_5^+C_8^+\Phi_{()}$$

$$\Phi_{(A_{11},B_6,C_{13})} =$$

$$+A_{11}^+B_6^+C_{13}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_6,C_{14})} =$$

$$+A_{11}^+B_6^+C_{14}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_7,C_5)} =$$

$$+A_{11}^+B_7^+C_5^+\Phi_{()}$$

$$\Phi_{(A_{11},B_8,C_5)} =$$

$$+A_{11}^+B_8^+C_5^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_1)} =$$

$$+C_1^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+\Phi_{(C_1,)}$$

$$+A_{11}^+B_9^+C_1^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_2)} =$$

$$+C_2^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+\Phi_{(C_2,)}$$

$$+A_{11}^+B_9^+C_2^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_3)} =$$

$$+C_3^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+\Phi_{(C_3,)}$$

$$+A_{11}^+B_9^+C_3^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_1)} = \\
&+C_1^+ \Phi_{(A_{11}, B_{10})} \\
&+A_{11}^+ B_{10}^+ \Phi_{(C_1,)} \\
&+A_{11}^+ B_{10}^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_2)} = \\
&+C_2^+ \Phi_{(A_{11}, B_{10})} \\
&+A_{11}^+ B_{10}^+ \Phi_{(C_2,)} \\
&+A_{11}^+ B_{10}^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_3)} = \\
&+C_3^+ \Phi_{(A_{11}, B_{10})} \\
&+A_{11}^+ B_{10}^+ \Phi_{(C_3,)} \\
&+A_{11}^+ B_{10}^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{13}, C_6)} = \\
&+A_{11}^+ B_{13}^+ C_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{14}, C_6)} = \\
&+A_{11}^+ B_{14}^+ C_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_1, C_9)} = \\
&+B_1^+ \Phi_{(A_{12}, C_9)} \\
&+A_{12}^+ C_9^+ \Phi_{(B_1,)} \\
&+A_{12}^+ B_1^+ C_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_1, C_{10})} = \\
&+B_1^+ \Phi_{(A_{12}, C_{10})} \\
&+A_{12}^+ C_{10}^+ \Phi_{(B_1,)}
\end{aligned}$$

$$+A_{12}^+B_1^+C_{10}^+\Phi_{()}$$

$$\Phi_{(A_{12},B_2,C_9)} =$$

$$+B_2^+\Phi_{(A_{12},C_9)}$$

$$+A_{12}^+C_9^+\Phi_{(B_2,)}$$

$$+A_{12}^+B_2^+C_9^+\Phi_{()}$$

$$\Phi_{(A_{12},B_2,C_{10})} =$$

$$+B_2^+\Phi_{(A_{12},C_{10})}$$

$$+A_{12}^+C_{10}^+\Phi_{(B_2,)}$$

$$+A_{12}^+B_2^+C_{10}^+\Phi_{()}$$

$$\Phi_{(A_{12},B_3,C_9)} =$$

$$+B_3^+\Phi_{(A_{12},C_9)}$$

$$+A_{12}^+C_9^+\Phi_{(B_3,)}$$

$$+A_{12}^+B_3^+C_9^+\Phi_{()}$$

$$\Phi_{(A_{12},B_3,C_{10})} =$$

$$+B_3^+\Phi_{(A_{12},C_{10})}$$

$$+A_{12}^+C_{10}^+\Phi_{(B_3,)}$$

$$+A_{12}^+B_3^+C_{10}^+\Phi_{()}$$

$$\Phi_{(A_{12},B_5,C_7)} =$$

$$+A_{12}^+B_5^+C_7^+\Phi_{()}$$

$$\Phi_{(A_{12},B_5,C_8)} =$$

$$+A_{12}^+B_5^+C_8^+\Phi_{()}$$

$$\Phi_{(A_{12},B_6,C_{13})} =$$

$$+A_{12}^+B_6^+C_{13}^+\Phi_{()}$$

$$\Phi_{(A_{12},B_6,C_{14})} =$$

$$+A_{12}^+B_6^+C_{14}^+\Phi_{()}$$

$$\Phi_{(A_{12},B_7,C_5)} =$$

$$+A_{12}^+B_7^+C_5^+\Phi_{()}$$

$$\Phi_{(A_{12},B_8,C_5)} =$$

$$+A_{12}^+B_8^+C_5^+\Phi_{()}$$

$$\Phi_{(A_{12},B_9,C_1)} =$$

$$+C_1^+\Phi_{(A_{12},B_9)}$$

$$+A_{12}^+B_9^+\Phi_{(C_1,)}$$

$$+A_{12}^+B_9^+C_1^+\Phi_{()}$$

$$\Phi_{(A_{12},B_9,C_2)} =$$

$$+C_2^+\Phi_{(A_{12},B_9)}$$

$$+A_{12}^+B_9^+\Phi_{(C_2,)}$$

$$+A_{12}^+B_9^+C_2^+\Phi_{()}$$

$$\Phi_{(A_{12},B_9,C_3)} =$$

$$+C_3^+\Phi_{(A_{12},B_9)}$$

$$+A_{12}^+B_9^+\Phi_{(C_3,)}$$

$$+A_{12}^+B_9^+C_3^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{10},C_1)} =$$

$$+C_1^+\Phi_{(A_{12},B_{10})}$$

$$+A_{12}^+B_{10}^+\Phi_{(C_1,)}$$

$$+A_{12}^+B_{10}^+C_1^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{10},C_2)} =$$

$$+C_2^+\Phi_{(A_{12},B_{10})}$$

$$+A_{12}^+B_{10}^+\Phi_{(C_2,)}$$

$$+A_{12}^+B_{10}^+C_2^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{10},C_3)} =$$

$$+C_3^+\Phi_{(A_{12},B_{10})}$$

$$+A_{12}^+B_{10}^+\Phi_{(C_3,)}$$

$$+A_{12}^+B_{10}^+C_3^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{13},C_6)} =$$

$$+A_{12}^+B_{13}^+C_6^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{14},C_6)} =$$

$$+A_{12}^+B_{14}^+C_6^+\Phi_{()}$$

$$\Phi_{(A_{13},B_1,C_7)} =$$

$$+B_1^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+C_7^+\Phi_{(B_1,)}$$

$$+A_{13}^+B_1^+C_7^+\Phi_{()}$$

$$\Phi_{(A_{13},B_1,C_8)} =$$

$$+B_1^+\Phi_{(A_{13},C_8)}$$

$$+A_{13}^+C_8^+\Phi_{(B_1,)}$$

$$+A_{13}^+B_1^+C_8^+\Phi_{()}$$

$$\Phi_{(A_{13},B_2,C_7)} =$$

$$+B_2^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+C_7^+\Phi_{(B_2,)}$$

$$+A_{13}^+B_2^+C_7^+\Phi_{()}$$

$$\Phi_{(A_{13},B_2,C_8)} =$$

$$+B_2^+\Phi_{(A_{13},C_8)}$$

$$+A_{13}^+C_8^+\Phi_{(B_2,)}$$

$$+A_{13}^+B_2^+C_8^+\Phi_{()}$$

$$\Phi_{(A_{13},B_3,C_7)} =$$

$$+B_3^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+C_7^+\Phi_{(B_3,)}$$

$$+A_{13}^+B_3^+C_7^+\Phi_{()}$$

$$\Phi_{(A_{13},B_3,C_8)} =$$

$$+B_3^+\Phi_{(A_{13},C_8)}$$

$$+A_{13}^+C_8^+\Phi_{(B_3,)}$$

$$+A_{13}^+B_3^+C_8^+\Phi_{()}$$

$$\Phi_{(A_{13},B_4,C_9)} =$$

$$+A_{13}^+B_4^+C_9^+\Phi_{()}$$

$$\Phi_{(A_{13},B_4,C_{10})} =$$

$$+A_{13}^+B_4^+C_{10}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_6,C_{11})} =$$

$$+A_{13}^+B_6^+C_{11}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_6,C_{12})} =$$

$$+A_{13}^+B_6^+C_{12}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_7,C_1)} =$$

$$+C_1^+\Phi_{(A_{13},B_7)}$$

$$+A_{13}^+B_7^+\Phi_{(C_1,)}$$

$$+A_{13}^+B_7^+C_1^+\Phi_{()}$$

$$\Phi_{(A_{13},B_7,C_2)} =$$

$$+C_2^+\Phi_{(A_{13},B_7)}$$

$$+A_{13}^+B_7^+\Phi_{(C_2,)}$$

$$+A_{13}^+B_7^+C_2^+\Phi_{()}$$

$$\Phi_{(A_{13},B_7,C_3)} =$$

$$+C_3^+\Phi_{(A_{13},B_7)}$$

$$+A_{13}^+B_7^+\Phi_{(C_3,)}$$

$$+A_{13}^+B_7^+C_3^+\Phi_{()}$$

$$\Phi_{(A_{13},B_8,C_1)} =$$

$$+C_1^+\Phi_{(A_{13},B_8)}$$

$$+A_{13}^+B_8^+\Phi_{(C_1,)}$$

$$+A_{13}^+B_8^+C_1^+\Phi_{()}$$

$$\Phi_{(A_{13},B_8,C_2)} =$$

$$+C_2^+\Phi_{(A_{13},B_8)}$$

$$+A_{13}^+B_8^+\Phi_{(C_2,)}$$

$$+A_{13}^+B_8^+C_2^+\Phi_{()}$$

$$\Phi_{(A_{13},B_8,C_3)} =$$

$$+C_3^+\Phi_{(A_{13},B_8)}$$

$$+A_{13}^+B_8^+\Phi_{(C_3,)}$$

$$+A_{13}^+B_8^+C_3^+\Phi_{()}$$

$$\Phi_{(A_{13},B_9,C_4)} =$$

$$+A_{13}^+B_9^+C_4^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{10},C_4)} =$$

$$+A_{13}^+B_{10}^+C_4^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{11},C_6)} =$$

$$+A_{13}^+B_{11}^+C_6^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{12},C_6)} =$$

$$+A_{13}^+B_{12}^+C_6^+\Phi_{()}$$

$$\Phi_{(A_{14},B_1,C_7)} =$$

$$+B_1^+\Phi_{(A_{14},C_7)}$$

$$+A_{14}^+C_7^+\Phi_{(B_1,)}$$

$$+A_{14}^+B_1^+C_7^+\Phi_{()}$$

$$\Phi_{(A_{14},B_1,C_8)} =$$

$$+B_1^+\Phi_{(A_{14},C_8)}$$

$$+A_{14}^+C_8^+\Phi_{(B_1,)}$$

$$+A_{14}^+B_1^+C_8^+\Phi_{()}$$

$$\Phi_{(A_{14},B_2,C_7)} =$$

$$+B_2^+\Phi_{(A_{14},C_7)}$$

$$+A_{14}^+C_7^+\Phi_{(B_2,)}$$

$$+A_{14}^+B_2^+C_7^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_2, C_8)} = \\
&+ B_2^+ \Phi_{(A_{14}, C_8)} \\
&+ A_{14}^+ C_8^+ \Phi_{(B_2,)} \\
&+ A_{14}^+ B_2^+ C_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_3, C_7)} = \\
&+ B_3^+ \Phi_{(A_{14}, C_7)} \\
&+ A_{14}^+ C_7^+ \Phi_{(B_3,)} \\
&+ A_{14}^+ B_3^+ C_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_3, C_8)} = \\
&+ B_3^+ \Phi_{(A_{14}, C_8)} \\
&+ A_{14}^+ C_8^+ \Phi_{(B_3,)} \\
&+ A_{14}^+ B_3^+ C_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_4, C_9)} = \\
&+ A_{14}^+ B_4^+ C_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_4, C_{10})} = \\
&+ A_{14}^+ B_4^+ C_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_6, C_{11})} = \\
&+ A_{14}^+ B_6^+ C_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_6, C_{12})} = \\
&+ A_{14}^+ B_6^+ C_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{14}, B_7, C_1)} =$$

$$\begin{aligned}
& +C_1^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_1,)} \\
& +A_{14}^+ B_7^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_2)} = \\
& +C_2^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_2,)} \\
& +A_{14}^+ B_7^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_3)} = \\
& +C_3^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_3,)} \\
& +A_{14}^+ B_7^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_8, C_1)} = \\
& +C_1^+ \Phi_{(A_{14}, B_8)} \\
& +A_{14}^+ B_8^+ \Phi_{(C_1,)} \\
& +A_{14}^+ B_8^+ C_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_8, C_2)} = \\
& +C_2^+ \Phi_{(A_{14}, B_8)} \\
& +A_{14}^+ B_8^+ \Phi_{(C_2,)} \\
& +A_{14}^+ B_8^+ C_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_8, C_3)} = \\
& +C_3^+ \Phi_{(A_{14}, B_8)} \\
& +A_{14}^+ B_8^+ \Phi_{(C_3,)} \\
& +A_{14}^+ B_8^+ C_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14},B_9,C_4)} = \\ +A_{14}^+B_9^+C_4^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14},B_{10},C_4)} = \\ +A_{14}^+B_{10}^+C_4^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14},B_{11},C_6)} = \\ +A_{14}^+B_{11}^+C_6^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14},B_{12},C_6)} = \\ +A_{14}^+B_{12}^+C_6^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_1,C_6)} = \\ +B_1^+\Phi_{(A_{15},C_6)} \\ +A_{15}^+C_6^+\Phi_{(B_1,)} \\ +A_{15}^+B_1^+C_6^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_2,C_6)} = \\ +B_2^+\Phi_{(A_{15},C_6)} \\ +A_{15}^+C_6^+\Phi_{(B_2,)} \\ +A_{15}^+B_2^+C_6^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_3,C_6)} = \\ +B_3^+\Phi_{(A_{15},C_6)} \\ +A_{15}^+C_6^+\Phi_{(B_3,)} \\ +A_{15}^+B_3^+C_6^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_6,C_1)} = \\ +C_1^+\Phi_{(A_{15},B_6)}\end{aligned}$$

$$\begin{aligned}
& +A_{15}^+B_6^+\Phi_{(C_1,)} \\
& +A_{15}^+B_6^+C_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_6,C_2)} = \\
& +C_2^+\Phi_{(A_{15},B_6)} \\
& +A_{15}^+B_6^+\Phi_{(C_2,)} \\
& +A_{15}^+B_6^+C_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_6,C_3)} = \\
& +C_3^+\Phi_{(A_{15},B_6)} \\
& +A_{15}^+B_6^+\Phi_{(C_3,)} \\
& +A_{15}^+B_6^+C_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_7,C_9)} = \\
& +A_{15}^+B_7^+C_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_7,C_{10})} = \\
& +A_{15}^+B_7^+C_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_8,C_9)} = \\
& +A_{15}^+B_8^+C_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_8,C_{10})} = \\
& +A_{15}^+B_8^+C_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_9,C_7)} = \\
& +A_{15}^+B_9^+C_7^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{15},B_9,C_8)} =$$

$$+A_{15}^+B_9^+C_8^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{10},C_7)} =$$

$$+A_{15}^+B_{10}^+C_7^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{10},C_8)} =$$

$$+A_{15}^+B_{10}^+C_8^+\Phi_{()}$$

$$\Phi_{(A_1,B_1,C_1,D_1)} =$$

$$+A_1^+\Phi_{(B_1,C_1,D_1)}$$

$$+B_1^+\Phi_{(A_1,C_1,D_1)}$$

$$+C_1^+\Phi_{(A_1,B_1,D_1)}$$

$$+D_1^+\Phi_{(A_1,B_1,C_1)}$$

$$+A_1^+B_1^+\Phi_{(C_1,D_1)}$$

$$+A_1^+C_1^+\Phi_{(B_1,D_1)}$$

$$+A_1^+D_1^+\Phi_{(B_1,C_1)}$$

$$+B_1^+C_1^+\Phi_{(A_1,D_1)}$$

$$+B_1^+D_1^+\Phi_{(A_1,C_1)}$$

$$+C_1^+D_1^+\Phi_{(A_1,B_1)}$$

$$+A_1^+B_1^+C_1^+\Phi_{(D_1,)}$$

$$+A_1^+B_1^+D_1^+\Phi_{(C_1,)}$$

$$+A_1^+C_1^+D_1^+\Phi_{(B_1,)}$$

$$+B_1^+C_1^+D_1^+\Phi_{(A_1,)}$$

$$+A_1^+B_1^+C_1^+D_1^+\Phi_{()}$$

$$\Phi_{(A_1,B_1,C_1,D_2)} =$$

$$+A_1^+\Phi_{(B_1,C_1,D_2)}$$

$$+B_1^+\Phi_{(A_1,C_1,D_2)}$$

$$+C_1^+\Phi_{(A_1,B_1,D_2)}$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_1, B_1, C_1)} \\
& +A_1^+ B_1^+ \Phi_{(C_1, D_2)} \\
& +A_1^+ C_1^+ \Phi_{(B_1, D_2)} \\
& +A_1^+ D_2^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ D_2^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ B_1^+ C_1^+ \Phi_{(D_2,)} \\
& +A_1^+ B_1^+ D_2^+ \Phi_{(C_1,)} \\
& +A_1^+ C_1^+ D_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_1^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_1, D_3)} = \\
& +A_1^+ \Phi_{(B_1, C_1, D_3)} \\
& +B_1^+ \Phi_{(A_1, C_1, D_3)} \\
& +C_1^+ \Phi_{(A_1, B_1, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_1, C_1)} \\
& +A_1^+ B_1^+ \Phi_{(C_1, D_3)} \\
& +A_1^+ C_1^+ \Phi_{(B_1, D_3)} \\
& +A_1^+ D_3^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ D_3^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ B_1^+ C_1^+ \Phi_{(D_3,)} \\
& +A_1^+ B_1^+ D_3^+ \Phi_{(C_1,)} \\
& +A_1^+ C_1^+ D_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_1^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_2, D_1)} = \\
& + A_1^+ \Phi_{(B_1, C_2, D_1)} \\
& + B_1^+ \Phi_{(A_1, C_2, D_1)} \\
& + C_2^+ \Phi_{(A_1, B_1, D_1)} \\
& + D_1^+ \Phi_{(A_1, B_1, C_2)} \\
& + A_1^+ B_1^+ \Phi_{(C_2, D_1)} \\
& + A_1^+ C_2^+ \Phi_{(B_1, D_1)} \\
& + A_1^+ D_1^+ \Phi_{(B_1, C_2)} \\
& + B_1^+ C_2^+ \Phi_{(A_1, D_1)} \\
& + B_1^+ D_1^+ \Phi_{(A_1, C_2)} \\
& + C_2^+ D_1^+ \Phi_{(A_1, B_1)} \\
& + A_1^+ B_1^+ C_2^+ \Phi_{(D_1,)} \\
& + A_1^+ B_1^+ D_1^+ \Phi_{(C_2,)} \\
& + A_1^+ C_2^+ D_1^+ \Phi_{(B_1,)} \\
& + B_1^+ C_2^+ D_1^+ \Phi_{(A_1,)} \\
& + A_1^+ B_1^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_2, D_2)} = \\
& + A_1^+ \Phi_{(B_1, C_2, D_2)} \\
& + B_1^+ \Phi_{(A_1, C_2, D_2)} \\
& + C_2^+ \Phi_{(A_1, B_1, D_2)} \\
& + D_2^+ \Phi_{(A_1, B_1, C_2)} \\
& + A_1^+ B_1^+ \Phi_{(C_2, D_2)} \\
& + A_1^+ C_2^+ \Phi_{(B_1, D_2)} \\
& + A_1^+ D_2^+ \Phi_{(B_1, C_2)} \\
& + B_1^+ C_2^+ \Phi_{(A_1, D_2)} \\
& + B_1^+ D_2^+ \Phi_{(A_1, C_2)} \\
& + C_2^+ D_2^+ \Phi_{(A_1, B_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ B_1^+ C_2^+ \Phi_{(D_2,)} \\
& +A_1^+ B_1^+ D_2^+ \Phi_{(C_2,)} \\
& +A_1^+ C_2^+ D_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_2^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_2, D_3)} = \\
& +A_1^+ \Phi_{(B_1, C_2, D_3)} \\
& +B_1^+ \Phi_{(A_1, C_2, D_3)} \\
& +C_2^+ \Phi_{(A_1, B_1, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_1, C_2)} \\
& +A_1^+ B_1^+ \Phi_{(C_2, D_3)} \\
& +A_1^+ C_2^+ \Phi_{(B_1, D_3)} \\
& +A_1^+ D_3^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_1, C_2)} \\
& +C_2^+ D_3^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ B_1^+ C_2^+ \Phi_{(D_3,)} \\
& +A_1^+ B_1^+ D_3^+ \Phi_{(C_2,)} \\
& +A_1^+ C_2^+ D_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_2^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_3, D_1)} = \\
& +A_1^+ \Phi_{(B_1, C_3, D_1)} \\
& +B_1^+ \Phi_{(A_1, C_3, D_1)} \\
& +C_3^+ \Phi_{(A_1, B_1, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_1, C_3)} \\
& +A_1^+ B_1^+ \Phi_{(C_3, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ C_3^+ \Phi_{(B_1, D_1)} \\
& +A_1^+ D_1^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ D_1^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ B_1^+ C_3^+ \Phi_{(D_1,)} \\
& +A_1^+ B_1^+ D_1^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ D_1^+ \Phi_{(B_1,)} \\
& +B_1^+ C_3^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_3, D_2)} = \\
& +A_1^+ \Phi_{(B_1, C_3, D_2)} \\
& +B_1^+ \Phi_{(A_1, C_3, D_2)} \\
& +C_3^+ \Phi_{(A_1, B_1, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_1, C_3)} \\
& +A_1^+ B_1^+ \Phi_{(C_3, D_2)} \\
& +A_1^+ C_3^+ \Phi_{(B_1, D_2)} \\
& +A_1^+ D_2^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ D_2^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ B_1^+ C_3^+ \Phi_{(D_2,)} \\
& +A_1^+ B_1^+ D_2^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ D_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_3^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1, B_1, C_3, D_3)} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_1, C_3, D_3)} \\
& +B_1^+ \Phi_{(A_1, C_3, D_3)} \\
& +C_3^+ \Phi_{(A_1, B_1, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_1, C_3)} \\
& +A_1^+ B_1^+ \Phi_{(C_3, D_3)} \\
& +A_1^+ C_3^+ \Phi_{(B_1, D_3)} \\
& +A_1^+ D_3^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ B_1^+ C_3^+ \Phi_{(D_3,)} \\
& +A_1^+ B_1^+ D_3^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ D_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_3^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_4, D_5)} = \\
& +A_1^+ \Phi_{(B_1, C_4, D_5)} \\
& +B_1^+ \Phi_{(A_1, C_4, D_5)} \\
& +A_1^+ B_1^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_4^+ D_5^+ \Phi_{(B_1,)} \\
& +B_1^+ C_4^+ D_5^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_5, D_4)} = \\
& +A_1^+ \Phi_{(B_1, C_5, D_4)} \\
& +B_1^+ \Phi_{(A_1, C_5, D_4)} \\
& +A_1^+ B_1^+ \Phi_{(C_5, D_4)}
\end{aligned}$$

$$\begin{aligned}
& +C_5^+ D_4^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_5^+ D_4^+ \Phi_{(B_1,)} \\
& +B_1^+ C_5^+ D_4^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_6, D_{15})} = \\
& +A_1^+ \Phi_{(B_1, C_6, D_{15})} \\
& +B_1^+ \Phi_{(A_1, C_6, D_{15})} \\
& +A_1^+ B_1^+ \Phi_{(C_6, D_{15})} \\
& +C_6^+ D_{15}^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_6^+ D_{15}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_6^+ D_{15}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_7, D_{13})} = \\
& +A_1^+ \Phi_{(B_1, C_7, D_{13})} \\
& +B_1^+ \Phi_{(A_1, C_7, D_{13})} \\
& +A_1^+ B_1^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_7^+ D_{13}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_7^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_7, D_{14})} = \\
& +A_1^+ \Phi_{(B_1, C_7, D_{14})} \\
& +B_1^+ \Phi_{(A_1, C_7, D_{14})} \\
& +A_1^+ B_1^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_7^+ D_{14}^+ \Phi_{(B_1,)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ C_7^+ D_{14}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_8, D_{13})} = \\
& +A_1^+ \Phi_{(B_1, C_8, D_{13})} \\
& +B_1^+ \Phi_{(A_1, C_8, D_{13})} \\
& +A_1^+ B_1^+ \Phi_{(C_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_8^+ D_{13}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_8^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_8, D_{14})} = \\
& +A_1^+ \Phi_{(B_1, C_8, D_{14})} \\
& +B_1^+ \Phi_{(A_1, C_8, D_{14})} \\
& +A_1^+ B_1^+ \Phi_{(C_8, D_{14})} \\
& +C_8^+ D_{14}^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_8^+ D_{14}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_8^+ D_{14}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_9, D_{11})} = \\
& +A_1^+ \Phi_{(B_1, C_9, D_{11})} \\
& +B_1^+ \Phi_{(A_1, C_9, D_{11})} \\
& +A_1^+ B_1^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_9^+ D_{11}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_9^+ D_{11}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_1, C_9, D_{12})} = \\
&+ A_1^+ \Phi_{(B_1, C_9, D_{12})} \\
&+ B_1^+ \Phi_{(A_1, C_9, D_{12})} \\
&+ A_1^+ B_1^+ \Phi_{(C_9, D_{12})} \\
&+ C_9^+ D_{12}^+ \Phi_{(A_1, B_1)} \\
&+ A_1^+ C_9^+ D_{12}^+ \Phi_{(B_1,)} \\
&+ B_1^+ C_9^+ D_{12}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_1^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_1, C_{10}, D_{11})} = \\
&+ A_1^+ \Phi_{(B_1, C_{10}, D_{11})} \\
&+ B_1^+ \Phi_{(A_1, C_{10}, D_{11})} \\
&+ A_1^+ B_1^+ \Phi_{(C_{10}, D_{11})} \\
&+ C_{10}^+ D_{11}^+ \Phi_{(A_1, B_1)} \\
&+ A_1^+ C_{10}^+ D_{11}^+ \Phi_{(B_1,)} \\
&+ B_1^+ C_{10}^+ D_{11}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_1^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_1, C_{10}, D_{12})} = \\
&+ A_1^+ \Phi_{(B_1, C_{10}, D_{12})} \\
&+ B_1^+ \Phi_{(A_1, C_{10}, D_{12})} \\
&+ A_1^+ B_1^+ \Phi_{(C_{10}, D_{12})} \\
&+ C_{10}^+ D_{12}^+ \Phi_{(A_1, B_1)} \\
&+ A_1^+ C_{10}^+ D_{12}^+ \Phi_{(B_1,)} \\
&+ B_1^+ C_{10}^+ D_{12}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_1^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1, B_1, C_{11}, D_9)} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_1, C_{11}, D_9)} \\
& +B_1^+ \Phi_{(A_1, C_{11}, D_9)} \\
& +A_1^+ B_1^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_{11}^+ D_9^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{11}^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_{11}, D_{10})} = \\
& +A_1^+ \Phi_{(B_1, C_{11}, D_{10})} \\
& +B_1^+ \Phi_{(A_1, C_{11}, D_{10})} \\
& +A_1^+ B_1^+ \Phi_{(C_{11}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_{11}^+ D_{10}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{11}^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_{12}, D_9)} = \\
& +A_1^+ \Phi_{(B_1, C_{12}, D_9)} \\
& +B_1^+ \Phi_{(A_1, C_{12}, D_9)} \\
& +A_1^+ B_1^+ \Phi_{(C_{12}, D_9)} \\
& +C_{12}^+ D_9^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_{12}^+ D_9^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{12}^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_{12}, D_{10})} = \\
& +A_1^+ \Phi_{(B_1, C_{12}, D_{10})} \\
& +B_1^+ \Phi_{(A_1, C_{12}, D_{10})}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ B_1^+ \Phi_{(C_{12}, D_{10})} \\
& +C_{12}^+ D_{10}^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_{12}^+ D_{10}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{12}^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_{13}, D_7)} = \\
& +A_1^+ \Phi_{(B_1, C_{13}, D_7)} \\
& +B_1^+ \Phi_{(A_1, C_{13}, D_7)} \\
& +A_1^+ B_1^+ \Phi_{(C_{13}, D_7)} \\
& +C_{13}^+ D_7^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_{13}^+ D_7^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{13}^+ D_7^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_{13}, D_8)} = \\
& +A_1^+ \Phi_{(B_1, C_{13}, D_8)} \\
& +B_1^+ \Phi_{(A_1, C_{13}, D_8)} \\
& +A_1^+ B_1^+ \Phi_{(C_{13}, D_8)} \\
& +C_{13}^+ D_8^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_{13}^+ D_8^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{13}^+ D_8^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_{14}, D_7)} = \\
& +A_1^+ \Phi_{(B_1, C_{14}, D_7)} \\
& +B_1^+ \Phi_{(A_1, C_{14}, D_7)} \\
& +A_1^+ B_1^+ \Phi_{(C_{14}, D_7)} \\
& +C_{14}^+ D_7^+ \Phi_{(A_1, B_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ C_{14}^+ D_7^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{14}^+ D_7^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_{14}, D_8)} = \\
& +A_1^+ \Phi_{(B_1, C_{14}, D_8)} \\
& +B_1^+ \Phi_{(A_1, C_{14}, D_8)} \\
& +A_1^+ B_1^+ \Phi_{(C_{14}, D_8)} \\
& +C_{14}^+ D_8^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_{14}^+ D_8^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{14}^+ D_8^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_1, C_{15}, D_6)} = \\
& +A_1^+ \Phi_{(B_1, C_{15}, D_6)} \\
& +B_1^+ \Phi_{(A_1, C_{15}, D_6)} \\
& +A_1^+ B_1^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_1, B_1)} \\
& +A_1^+ C_{15}^+ D_6^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{15}^+ D_6^+ \Phi_{(A_1,)} \\
& +A_1^+ B_1^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_1, D_1)} = \\
& +A_1^+ \Phi_{(B_2, C_1, D_1)} \\
& +B_2^+ \Phi_{(A_1, C_1, D_1)} \\
& +C_1^+ \Phi_{(A_1, B_2, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_2, C_1)} \\
& +A_1^+ B_2^+ \Phi_{(C_1, D_1)} \\
& +A_1^+ C_1^+ \Phi_{(B_2, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ D_1^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_1, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ D_1^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ B_2^+ C_1^+ \Phi_{(D_1,)} \\
& +A_1^+ B_2^+ D_1^+ \Phi_{(C_1,)} \\
& +A_1^+ C_1^+ D_1^+ \Phi_{(B_2,)} \\
& +B_2^+ C_1^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_1, D_2)} = \\
& +A_1^+ \Phi_{(B_2, C_1, D_2)} \\
& +B_2^+ \Phi_{(A_1, C_1, D_2)} \\
& +C_1^+ \Phi_{(A_1, B_2, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_2, C_1)} \\
& +A_1^+ B_2^+ \Phi_{(C_1, D_2)} \\
& +A_1^+ C_1^+ \Phi_{(B_2, D_2)} \\
& +A_1^+ D_2^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_1, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ D_2^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ B_2^+ C_1^+ \Phi_{(D_2,)} \\
& +A_1^+ B_2^+ D_2^+ \Phi_{(C_1,)} \\
& +A_1^+ C_1^+ D_2^+ \Phi_{(B_2,)} \\
& +B_2^+ C_1^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_1, D_3)} = \\
& +A_1^+ \Phi_{(B_2, C_1, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_1, C_1, D_3)} \\
& +C_1^+ \Phi_{(A_1, B_2, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_2, C_1)} \\
& +A_1^+ B_2^+ \Phi_{(C_1, D_3)} \\
& +A_1^+ C_1^+ \Phi_{(B_2, D_3)} \\
& +A_1^+ D_3^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_1, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ D_3^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ B_2^+ C_1^+ \Phi_{(D_3,)} \\
& +A_1^+ B_2^+ D_3^+ \Phi_{(C_1,)} \\
& +A_1^+ C_1^+ D_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_1^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_2, D_1)} = \\
& +A_1^+ \Phi_{(B_2, C_2, D_1)} \\
& +B_2^+ \Phi_{(A_1, C_2, D_1)} \\
& +C_2^+ \Phi_{(A_1, B_2, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_2, C_2)} \\
& +A_1^+ B_2^+ \Phi_{(C_2, D_1)} \\
& +A_1^+ C_2^+ \Phi_{(B_2, D_1)} \\
& +A_1^+ D_1^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_1, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_1, C_2)} \\
& +C_2^+ D_1^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ B_2^+ C_2^+ \Phi_{(D_1,)} \\
& +A_1^+ B_2^+ D_1^+ \Phi_{(C_2,)} \\
& +A_1^+ C_2^+ D_1^+ \Phi_{(B_2,)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ C_2^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_2, C_2, D_2)} = & \\
& +A_1^+ \Phi_{(B_2, C_2, D_2)} \\
& +B_2^+ \Phi_{(A_1, C_2, D_2)} \\
& +C_2^+ \Phi_{(A_1, B_2, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_2, C_2)} \\
& +A_1^+ B_2^+ \Phi_{(C_2, D_2)} \\
& +A_1^+ C_2^+ \Phi_{(B_2, D_2)} \\
& +A_1^+ D_2^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_1, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_1, C_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ B_2^+ C_2^+ \Phi_{(D_2,)} \\
& +A_1^+ B_2^+ D_2^+ \Phi_{(C_2,)} \\
& +A_1^+ C_2^+ D_2^+ \Phi_{(B_2,)} \\
& +B_2^+ C_2^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_2, C_2, D_3)} = & \\
& +A_1^+ \Phi_{(B_2, C_2, D_3)} \\
& +B_2^+ \Phi_{(A_1, C_2, D_3)} \\
& +C_2^+ \Phi_{(A_1, B_2, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_2, C_2)} \\
& +A_1^+ B_2^+ \Phi_{(C_2, D_3)} \\
& +A_1^+ C_2^+ \Phi_{(B_2, D_3)} \\
& +A_1^+ D_3^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_1, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ D_3^+ \Phi_{(A_1, C_2)} \\
& +C_2^+ D_3^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ B_2^+ C_2^+ \Phi_{(D_3,)} \\
& +A_1^+ B_2^+ D_3^+ \Phi_{(C_2,)} \\
& +A_1^+ C_2^+ D_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_2^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_3, D_1)} = \\
& +A_1^+ \Phi_{(B_2, C_3, D_1)} \\
& +B_2^+ \Phi_{(A_1, C_3, D_1)} \\
& +C_3^+ \Phi_{(A_1, B_2, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_2, C_3)} \\
& +A_1^+ B_2^+ \Phi_{(C_3, D_1)} \\
& +A_1^+ C_3^+ \Phi_{(B_2, D_1)} \\
& +A_1^+ D_1^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_1, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ D_1^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ B_2^+ C_3^+ \Phi_{(D_1,)} \\
& +A_1^+ B_2^+ D_1^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ D_1^+ \Phi_{(B_2,)} \\
& +B_2^+ C_3^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_3, D_2)} = \\
& +A_1^+ \Phi_{(B_2, C_3, D_2)} \\
& +B_2^+ \Phi_{(A_1, C_3, D_2)} \\
& +C_3^+ \Phi_{(A_1, B_2, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_1, B_2, C_3)} \\
& +A_1^+ B_2^+ \Phi_{(C_3, D_2)} \\
& +A_1^+ C_3^+ \Phi_{(B_2, D_2)} \\
& +A_1^+ D_2^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_1, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ D_2^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ B_2^+ C_3^+ \Phi_{(D_2,)} \\
& +A_1^+ B_2^+ D_2^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ D_2^+ \Phi_{(B_2,)} \\
& +B_2^+ C_3^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_3, D_3)} = \\
& +A_1^+ \Phi_{(B_2, C_3, D_3)} \\
& +B_2^+ \Phi_{(A_1, C_3, D_3)} \\
& +C_3^+ \Phi_{(A_1, B_2, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_2, C_3)} \\
& +A_1^+ B_2^+ \Phi_{(C_3, D_3)} \\
& +A_1^+ C_3^+ \Phi_{(B_2, D_3)} \\
& +A_1^+ D_3^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_1, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ B_2^+ C_3^+ \Phi_{(D_3,)} \\
& +A_1^+ B_2^+ D_3^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ D_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_3^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_2, C_4, D_5)} = \\
&+A_1^+ \Phi_{(B_2, C_4, D_5)} \\
&+B_2^+ \Phi_{(A_1, C_4, D_5)} \\
&+A_1^+ B_2^+ \Phi_{(C_4, D_5)} \\
&+C_4^+ D_5^+ \Phi_{(A_1, B_2)} \\
&+A_1^+ C_4^+ D_5^+ \Phi_{(B_2,)} \\
&+B_2^+ C_4^+ D_5^+ \Phi_{(A_1,)} \\
&+A_1^+ B_2^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_2, C_5, D_4)} = \\
&+A_1^+ \Phi_{(B_2, C_5, D_4)} \\
&+B_2^+ \Phi_{(A_1, C_5, D_4)} \\
&+A_1^+ B_2^+ \Phi_{(C_5, D_4)} \\
&+C_5^+ D_4^+ \Phi_{(A_1, B_2)} \\
&+A_1^+ C_5^+ D_4^+ \Phi_{(B_2,)} \\
&+B_2^+ C_5^+ D_4^+ \Phi_{(A_1,)} \\
&+A_1^+ B_2^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_2, C_6, D_{15})} = \\
&+A_1^+ \Phi_{(B_2, C_6, D_{15})} \\
&+B_2^+ \Phi_{(A_1, C_6, D_{15})} \\
&+A_1^+ B_2^+ \Phi_{(C_6, D_{15})} \\
&+C_6^+ D_{15}^+ \Phi_{(A_1, B_2)} \\
&+A_1^+ C_6^+ D_{15}^+ \Phi_{(B_2,)} \\
&+B_2^+ C_6^+ D_{15}^+ \Phi_{(A_1,)} \\
&+A_1^+ B_2^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1, B_2, C_7, D_{13})} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_2, C_7, D_{13})} \\
& +B_2^+ \Phi_{(A_1, C_7, D_{13})} \\
& +A_1^+ B_2^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_7^+ D_{13}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_7^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_7, D_{14})} = \\
& +A_1^+ \Phi_{(B_2, C_7, D_{14})} \\
& +B_2^+ \Phi_{(A_1, C_7, D_{14})} \\
& +A_1^+ B_2^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_7^+ D_{14}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_7^+ D_{14}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_8, D_{13})} = \\
& +A_1^+ \Phi_{(B_2, C_8, D_{13})} \\
& +B_2^+ \Phi_{(A_1, C_8, D_{13})} \\
& +A_1^+ B_2^+ \Phi_{(C_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_8^+ D_{13}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_8^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_8, D_{14})} = \\
& +A_1^+ \Phi_{(B_2, C_8, D_{14})} \\
& +B_2^+ \Phi_{(A_1, C_8, D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ B_2^+ \Phi_{(C_8, D_{14})} \\
& +C_8^+ D_{14}^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_8^+ D_{14}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_8^+ D_{14}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_9, D_{11})} = \\
& +A_1^+ \Phi_{(B_2, C_9, D_{11})} \\
& +B_2^+ \Phi_{(A_1, C_9, D_{11})} \\
& +A_1^+ B_2^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_9^+ D_{11}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_9^+ D_{11}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_9, D_{12})} = \\
& +A_1^+ \Phi_{(B_2, C_9, D_{12})} \\
& +B_2^+ \Phi_{(A_1, C_9, D_{12})} \\
& +A_1^+ B_2^+ \Phi_{(C_9, D_{12})} \\
& +C_9^+ D_{12}^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_9^+ D_{12}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_9^+ D_{12}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_2, C_{10}, D_{11})} = \\
& +A_1^+ \Phi_{(B_2, C_{10}, D_{11})} \\
& +B_2^+ \Phi_{(A_1, C_{10}, D_{11})} \\
& +A_1^+ B_2^+ \Phi_{(C_{10}, D_{11})} \\
& +C_{10}^+ D_{11}^+ \Phi_{(A_1, B_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ C_{10}^+ D_{11}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{10}^+ D_{11}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_2, C_{10}, D_{12})} = \\
& +A_1^+ \Phi_{(B_2, C_{10}, D_{12})} \\
& +B_2^+ \Phi_{(A_1, C_{10}, D_{12})} \\
& +A_1^+ B_2^+ \Phi_{(C_{10}, D_{12})} \\
& +C_{10}^+ D_{12}^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_{10}^+ D_{12}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{10}^+ D_{12}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_2, C_{11}, D_9)} = \\
& +A_1^+ \Phi_{(B_2, C_{11}, D_9)} \\
& +B_2^+ \Phi_{(A_1, C_{11}, D_9)} \\
& +A_1^+ B_2^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_{11}^+ D_9^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{11}^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_2, C_{11}, D_{10})} = \\
& +A_1^+ \Phi_{(B_2, C_{11}, D_{10})} \\
& +B_2^+ \Phi_{(A_1, C_{11}, D_{10})} \\
& +A_1^+ B_2^+ \Phi_{(C_{11}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_{11}^+ D_{10}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{11}^+ D_{10}^+ \Phi_{(A_1,)}
\end{aligned}$$

$$+A_1^+ B_2^+ C_{11}^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_2, C_{12}, D_9)} =$$

$$+A_1^+ \Phi_{(B_2, C_{12}, D_9)}$$

$$+B_2^+ \Phi_{(A_1, C_{12}, D_9)}$$

$$+A_1^+ B_2^+ \Phi_{(C_{12}, D_9)}$$

$$+C_{12}^+ D_9^+ \Phi_{(A_1, B_2)}$$

$$+A_1^+ C_{12}^+ D_9^+ \Phi_{(B_2,)}$$

$$+B_2^+ C_{12}^+ D_9^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_2^+ C_{12}^+ D_9^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_2, C_{12}, D_{10})} =$$

$$+A_1^+ \Phi_{(B_2, C_{12}, D_{10})}$$

$$+B_2^+ \Phi_{(A_1, C_{12}, D_{10})}$$

$$+A_1^+ B_2^+ \Phi_{(C_{12}, D_{10})}$$

$$+C_{12}^+ D_{10}^+ \Phi_{(A_1, B_2)}$$

$$+A_1^+ C_{12}^+ D_{10}^+ \Phi_{(B_2,)}$$

$$+B_2^+ C_{12}^+ D_{10}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_2^+ C_{12}^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_2, C_{13}, D_7)} =$$

$$+A_1^+ \Phi_{(B_2, C_{13}, D_7)}$$

$$+B_2^+ \Phi_{(A_1, C_{13}, D_7)}$$

$$+A_1^+ B_2^+ \Phi_{(C_{13}, D_7)}$$

$$+C_{13}^+ D_7^+ \Phi_{(A_1, B_2)}$$

$$+A_1^+ C_{13}^+ D_7^+ \Phi_{(B_2,)}$$

$$+B_2^+ C_{13}^+ D_7^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_2^+ C_{13}^+ D_7^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_1, B_2, C_{13}, D_8)} = \\
&+ A_1^+ \Phi_{(B_2, C_{13}, D_8)} \\
&+ B_2^+ \Phi_{(A_1, C_{13}, D_8)} \\
&+ A_1^+ B_2^+ \Phi_{(C_{13}, D_8)} \\
&+ C_{13}^+ D_8^+ \Phi_{(A_1, B_2)} \\
&+ A_1^+ C_{13}^+ D_8^+ \Phi_{(B_2,)} \\
&+ B_2^+ C_{13}^+ D_8^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_2^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_2, C_{14}, D_7)} = \\
&+ A_1^+ \Phi_{(B_2, C_{14}, D_7)} \\
&+ B_2^+ \Phi_{(A_1, C_{14}, D_7)} \\
&+ A_1^+ B_2^+ \Phi_{(C_{14}, D_7)} \\
&+ C_{14}^+ D_7^+ \Phi_{(A_1, B_2)} \\
&+ A_1^+ C_{14}^+ D_7^+ \Phi_{(B_2,)} \\
&+ B_2^+ C_{14}^+ D_7^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_2^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_2, C_{14}, D_8)} = \\
&+ A_1^+ \Phi_{(B_2, C_{14}, D_8)} \\
&+ B_2^+ \Phi_{(A_1, C_{14}, D_8)} \\
&+ A_1^+ B_2^+ \Phi_{(C_{14}, D_8)} \\
&+ C_{14}^+ D_8^+ \Phi_{(A_1, B_2)} \\
&+ A_1^+ C_{14}^+ D_8^+ \Phi_{(B_2,)} \\
&+ B_2^+ C_{14}^+ D_8^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_2^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_2, C_{15}, D_6)} = \\
&+ A_1^+ \Phi_{(B_2, C_{15}, D_6)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_1, C_{15}, D_6)} \\
& +A_1^+ B_2^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_1, B_2)} \\
& +A_1^+ C_{15}^+ D_6^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{15}^+ D_6^+ \Phi_{(A_1,)} \\
& +A_1^+ B_2^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_1, D_1)} = \\
& +A_1^+ \Phi_{(B_3, C_1, D_1)} \\
& +B_3^+ \Phi_{(A_1, C_1, D_1)} \\
& +C_1^+ \Phi_{(A_1, B_3, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_3, C_1)} \\
& +A_1^+ B_3^+ \Phi_{(C_1, D_1)} \\
& +A_1^+ C_1^+ \Phi_{(B_3, D_1)} \\
& +A_1^+ D_1^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_1, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ D_1^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ B_3^+ C_1^+ \Phi_{(D_1,)} \\
& +A_1^+ B_3^+ D_1^+ \Phi_{(C_1,)} \\
& +A_1^+ C_1^+ D_1^+ \Phi_{(B_3,)} \\
& +B_3^+ C_1^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_1, D_2)} = \\
& +A_1^+ \Phi_{(B_3, C_1, D_2)} \\
& +B_3^+ \Phi_{(A_1, C_1, D_2)} \\
& +C_1^+ \Phi_{(A_1, B_3, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_3, C_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ B_3^+ \Phi_{(C_1, D_2)} \\
& +A_1^+ C_1^+ \Phi_{(B_3, D_2)} \\
& +A_1^+ D_2^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_1, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ D_2^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ B_3^+ C_1^+ \Phi_{(D_2,)} \\
& +A_1^+ B_3^+ D_2^+ \Phi_{(C_1,)} \\
& +A_1^+ C_1^+ D_2^+ \Phi_{(B_3,)} \\
& +B_3^+ C_1^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_1, D_3)} = \\
& +A_1^+ \Phi_{(B_3, C_1, D_3)} \\
& +B_3^+ \Phi_{(A_1, C_1, D_3)} \\
& +C_1^+ \Phi_{(A_1, B_3, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_3, C_1)} \\
& +A_1^+ B_3^+ \Phi_{(C_1, D_3)} \\
& +A_1^+ C_1^+ \Phi_{(B_3, D_3)} \\
& +A_1^+ D_3^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_1, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_1, C_1)} \\
& +C_1^+ D_3^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ B_3^+ C_1^+ \Phi_{(D_3,)} \\
& +A_1^+ B_3^+ D_3^+ \Phi_{(C_1,)} \\
& +A_1^+ C_1^+ D_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_1^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_2, D_1)} = \\
& + A_1^+ \Phi_{(B_3, C_2, D_1)} \\
& + B_3^+ \Phi_{(A_1, C_2, D_1)} \\
& + C_2^+ \Phi_{(A_1, B_3, D_1)} \\
& + D_1^+ \Phi_{(A_1, B_3, C_2)} \\
& + A_1^+ B_3^+ \Phi_{(C_2, D_1)} \\
& + A_1^+ C_2^+ \Phi_{(B_3, D_1)} \\
& + A_1^+ D_1^+ \Phi_{(B_3, C_2)} \\
& + B_3^+ C_2^+ \Phi_{(A_1, D_1)} \\
& + B_3^+ D_1^+ \Phi_{(A_1, C_2)} \\
& + C_2^+ D_1^+ \Phi_{(A_1, B_3)} \\
& + A_1^+ B_3^+ C_2^+ \Phi_{(D_1,)} \\
& + A_1^+ B_3^+ D_1^+ \Phi_{(C_2,)} \\
& + A_1^+ C_2^+ D_1^+ \Phi_{(B_3,)} \\
& + B_3^+ C_2^+ D_1^+ \Phi_{(A_1,)} \\
& + A_1^+ B_3^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_2, D_2)} = \\
& + A_1^+ \Phi_{(B_3, C_2, D_2)} \\
& + B_3^+ \Phi_{(A_1, C_2, D_2)} \\
& + C_2^+ \Phi_{(A_1, B_3, D_2)} \\
& + D_2^+ \Phi_{(A_1, B_3, C_2)} \\
& + A_1^+ B_3^+ \Phi_{(C_2, D_2)} \\
& + A_1^+ C_2^+ \Phi_{(B_3, D_2)} \\
& + A_1^+ D_2^+ \Phi_{(B_3, C_2)} \\
& + B_3^+ C_2^+ \Phi_{(A_1, D_2)} \\
& + B_3^+ D_2^+ \Phi_{(A_1, C_2)} \\
& + C_2^+ D_2^+ \Phi_{(A_1, B_3)} \\
& + A_1^+ B_3^+ C_2^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ B_3^+ D_2^+ \Phi_{(C_2,)} \\
& +A_1^+ C_2^+ D_2^+ \Phi_{(B_3,)} \\
& +B_3^+ C_2^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_2, D_3)} = \\
& +A_1^+ \Phi_{(B_3, C_2, D_3)} \\
& +B_3^+ \Phi_{(A_1, C_2, D_3)} \\
& +C_2^+ \Phi_{(A_1, B_3, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_3, C_2)} \\
& +A_1^+ B_3^+ \Phi_{(C_2, D_3)} \\
& +A_1^+ C_2^+ \Phi_{(B_3, D_3)} \\
& +A_1^+ D_3^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_1, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_1, C_2)} \\
& +C_2^+ D_3^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ B_3^+ C_2^+ \Phi_{(D_3,)} \\
& +A_1^+ B_3^+ D_3^+ \Phi_{(C_2,)} \\
& +A_1^+ C_2^+ D_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_2^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_3, D_1)} = \\
& +A_1^+ \Phi_{(B_3, C_3, D_1)} \\
& +B_3^+ \Phi_{(A_1, C_3, D_1)} \\
& +C_3^+ \Phi_{(A_1, B_3, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_3, C_3)} \\
& +A_1^+ B_3^+ \Phi_{(C_3, D_1)} \\
& +A_1^+ C_3^+ \Phi_{(B_3, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ D_1^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_1, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ D_1^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ B_3^+ C_3^+ \Phi_{(D_1,)} \\
& +A_1^+ B_3^+ D_1^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ D_1^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_3, D_2)} = \\
& +A_1^+ \Phi_{(B_3, C_3, D_2)} \\
& +B_3^+ \Phi_{(A_1, C_3, D_2)} \\
& +C_3^+ \Phi_{(A_1, B_3, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_3, C_3)} \\
& +A_1^+ B_3^+ \Phi_{(C_3, D_2)} \\
& +A_1^+ C_3^+ \Phi_{(B_3, D_2)} \\
& +A_1^+ D_2^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_1, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ D_2^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ B_3^+ C_3^+ \Phi_{(D_2,)} \\
& +A_1^+ B_3^+ D_2^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ D_2^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_3, D_3)} = \\
& +A_1^+ \Phi_{(B_3, C_3, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_1, C_3, D_3)} \\
& +C_3^+ \Phi_{(A_1, B_3, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_3, C_3)} \\
& +A_1^+ B_3^+ \Phi_{(C_3, D_3)} \\
& +A_1^+ C_3^+ \Phi_{(B_3, D_3)} \\
& +A_1^+ D_3^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_1, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_1, C_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ B_3^+ C_3^+ \Phi_{(D_3,)} \\
& +A_1^+ B_3^+ D_3^+ \Phi_{(C_3,)} \\
& +A_1^+ C_3^+ D_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_4, D_5)} = \\
& +A_1^+ \Phi_{(B_3, C_4, D_5)} \\
& +B_3^+ \Phi_{(A_1, C_4, D_5)} \\
& +A_1^+ B_3^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ C_4^+ D_5^+ \Phi_{(B_3,)} \\
& +B_3^+ C_4^+ D_5^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_5, D_4)} = \\
& +A_1^+ \Phi_{(B_3, C_5, D_4)} \\
& +B_3^+ \Phi_{(A_1, C_5, D_4)} \\
& +A_1^+ B_3^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_1, B_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ C_5^+ D_4^+ \Phi_{(B_3,)} \\
& +B_3^+ C_5^+ D_4^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_6, D_{15})} = \\
& +A_1^+ \Phi_{(B_3, C_6, D_{15})} \\
& +B_3^+ \Phi_{(A_1, C_6, D_{15})} \\
& +A_1^+ B_3^+ \Phi_{(C_6, D_{15})} \\
& +C_6^+ D_{15}^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ C_6^+ D_{15}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_6^+ D_{15}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_7, D_{13})} = \\
& +A_1^+ \Phi_{(B_3, C_7, D_{13})} \\
& +B_3^+ \Phi_{(A_1, C_7, D_{13})} \\
& +A_1^+ B_3^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ C_7^+ D_{13}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_7^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_7, D_{14})} = \\
& +A_1^+ \Phi_{(B_3, C_7, D_{14})} \\
& +B_3^+ \Phi_{(A_1, C_7, D_{14})} \\
& +A_1^+ B_3^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ C_7^+ D_{14}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_7^+ D_{14}^+ \Phi_{(A_1,)}
\end{aligned}$$

$$+A_1^+ B_3^+ C_7^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_3, C_8, D_{13})} =$$

$$+A_1^+ \Phi_{(B_3, C_8, D_{13})}$$

$$+B_3^+ \Phi_{(A_1, C_8, D_{13})}$$

$$+A_1^+ B_3^+ \Phi_{(C_8, D_{13})}$$

$$+C_8^+ D_{13}^+ \Phi_{(A_1, B_3)}$$

$$+A_1^+ C_8^+ D_{13}^+ \Phi_{(B_3,)}$$

$$+B_3^+ C_8^+ D_{13}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_3^+ C_8^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_3, C_8, D_{14})} =$$

$$+A_1^+ \Phi_{(B_3, C_8, D_{14})}$$

$$+B_3^+ \Phi_{(A_1, C_8, D_{14})}$$

$$+A_1^+ B_3^+ \Phi_{(C_8, D_{14})}$$

$$+C_8^+ D_{14}^+ \Phi_{(A_1, B_3)}$$

$$+A_1^+ C_8^+ D_{14}^+ \Phi_{(B_3,)}$$

$$+B_3^+ C_8^+ D_{14}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_3^+ C_8^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_3, C_9, D_{11})} =$$

$$+A_1^+ \Phi_{(B_3, C_9, D_{11})}$$

$$+B_3^+ \Phi_{(A_1, C_9, D_{11})}$$

$$+A_1^+ B_3^+ \Phi_{(C_9, D_{11})}$$

$$+C_9^+ D_{11}^+ \Phi_{(A_1, B_3)}$$

$$+A_1^+ C_9^+ D_{11}^+ \Phi_{(B_3,)}$$

$$+B_3^+ C_9^+ D_{11}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_3^+ C_9^+ D_{11}^+ \Phi_{()} \\$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_9, D_{12})} = \\
& + A_1^+ \Phi_{(B_3, C_9, D_{12})} \\
& + B_3^+ \Phi_{(A_1, C_9, D_{12})} \\
& + A_1^+ B_3^+ \Phi_{(C_9, D_{12})} \\
& + C_9^+ D_{12}^+ \Phi_{(A_1, B_3)} \\
& + A_1^+ C_9^+ D_{12}^+ \Phi_{(B_3,)} \\
& + B_3^+ C_9^+ D_{12}^+ \Phi_{(A_1,)} \\
& + A_1^+ B_3^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_{10}, D_{11})} = \\
& + A_1^+ \Phi_{(B_3, C_{10}, D_{11})} \\
& + B_3^+ \Phi_{(A_1, C_{10}, D_{11})} \\
& + A_1^+ B_3^+ \Phi_{(C_{10}, D_{11})} \\
& + C_{10}^+ D_{11}^+ \Phi_{(A_1, B_3)} \\
& + A_1^+ C_{10}^+ D_{11}^+ \Phi_{(B_3,)} \\
& + B_3^+ C_{10}^+ D_{11}^+ \Phi_{(A_1,)} \\
& + A_1^+ B_3^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_{10}, D_{12})} = \\
& + A_1^+ \Phi_{(B_3, C_{10}, D_{12})} \\
& + B_3^+ \Phi_{(A_1, C_{10}, D_{12})} \\
& + A_1^+ B_3^+ \Phi_{(C_{10}, D_{12})} \\
& + C_{10}^+ D_{12}^+ \Phi_{(A_1, B_3)} \\
& + A_1^+ C_{10}^+ D_{12}^+ \Phi_{(B_3,)} \\
& + B_3^+ C_{10}^+ D_{12}^+ \Phi_{(A_1,)} \\
& + A_1^+ B_3^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_{11}, D_9)} = \\
& + A_1^+ \Phi_{(B_3, C_{11}, D_9)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_1, C_{11}, D_9)} \\
& +A_1^+ B_3^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ C_{11}^+ D_9^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{11}^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_{11}, D_{10})} = \\
& +A_1^+ \Phi_{(B_3, C_{11}, D_{10})} \\
& +B_3^+ \Phi_{(A_1, C_{11}, D_{10})} \\
& +A_1^+ B_3^+ \Phi_{(C_{11}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ C_{11}^+ D_{10}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{11}^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_{12}, D_9)} = \\
& +A_1^+ \Phi_{(B_3, C_{12}, D_9)} \\
& +B_3^+ \Phi_{(A_1, C_{12}, D_9)} \\
& +A_1^+ B_3^+ \Phi_{(C_{12}, D_9)} \\
& +C_{12}^+ D_9^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ C_{12}^+ D_9^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{12}^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_3, C_{12}, D_{10})} = \\
& +A_1^+ \Phi_{(B_3, C_{12}, D_{10})} \\
& +B_3^+ \Phi_{(A_1, C_{12}, D_{10})} \\
& +A_1^+ B_3^+ \Phi_{(C_{12}, D_{10})}
\end{aligned}$$

$$\begin{aligned}
& +C_{12}^+D_{10}^+\Phi_{(A_1,B_3)} \\
& +A_1^+C_{12}^+D_{10}^+\Phi_{(B_3,)} \\
& +B_3^+C_{12}^+D_{10}^+\Phi_{(A_1,)} \\
& +A_1^+B_3^+C_{12}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_3,C_{13},D_7)} = \\
& +A_1^+\Phi_{(B_3,C_{13},D_7)} \\
& +B_3^+\Phi_{(A_1,C_{13},D_7)} \\
& +A_1^+B_3^+\Phi_{(C_{13},D_7)} \\
& +C_{13}^+D_7^+\Phi_{(A_1,B_3)} \\
& +A_1^+C_{13}^+D_7^+\Phi_{(B_3,)} \\
& +B_3^+C_{13}^+D_7^+\Phi_{(A_1,)} \\
& +A_1^+B_3^+C_{13}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_3,C_{13},D_8)} = \\
& +A_1^+\Phi_{(B_3,C_{13},D_8)} \\
& +B_3^+\Phi_{(A_1,C_{13},D_8)} \\
& +A_1^+B_3^+\Phi_{(C_{13},D_8)} \\
& +C_{13}^+D_8^+\Phi_{(A_1,B_3)} \\
& +A_1^+C_{13}^+D_8^+\Phi_{(B_3,)} \\
& +B_3^+C_{13}^+D_8^+\Phi_{(A_1,)} \\
& +A_1^+B_3^+C_{13}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_3,C_{14},D_7)} = \\
& +A_1^+\Phi_{(B_3,C_{14},D_7)} \\
& +B_3^+\Phi_{(A_1,C_{14},D_7)} \\
& +A_1^+B_3^+\Phi_{(C_{14},D_7)} \\
& +C_{14}^+D_7^+\Phi_{(A_1,B_3)} \\
& +A_1^+C_{14}^+D_7^+\Phi_{(B_3,)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ C_{14}^+ D_7^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_3, C_{14}, D_8)} = \\
& +A_1^+ \Phi_{(B_3, C_{14}, D_8)} \\
& +B_3^+ \Phi_{(A_1, C_{14}, D_8)} \\
& +A_1^+ B_3^+ \Phi_{(C_{14}, D_8)} \\
& +C_{14}^+ D_8^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ C_{14}^+ D_8^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{14}^+ D_8^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_3, C_{15}, D_6)} = \\
& +A_1^+ \Phi_{(B_3, C_{15}, D_6)} \\
& +B_3^+ \Phi_{(A_1, C_{15}, D_6)} \\
& +A_1^+ B_3^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_1, B_3)} \\
& +A_1^+ C_{15}^+ D_6^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{15}^+ D_6^+ \Phi_{(A_1,)} \\
& +A_1^+ B_3^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_4, C_1, D_5)} = \\
& +A_1^+ \Phi_{(B_4, C_1, D_5)} \\
& +C_1^+ \Phi_{(A_1, B_4, D_5)} \\
& +A_1^+ C_1^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_4^+ D_5^+ \Phi_{(C_1,)} \\
& +B_4^+ C_1^+ D_5^+ \Phi_{(A_1,)} \\
& +A_1^+ B_4^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_4, C_2, D_5)} = \\
& + A_1^+ \Phi_{(B_4, C_2, D_5)} \\
& + C_2^+ \Phi_{(A_1, B_4, D_5)} \\
& + A_1^+ C_2^+ \Phi_{(B_4, D_5)} \\
& + B_4^+ D_5^+ \Phi_{(A_1, C_2)} \\
& + A_1^+ B_4^+ D_5^+ \Phi_{(C_2,)} \\
& + B_4^+ C_2^+ D_5^+ \Phi_{(A_1,)} \\
& + A_1^+ B_4^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_4, C_3, D_5)} = \\
& + A_1^+ \Phi_{(B_4, C_3, D_5)} \\
& + C_3^+ \Phi_{(A_1, B_4, D_5)} \\
& + A_1^+ C_3^+ \Phi_{(B_4, D_5)} \\
& + B_4^+ D_5^+ \Phi_{(A_1, C_3)} \\
& + A_1^+ B_4^+ D_5^+ \Phi_{(C_3,)} \\
& + B_4^+ C_3^+ D_5^+ \Phi_{(A_1,)} \\
& + A_1^+ B_4^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_4, C_5, D_1)} = \\
& + A_1^+ \Phi_{(B_4, C_5, D_1)} \\
& + D_1^+ \Phi_{(A_1, B_4, C_5)} \\
& + A_1^+ D_1^+ \Phi_{(B_4, C_5)} \\
& + B_4^+ C_5^+ \Phi_{(A_1, D_1)} \\
& + A_1^+ B_4^+ C_5^+ \Phi_{(D_1,)} \\
& + B_4^+ C_5^+ D_1^+ \Phi_{(A_1,)} \\
& + A_1^+ B_4^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1, B_4, C_5, D_2)} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_4, C_5, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_4, C_5)} \\
& +A_1^+ D_2^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_1, D_2)} \\
& +A_1^+ B_4^+ C_5^+ \Phi_{(D_2,)} \\
& +B_4^+ C_5^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_4^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_4, C_5, D_3)} = \\
& +A_1^+ \Phi_{(B_4, C_5, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_4, C_5)} \\
& +A_1^+ D_3^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_1, D_3)} \\
& +A_1^+ B_4^+ C_5^+ \Phi_{(D_3,)} \\
& +B_4^+ C_5^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_4^+ C_5^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_4, C_9, D_{13})} = \\
& +A_1^+ \Phi_{(B_4, C_9, D_{13})} \\
& +B_4^+ C_9^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_4^+ C_9^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_4, C_9, D_{14})} = \\
& +A_1^+ \Phi_{(B_4, C_9, D_{14})} \\
& +B_4^+ C_9^+ D_{14}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_4^+ C_9^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_4, C_{10}, D_{13})} = \\
& +A_1^+ \Phi_{(B_4, C_{10}, D_{13})}
\end{aligned}$$

$$+B_4^+C_{10}^+D_{13}^+\Phi_{(A_1,)}$$

$$+A_1^+B_4^+C_{10}^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_1,B_4,C_{10},D_{14})} =$$

$$+A_1^+\Phi_{(B_4,C_{10},D_{14})}$$

$$+B_4^+C_{10}^+D_{14}^+\Phi_{(A_1,)}$$

$$+A_1^+B_4^+C_{10}^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_1,B_4,C_{13},D_9)} =$$

$$+A_1^+\Phi_{(B_4,C_{13},D_9)}$$

$$+B_4^+C_{13}^+D_9^+\Phi_{(A_1,)}$$

$$+A_1^+B_4^+C_{13}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_1,B_4,C_{13},D_{10})} =$$

$$+A_1^+\Phi_{(B_4,C_{13},D_{10})}$$

$$+B_4^+C_{13}^+D_{10}^+\Phi_{(A_1,)}$$

$$+A_1^+B_4^+C_{13}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_1,B_4,C_{14},D_9)} =$$

$$+A_1^+\Phi_{(B_4,C_{14},D_9)}$$

$$+B_4^+C_{14}^+D_9^+\Phi_{(A_1,)}$$

$$+A_1^+B_4^+C_{14}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_1,B_4,C_{14},D_{10})} =$$

$$+A_1^+\Phi_{(B_4,C_{14},D_{10})}$$

$$+B_4^+C_{14}^+D_{10}^+\Phi_{(A_1,)}$$

$$+A_1^+B_4^+C_{14}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_1,B_5,C_1,D_4)} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_5, C_1, D_4)} \\
& +C_1^+ \Phi_{(A_1, B_5, D_4)} \\
& +A_1^+ C_1^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_5^+ D_4^+ \Phi_{(C_1,)} \\
& +B_5^+ C_1^+ D_4^+ \Phi_{(A_1,)} \\
& +A_1^+ B_5^+ C_1^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_5, C_2, D_4)} = \\
& +A_1^+ \Phi_{(B_5, C_2, D_4)} \\
& +C_2^+ \Phi_{(A_1, B_5, D_4)} \\
& +A_1^+ C_2^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_1, C_2)} \\
& +A_1^+ B_5^+ D_4^+ \Phi_{(C_2,)} \\
& +B_5^+ C_2^+ D_4^+ \Phi_{(A_1,)} \\
& +A_1^+ B_5^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_5, C_3, D_4)} = \\
& +A_1^+ \Phi_{(B_5, C_3, D_4)} \\
& +C_3^+ \Phi_{(A_1, B_5, D_4)} \\
& +A_1^+ C_3^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_1, C_3)} \\
& +A_1^+ B_5^+ D_4^+ \Phi_{(C_3,)} \\
& +B_5^+ C_3^+ D_4^+ \Phi_{(A_1,)} \\
& +A_1^+ B_5^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_5, C_4, D_1)} = \\
& +A_1^+ \Phi_{(B_5, C_4, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_5, C_4)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ D_1^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_1, D_1)} \\
& +A_1^+ B_5^+ C_4^+ \Phi_{(D_1,)} \\
& +B_5^+ C_4^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_5^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_5, C_4, D_2)} = \\
& +A_1^+ \Phi_{(B_5, C_4, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_5, C_4)} \\
& +A_1^+ D_2^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_1, D_2)} \\
& +A_1^+ B_5^+ C_4^+ \Phi_{(D_2,)} \\
& +B_5^+ C_4^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_5^+ C_4^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_5, C_4, D_3)} = \\
& +A_1^+ \Phi_{(B_5, C_4, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_5, C_4)} \\
& +A_1^+ D_3^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_1, D_3)} \\
& +A_1^+ B_5^+ C_4^+ \Phi_{(D_3,)} \\
& +B_5^+ C_4^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_5^+ C_4^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_5, C_7, D_{11})} = \\
& +A_1^+ \Phi_{(B_5, C_7, D_{11})} \\
& +B_5^+ C_7^+ D_{11}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_5^+ C_7^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_5, C_7, D_{12})} = \\
&+ A_1^+ \Phi_{(B_5, C_7, D_{12})} \\
&+ B_5^+ C_7^+ D_{12}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_5^+ C_7^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_5, C_8, D_{11})} = \\
&+ A_1^+ \Phi_{(B_5, C_8, D_{11})} \\
&+ B_5^+ C_8^+ D_{11}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_5^+ C_8^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_5, C_8, D_{12})} = \\
&+ A_1^+ \Phi_{(B_5, C_8, D_{12})} \\
&+ B_5^+ C_8^+ D_{12}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_5^+ C_8^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_5, C_{11}, D_7)} = \\
&+ A_1^+ \Phi_{(B_5, C_{11}, D_7)} \\
&+ B_5^+ C_{11}^+ D_7^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_5^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_5, C_{11}, D_8)} = \\
&+ A_1^+ \Phi_{(B_5, C_{11}, D_8)} \\
&+ B_5^+ C_{11}^+ D_8^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_5^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_5, C_{12}, D_7)} = \\
&+ A_1^+ \Phi_{(B_5, C_{12}, D_7)} \\
&+ B_5^+ C_{12}^+ D_7^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_5^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_5, C_{12}, D_8)} = \\
&+ A_1^+ \Phi_{(B_5, C_{12}, D_8)} \\
&+ B_5^+ C_{12}^+ D_8^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_5^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_6, C_1, D_{15})} = \\
&+ A_1^+ \Phi_{(B_6, C_1, D_{15})} \\
&+ C_1^+ \Phi_{(A_1, B_6, D_{15})} \\
&+ A_1^+ C_1^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_1, C_1)} \\
&+ A_1^+ B_6^+ D_{15}^+ \Phi_{(C_1,)} \\
&+ B_6^+ C_1^+ D_{15}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_6^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_6, C_2, D_{15})} = \\
&+ A_1^+ \Phi_{(B_6, C_2, D_{15})} \\
&+ C_2^+ \Phi_{(A_1, B_6, D_{15})} \\
&+ A_1^+ C_2^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_1, C_2)} \\
&+ A_1^+ B_6^+ D_{15}^+ \Phi_{(C_2,)} \\
&+ B_6^+ C_2^+ D_{15}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_6^+ C_2^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_6, C_3, D_{15})} = \\
&+ A_1^+ \Phi_{(B_6, C_3, D_{15})} \\
&+ C_3^+ \Phi_{(A_1, B_6, D_{15})} \\
&+ A_1^+ C_3^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_1, C_3)}
\end{aligned}$$

$$+A_1^+ B_6^+ D_{15}^+ \Phi_{(C_3,)}$$

$$+B_6^+ C_3^+ D_{15}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_6^+ C_3^+ D_{15}^+ \Phi_{()}$$

$$\Phi_{(A_1, B_6, C_{11}, D_{13})} =$$

$$+A_1^+ \Phi_{(B_6, C_{11}, D_{13})}$$

$$+B_6^+ C_{11}^+ D_{13}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_6^+ C_{11}^+ D_{13}^+ \Phi_{()}$$

$$\Phi_{(A_1, B_6, C_{11}, D_{14})} =$$

$$+A_1^+ \Phi_{(B_6, C_{11}, D_{14})}$$

$$+B_6^+ C_{11}^+ D_{14}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_6^+ C_{11}^+ D_{14}^+ \Phi_{()}$$

$$\Phi_{(A_1, B_6, C_{12}, D_{13})} =$$

$$+A_1^+ \Phi_{(B_6, C_{12}, D_{13})}$$

$$+B_6^+ C_{12}^+ D_{13}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_6^+ C_{12}^+ D_{13}^+ \Phi_{()}$$

$$\Phi_{(A_1, B_6, C_{12}, D_{14})} =$$

$$+A_1^+ \Phi_{(B_6, C_{12}, D_{14})}$$

$$+B_6^+ C_{12}^+ D_{14}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_6^+ C_{12}^+ D_{14}^+ \Phi_{()}$$

$$\Phi_{(A_1, B_6, C_{13}, D_{11})} =$$

$$+A_1^+ \Phi_{(B_6, C_{13}, D_{11})}$$

$$+B_6^+ C_{13}^+ D_{11}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_6^+ C_{13}^+ D_{11}^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_1, B_6, C_{13}, D_{12})} = \\
&+ A_1^+ \Phi_{(B_6, C_{13}, D_{12})} \\
&+ B_6^+ C_{13}^+ D_{12}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_6^+ C_{13}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_6, C_{14}, D_{11})} = \\
&+ A_1^+ \Phi_{(B_6, C_{14}, D_{11})} \\
&+ B_6^+ C_{14}^+ D_{11}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_6^+ C_{14}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_6, C_{14}, D_{12})} = \\
&+ A_1^+ \Phi_{(B_6, C_{14}, D_{12})} \\
&+ B_6^+ C_{14}^+ D_{12}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_6^+ C_{14}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_6, C_{15}, D_1)} = \\
&+ A_1^+ \Phi_{(B_6, C_{15}, D_1)} \\
&+ D_1^+ \Phi_{(A_1, B_6, C_{15})} \\
&+ A_1^+ D_1^+ \Phi_{(B_6, C_{15})} \\
&+ B_6^+ C_{15}^+ \Phi_{(A_1, D_1)} \\
&+ A_1^+ B_6^+ C_{15}^+ \Phi_{(D_1,)} \\
&+ B_6^+ C_{15}^+ D_1^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_6^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_6, C_{15}, D_2)} = \\
&+ A_1^+ \Phi_{(B_6, C_{15}, D_2)} \\
&+ D_2^+ \Phi_{(A_1, B_6, C_{15})} \\
&+ A_1^+ D_2^+ \Phi_{(B_6, C_{15})} \\
&+ B_6^+ C_{15}^+ \Phi_{(A_1, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ B_6^+ C_{15}^+ \Phi_{(D_2,)} \\
& +B_6^+ C_{15}^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_6^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_6, C_{15}, D_3)} = \\
& +A_1^+ \Phi_{(B_6, C_{15}, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_6, C_{15})} \\
& +A_1^+ D_3^+ \Phi_{(B_6, C_{15})} \\
& +B_6^+ C_{15}^+ \Phi_{(A_1, D_3)} \\
& +A_1^+ B_6^+ C_{15}^+ \Phi_{(D_3,)} \\
& +B_6^+ C_{15}^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_6^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_7, C_1, D_{13})} = \\
& +A_1^+ \Phi_{(B_7, C_1, D_{13})} \\
& +C_1^+ \Phi_{(A_1, B_7, D_{13})} \\
& +A_1^+ C_1^+ \Phi_{(B_7, D_{13})} \\
& +B_7^+ D_{13}^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_7^+ D_{13}^+ \Phi_{(C_1,)} \\
& +B_7^+ C_1^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_7^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_7, C_1, D_{14})} = \\
& +A_1^+ \Phi_{(B_7, C_1, D_{14})} \\
& +C_1^+ \Phi_{(A_1, B_7, D_{14})} \\
& +A_1^+ C_1^+ \Phi_{(B_7, D_{14})} \\
& +B_7^+ D_{14}^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_7^+ D_{14}^+ \Phi_{(C_1,)} \\
& +B_7^+ C_1^+ D_{14}^+ \Phi_{(A_1,)}
\end{aligned}$$

$$+A_1^+ B_7^+ C_1^+ D_{14}^+ \Phi_{()}$$

$$\Phi_{(A_1, B_7, C_2, D_{13})} =$$

$$+A_1^+ \Phi_{(B_7, C_2, D_{13})}$$

$$+C_2^+ \Phi_{(A_1, B_7, D_{13})}$$

$$+A_1^+ C_2^+ \Phi_{(B_7, D_{13})}$$

$$+B_7^+ D_{13}^+ \Phi_{(A_1, C_2)}$$

$$+A_1^+ B_7^+ D_{13}^+ \Phi_{(C_2,)}$$

$$+B_7^+ C_2^+ D_{13}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_7^+ C_2^+ D_{13}^+ \Phi_{()}$$

$$\Phi_{(A_1, B_7, C_2, D_{14})} =$$

$$+A_1^+ \Phi_{(B_7, C_2, D_{14})}$$

$$+C_2^+ \Phi_{(A_1, B_7, D_{14})}$$

$$+A_1^+ C_2^+ \Phi_{(B_7, D_{14})}$$

$$+B_7^+ D_{14}^+ \Phi_{(A_1, C_2)}$$

$$+A_1^+ B_7^+ D_{14}^+ \Phi_{(C_2,)}$$

$$+B_7^+ C_2^+ D_{14}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_7^+ C_2^+ D_{14}^+ \Phi_{()}$$

$$\Phi_{(A_1, B_7, C_3, D_{13})} =$$

$$+A_1^+ \Phi_{(B_7, C_3, D_{13})}$$

$$+C_3^+ \Phi_{(A_1, B_7, D_{13})}$$

$$+A_1^+ C_3^+ \Phi_{(B_7, D_{13})}$$

$$+B_7^+ D_{13}^+ \Phi_{(A_1, C_3)}$$

$$+A_1^+ B_7^+ D_{13}^+ \Phi_{(C_3,)}$$

$$+B_7^+ C_3^+ D_{13}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_7^+ C_3^+ D_{13}^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_1, B_7, C_3, D_{14})} = \\
&+ A_1^+ \Phi_{(B_7, C_3, D_{14})} \\
&+ C_3^+ \Phi_{(A_1, B_7, D_{14})} \\
&+ A_1^+ C_3^+ \Phi_{(B_7, D_{14})} \\
&+ B_7^+ D_{14}^+ \Phi_{(A_1, C_3)} \\
&+ A_1^+ B_7^+ D_{14}^+ \Phi_{(C_3,)} \\
&+ B_7^+ C_3^+ D_{14}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_7^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_7, C_5, D_{11})} = \\
&+ A_1^+ \Phi_{(B_7, C_5, D_{11})} \\
&+ B_7^+ C_5^+ D_{11}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_7^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_7, C_5, D_{12})} = \\
&+ A_1^+ \Phi_{(B_7, C_5, D_{12})} \\
&+ B_7^+ C_5^+ D_{12}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_7^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_7, C_9, D_{15})} = \\
&+ A_1^+ \Phi_{(B_7, C_9, D_{15})} \\
&+ B_7^+ C_9^+ D_{15}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_7^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_7, C_{10}, D_{15})} = \\
&+ A_1^+ \Phi_{(B_7, C_{10}, D_{15})} \\
&+ B_7^+ C_{10}^+ D_{15}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_7^+ C_{10}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_7, C_{11}, D_5)} = \\
&+ A_1^+ \Phi_{(B_7, C_{11}, D_5)} \\
&+ B_7^+ C_{11}^+ D_5^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_7^+ C_{11}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_7, C_{12}, D_5)} = \\
&+ A_1^+ \Phi_{(B_7, C_{12}, D_5)} \\
&+ B_7^+ C_{12}^+ D_5^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_7^+ C_{12}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_7, C_{13}, D_1)} = \\
&+ A_1^+ \Phi_{(B_7, C_{13}, D_1)} \\
&+ D_1^+ \Phi_{(A_1, B_7, C_{13})} \\
&+ A_1^+ D_1^+ \Phi_{(B_7, C_{13})} \\
&+ B_7^+ C_{13}^+ \Phi_{(A_1, D_1)} \\
&+ A_1^+ B_7^+ C_{13}^+ \Phi_{(D_1,)} \\
&+ B_7^+ C_{13}^+ D_1^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_7^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_7, C_{13}, D_2)} = \\
&+ A_1^+ \Phi_{(B_7, C_{13}, D_2)} \\
&+ D_2^+ \Phi_{(A_1, B_7, C_{13})} \\
&+ A_1^+ D_2^+ \Phi_{(B_7, C_{13})} \\
&+ B_7^+ C_{13}^+ \Phi_{(A_1, D_2)} \\
&+ A_1^+ B_7^+ C_{13}^+ \Phi_{(D_2,)} \\
&+ B_7^+ C_{13}^+ D_2^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_7^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1, B_7, C_{13}, D_3)} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_7, C_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_7, C_{13})} \\
& +A_1^+ D_3^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_1, D_3)} \\
& +A_1^+ B_7^+ C_{13}^+ \Phi_{(D_3,)} \\
& +B_7^+ C_{13}^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_7^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_7, C_{14}, D_1)} = \\
& +A_1^+ \Phi_{(B_7, C_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_7, C_{14})} \\
& +A_1^+ D_1^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_1, D_1)} \\
& +A_1^+ B_7^+ C_{14}^+ \Phi_{(D_1,)} \\
& +B_7^+ C_{14}^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_7^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_7, C_{14}, D_2)} = \\
& +A_1^+ \Phi_{(B_7, C_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_7, C_{14})} \\
& +A_1^+ D_2^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_1, D_2)} \\
& +A_1^+ B_7^+ C_{14}^+ \Phi_{(D_2,)} \\
& +B_7^+ C_{14}^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_7^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_7, C_{14}, D_3)} = \\
& +A_1^+ \Phi_{(B_7, C_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_7, C_{14})}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ D_3^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_1, D_3)} \\
& +A_1^+ B_7^+ C_{14}^+ \Phi_{(D_3,)} \\
& +B_7^+ C_{14}^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_7^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_7, C_{15}, D_9)} = \\
& +A_1^+ \Phi_{(B_7, C_{15}, D_9)} \\
& +B_7^+ C_{15}^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_7^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_7, C_{15}, D_{10})} = \\
& +A_1^+ \Phi_{(B_7, C_{15}, D_{10})} \\
& +B_7^+ C_{15}^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_7^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_8, C_1, D_{13})} = \\
& +A_1^+ \Phi_{(B_8, C_1, D_{13})} \\
& +C_1^+ \Phi_{(A_1, B_8, D_{13})} \\
& +A_1^+ C_1^+ \Phi_{(B_8, D_{13})} \\
& +B_8^+ D_{13}^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_8^+ D_{13}^+ \Phi_{(C_1,)} \\
& +B_8^+ C_1^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_8^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_8, C_1, D_{14})} = \\
& +A_1^+ \Phi_{(B_8, C_1, D_{14})} \\
& +C_1^+ \Phi_{(A_1, B_8, D_{14})} \\
& +A_1^+ C_1^+ \Phi_{(B_8, D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +B_8^+ D_{14}^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_8^+ D_{14}^+ \Phi_{(C_1,)} \\
& +B_8^+ C_1^+ D_{14}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_8^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_8, C_2, D_{13})} = \\
& +A_1^+ \Phi_{(B_8, C_2, D_{13})} \\
& +C_2^+ \Phi_{(A_1, B_8, D_{13})} \\
& +A_1^+ C_2^+ \Phi_{(B_8, D_{13})} \\
& +B_8^+ D_{13}^+ \Phi_{(A_1, C_2)} \\
& +A_1^+ B_8^+ D_{13}^+ \Phi_{(C_2,)} \\
& +B_8^+ C_2^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_8^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_8, C_2, D_{14})} = \\
& +A_1^+ \Phi_{(B_8, C_2, D_{14})} \\
& +C_2^+ \Phi_{(A_1, B_8, D_{14})} \\
& +A_1^+ C_2^+ \Phi_{(B_8, D_{14})} \\
& +B_8^+ D_{14}^+ \Phi_{(A_1, C_2)} \\
& +A_1^+ B_8^+ D_{14}^+ \Phi_{(C_2,)} \\
& +B_8^+ C_2^+ D_{14}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_8^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_8, C_3, D_{13})} = \\
& +A_1^+ \Phi_{(B_8, C_3, D_{13})} \\
& +C_3^+ \Phi_{(A_1, B_8, D_{13})} \\
& +A_1^+ C_3^+ \Phi_{(B_8, D_{13})} \\
& +B_8^+ D_{13}^+ \Phi_{(A_1, C_3)} \\
& +A_1^+ B_8^+ D_{13}^+ \Phi_{(C_3,)}
\end{aligned}$$

$$\begin{aligned}
& +B_8^+ C_3^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_8^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_8, C_3, D_{14})} = \\
& +A_1^+ \Phi_{(B_8, C_3, D_{14})} \\
& +C_3^+ \Phi_{(A_1, B_8, D_{14})} \\
& +A_1^+ C_3^+ \Phi_{(B_8, D_{14})} \\
& +B_8^+ D_{14}^+ \Phi_{(A_1, C_3)} \\
& +A_1^+ B_8^+ D_{14}^+ \Phi_{(C_3,)} \\
& +B_8^+ C_3^+ D_{14}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_8^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_8, C_5, D_{11})} = \\
& +A_1^+ \Phi_{(B_8, C_5, D_{11})} \\
& +B_8^+ C_5^+ D_{11}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_8^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_8, C_5, D_{12})} = \\
& +A_1^+ \Phi_{(B_8, C_5, D_{12})} \\
& +B_8^+ C_5^+ D_{12}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_8^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_8, C_9, D_{15})} = \\
& +A_1^+ \Phi_{(B_8, C_9, D_{15})} \\
& +B_8^+ C_9^+ D_{15}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_8^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1, B_8, C_{10}, D_{15})} = \\
& +A_1^+ \Phi_{(B_8, C_{10}, D_{15})}
\end{aligned}$$

$$+B_8^+ C_{10}^+ D_{15}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_8^+ C_{10}^+ D_{15}^+ \Phi_{()}$$

$$\Phi_{(A_1, B_8, C_{11}, D_5)} =$$

$$+A_1^+ \Phi_{(B_8, C_{11}, D_5)}$$

$$+B_8^+ C_{11}^+ D_5^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_8^+ C_{11}^+ D_5^+ \Phi_{()}$$

$$\Phi_{(A_1, B_8, C_{12}, D_5)} =$$

$$+A_1^+ \Phi_{(B_8, C_{12}, D_5)}$$

$$+B_8^+ C_{12}^+ D_5^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_8^+ C_{12}^+ D_5^+ \Phi_{()}$$

$$\Phi_{(A_1, B_8, C_{13}, D_1)} =$$

$$+A_1^+ \Phi_{(B_8, C_{13}, D_1)}$$

$$+D_1^+ \Phi_{(A_1, B_8, C_{13})}$$

$$+A_1^+ D_1^+ \Phi_{(B_8, C_{13})}$$

$$+B_8^+ C_{13}^+ \Phi_{(A_1, D_1)}$$

$$+A_1^+ B_8^+ C_{13}^+ \Phi_{(D_1,)}$$

$$+B_8^+ C_{13}^+ D_1^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_8^+ C_{13}^+ D_1^+ \Phi_{()}$$

$$\Phi_{(A_1, B_8, C_{13}, D_2)} =$$

$$+A_1^+ \Phi_{(B_8, C_{13}, D_2)}$$

$$+D_2^+ \Phi_{(A_1, B_8, C_{13})}$$

$$+A_1^+ D_2^+ \Phi_{(B_8, C_{13})}$$

$$+B_8^+ C_{13}^+ \Phi_{(A_1, D_2)}$$

$$+A_1^+ B_8^+ C_{13}^+ \Phi_{(D_2,)}$$

$$+B_8^+ C_{13}^+ D_2^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_8^+ C_{13}^+ D_2^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_1, B_8, C_{13}, D_3)} = \\
&+A_1^+ \Phi_{(B_8, C_{13}, D_3)} \\
&+D_3^+ \Phi_{(A_1, B_8, C_{13})} \\
&+A_1^+ D_3^+ \Phi_{(B_8, C_{13})} \\
&+B_8^+ C_{13}^+ \Phi_{(A_1, D_3)} \\
&+A_1^+ B_8^+ C_{13}^+ \Phi_{(D_3,)} \\
&+B_8^+ C_{13}^+ D_3^+ \Phi_{(A_1,)} \\
&+A_1^+ B_8^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_8, C_{14}, D_1)} = \\
&+A_1^+ \Phi_{(B_8, C_{14}, D_1)} \\
&+D_1^+ \Phi_{(A_1, B_8, C_{14})} \\
&+A_1^+ D_1^+ \Phi_{(B_8, C_{14})} \\
&+B_8^+ C_{14}^+ \Phi_{(A_1, D_1)} \\
&+A_1^+ B_8^+ C_{14}^+ \Phi_{(D_1,)} \\
&+B_8^+ C_{14}^+ D_1^+ \Phi_{(A_1,)} \\
&+A_1^+ B_8^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_8, C_{14}, D_2)} = \\
&+A_1^+ \Phi_{(B_8, C_{14}, D_2)} \\
&+D_2^+ \Phi_{(A_1, B_8, C_{14})} \\
&+A_1^+ D_2^+ \Phi_{(B_8, C_{14})} \\
&+B_8^+ C_{14}^+ \Phi_{(A_1, D_2)} \\
&+A_1^+ B_8^+ C_{14}^+ \Phi_{(D_2,)} \\
&+B_8^+ C_{14}^+ D_2^+ \Phi_{(A_1,)} \\
&+A_1^+ B_8^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_8, C_{14}, D_3)} = \\
&+ A_1^+ \Phi_{(B_8, C_{14}, D_3)} \\
&+ D_3^+ \Phi_{(A_1, B_8, C_{14})} \\
&+ A_1^+ D_3^+ \Phi_{(B_8, C_{14})} \\
&+ B_8^+ C_{14}^+ \Phi_{(A_1, D_3)} \\
&+ A_1^+ B_8^+ C_{14}^+ \Phi_{(D_3,)} \\
&+ B_8^+ C_{14}^+ D_3^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_8^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_8, C_{15}, D_9)} = \\
&+ A_1^+ \Phi_{(B_8, C_{15}, D_9)} \\
&+ B_8^+ C_{15}^+ D_9^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_8^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_8, C_{15}, D_{10})} = \\
&+ A_1^+ \Phi_{(B_8, C_{15}, D_{10})} \\
&+ B_8^+ C_{15}^+ D_{10}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_8^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_9, C_1, D_{11})} = \\
&+ A_1^+ \Phi_{(B_9, C_1, D_{11})} \\
&+ C_1^+ \Phi_{(A_1, B_9, D_{11})} \\
&+ A_1^+ C_1^+ \Phi_{(B_9, D_{11})} \\
&+ B_9^+ D_{11}^+ \Phi_{(A_1, C_1)} \\
&+ A_1^+ B_9^+ D_{11}^+ \Phi_{(C_1,)} \\
&+ B_9^+ C_1^+ D_{11}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_9^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1, B_9, C_1, D_{12})} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_9, C_1, D_{12})} \\
& +C_1^+ \Phi_{(A_1, B_9, D_{12})} \\
& +A_1^+ C_1^+ \Phi_{(B_9, D_{12})} \\
& +B_9^+ D_{12}^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_9^+ D_{12}^+ \Phi_{(C_1,)} \\
& +B_9^+ C_1^+ D_{12}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_2, D_{11})} = \\
& +A_1^+ \Phi_{(B_9, C_2, D_{11})} \\
& +C_2^+ \Phi_{(A_1, B_9, D_{11})} \\
& +A_1^+ C_2^+ \Phi_{(B_9, D_{11})} \\
& +B_9^+ D_{11}^+ \Phi_{(A_1, C_2)} \\
& +A_1^+ B_9^+ D_{11}^+ \Phi_{(C_2,)} \\
& +B_9^+ C_2^+ D_{11}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_2, D_{12})} = \\
& +A_1^+ \Phi_{(B_9, C_2, D_{12})} \\
& +C_2^+ \Phi_{(A_1, B_9, D_{12})} \\
& +A_1^+ C_2^+ \Phi_{(B_9, D_{12})} \\
& +B_9^+ D_{12}^+ \Phi_{(A_1, C_2)} \\
& +A_1^+ B_9^+ D_{12}^+ \Phi_{(C_2,)} \\
& +B_9^+ C_2^+ D_{12}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_3, D_{11})} = \\
& +A_1^+ \Phi_{(B_9, C_3, D_{11})} \\
& +C_3^+ \Phi_{(A_1, B_9, D_{11})}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ C_3^+ \Phi_{(B_9, D_{11})} \\
& +B_9^+ D_{11}^+ \Phi_{(A_1, C_3)} \\
& +A_1^+ B_9^+ D_{11}^+ \Phi_{(C_3,)} \\
& +B_9^+ C_3^+ D_{11}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_3, D_{12})} = \\
& +A_1^+ \Phi_{(B_9, C_3, D_{12})} \\
& +C_3^+ \Phi_{(A_1, B_9, D_{12})} \\
& +A_1^+ C_3^+ \Phi_{(B_9, D_{12})} \\
& +B_9^+ D_{12}^+ \Phi_{(A_1, C_3)} \\
& +A_1^+ B_9^+ D_{12}^+ \Phi_{(C_3,)} \\
& +B_9^+ C_3^+ D_{12}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_4, D_{13})} = \\
& +A_1^+ \Phi_{(B_9, C_4, D_{13})} \\
& +B_9^+ C_4^+ D_{13}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_4, D_{14})} = \\
& +A_1^+ \Phi_{(B_9, C_4, D_{14})} \\
& +B_9^+ C_4^+ D_{14}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_7, D_{15})} = \\
& +A_1^+ \Phi_{(B_9, C_7, D_{15})} \\
& +B_9^+ C_7^+ D_{15}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_9, C_8, D_{15})} = \\
&+ A_1^+ \Phi_{(B_9, C_8, D_{15})} \\
&+ B_9^+ C_8^+ D_{15}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_9^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_9, C_{11}, D_1)} = \\
&+ A_1^+ \Phi_{(B_9, C_{11}, D_1)} \\
&+ D_1^+ \Phi_{(A_1, B_9, C_{11})} \\
&+ A_1^+ D_1^+ \Phi_{(B_9, C_{11})} \\
&+ B_9^+ C_{11}^+ \Phi_{(A_1, D_1)} \\
&+ A_1^+ B_9^+ C_{11}^+ \Phi_{(D_1,)} \\
&+ B_9^+ C_{11}^+ D_1^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_9^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_9, C_{11}, D_2)} = \\
&+ A_1^+ \Phi_{(B_9, C_{11}, D_2)} \\
&+ D_2^+ \Phi_{(A_1, B_9, C_{11})} \\
&+ A_1^+ D_2^+ \Phi_{(B_9, C_{11})} \\
&+ B_9^+ C_{11}^+ \Phi_{(A_1, D_2)} \\
&+ A_1^+ B_9^+ C_{11}^+ \Phi_{(D_2,)} \\
&+ B_9^+ C_{11}^+ D_2^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_9^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_9, C_{11}, D_3)} = \\
&+ A_1^+ \Phi_{(B_9, C_{11}, D_3)} \\
&+ D_3^+ \Phi_{(A_1, B_9, C_{11})} \\
&+ A_1^+ D_3^+ \Phi_{(B_9, C_{11})} \\
&+ B_9^+ C_{11}^+ \Phi_{(A_1, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ B_9^+ C_{11}^+ \Phi_{(D_3,)} \\
& +B_9^+ C_{11}^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_{12}, D_1)} = \\
& +A_1^+ \Phi_{(B_9, C_{12}, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_9, C_{12})} \\
& +A_1^+ D_1^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_1, D_1)} \\
& +A_1^+ B_9^+ C_{12}^+ \Phi_{(D_1,)} \\
& +B_9^+ C_{12}^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_{12}, D_2)} = \\
& +A_1^+ \Phi_{(B_9, C_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_9, C_{12})} \\
& +A_1^+ D_2^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_1, D_2)} \\
& +A_1^+ B_9^+ C_{12}^+ \Phi_{(D_2,)} \\
& +B_9^+ C_{12}^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_9^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_9, C_{12}, D_3)} = \\
& +A_1^+ \Phi_{(B_9, C_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_9, C_{12})} \\
& +A_1^+ D_3^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_1, D_3)} \\
& +A_1^+ B_9^+ C_{12}^+ \Phi_{(D_3,)} \\
& +B_9^+ C_{12}^+ D_3^+ \Phi_{(A_1,)}
\end{aligned}$$

$$+A_1^+ B_9^+ C_{12}^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_9, C_{13}, D_4)} =$$

$$+A_1^+ \Phi_{(B_9, C_{13}, D_4)} \\$$

$$+B_9^+ C_{13}^+ D_4^+ \Phi_{(A_1,)} \\$$

$$+A_1^+ B_9^+ C_{13}^+ D_4^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_9, C_{14}, D_4)} =$$

$$+A_1^+ \Phi_{(B_9, C_{14}, D_4)} \\$$

$$+B_9^+ C_{14}^+ D_4^+ \Phi_{(A_1,)} \\$$

$$+A_1^+ B_9^+ C_{14}^+ D_4^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_9, C_{15}, D_7)} =$$

$$+A_1^+ \Phi_{(B_9, C_{15}, D_7)} \\$$

$$+B_9^+ C_{15}^+ D_7^+ \Phi_{(A_1,)} \\$$

$$+A_1^+ B_9^+ C_{15}^+ D_7^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_9, C_{15}, D_8)} =$$

$$+A_1^+ \Phi_{(B_9, C_{15}, D_8)} \\$$

$$+B_9^+ C_{15}^+ D_8^+ \Phi_{(A_1,)} \\$$

$$+A_1^+ B_9^+ C_{15}^+ D_8^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{10}, C_1, D_{11})} =$$

$$+A_1^+ \Phi_{(B_{10}, C_1, D_{11})} \\$$

$$+C_1^+ \Phi_{(A_1, B_{10}, D_{11})} \\$$

$$+A_1^+ C_1^+ \Phi_{(B_{10}, D_{11})} \\$$

$$+B_{10}^+ D_{11}^+ \Phi_{(A_1, C_1)} \\$$

$$+A_1^+ B_{10}^+ D_{11}^+ \Phi_{(C_1,)} \\$$

$$+B_{10}^+ C_1^+ D_{11}^+ \Phi_{(A_1,)} \\$$

$$+A_1^+ B_{10}^+ C_1^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{10}, C_1, D_{12})} =$$

$$+A_1^+ \Phi_{(B_{10}, C_1, D_{12})}$$

$$+C_1^+ \Phi_{(A_1, B_{10}, D_{12})}$$

$$+A_1^+ C_1^+ \Phi_{(B_{10}, D_{12})}$$

$$+B_{10}^+ D_{12}^+ \Phi_{(A_1, C_1)}$$

$$+A_1^+ B_{10}^+ D_{12}^+ \Phi_{(C_1,)}$$

$$+B_{10}^+ C_1^+ D_{12}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{10}^+ C_1^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{10}, C_2, D_{11})} =$$

$$+A_1^+ \Phi_{(B_{10}, C_2, D_{11})}$$

$$+C_2^+ \Phi_{(A_1, B_{10}, D_{11})}$$

$$+A_1^+ C_2^+ \Phi_{(B_{10}, D_{11})}$$

$$+B_{10}^+ D_{11}^+ \Phi_{(A_1, C_2)}$$

$$+A_1^+ B_{10}^+ D_{11}^+ \Phi_{(C_2,)}$$

$$+B_{10}^+ C_2^+ D_{11}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{10}^+ C_2^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{10}, C_2, D_{12})} =$$

$$+A_1^+ \Phi_{(B_{10}, C_2, D_{12})}$$

$$+C_2^+ \Phi_{(A_1, B_{10}, D_{12})}$$

$$+A_1^+ C_2^+ \Phi_{(B_{10}, D_{12})}$$

$$+B_{10}^+ D_{12}^+ \Phi_{(A_1, C_2)}$$

$$+A_1^+ B_{10}^+ D_{12}^+ \Phi_{(C_2,)}$$

$$+B_{10}^+ C_2^+ D_{12}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{10}^+ C_2^+ D_{12}^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_1, B_{10}, C_3, D_{11})} = \\
&+ A_1^+ \Phi_{(B_{10}, C_3, D_{11})} \\
&+ C_3^+ \Phi_{(A_1, B_{10}, D_{11})} \\
&+ A_1^+ C_3^+ \Phi_{(B_{10}, D_{11})} \\
&+ B_{10}^+ D_{11}^+ \Phi_{(A_1, C_3)} \\
&+ A_1^+ B_{10}^+ D_{11}^+ \Phi_{(C_3,)} \\
&+ B_{10}^+ C_3^+ D_{11}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{10}^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{10}, C_3, D_{12})} = \\
&+ A_1^+ \Phi_{(B_{10}, C_3, D_{12})} \\
&+ C_3^+ \Phi_{(A_1, B_{10}, D_{12})} \\
&+ A_1^+ C_3^+ \Phi_{(B_{10}, D_{12})} \\
&+ B_{10}^+ D_{12}^+ \Phi_{(A_1, C_3)} \\
&+ A_1^+ B_{10}^+ D_{12}^+ \Phi_{(C_3,)} \\
&+ B_{10}^+ C_3^+ D_{12}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{10}^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{10}, C_4, D_{13})} = \\
&+ A_1^+ \Phi_{(B_{10}, C_4, D_{13})} \\
&+ B_{10}^+ C_4^+ D_{13}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{10}^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{10}, C_4, D_{14})} = \\
&+ A_1^+ \Phi_{(B_{10}, C_4, D_{14})} \\
&+ B_{10}^+ C_4^+ D_{14}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{10}^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1, B_{10}, C_7, D_{15})} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_{10}, C_7, D_{15})} \\
& +B_{10}^+ C_7^+ D_{15}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{10}^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{10}, C_8, D_{15})} = \\
& +A_1^+ \Phi_{(B_{10}, C_8, D_{15})} \\
& +B_{10}^+ C_8^+ D_{15}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{10}^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{10}, C_{11}, D_1)} = \\
& +A_1^+ \Phi_{(B_{10}, C_{11}, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_{10}, C_{11})} \\
& +A_1^+ D_1^+ \Phi_{(B_{10}, C_{11})} \\
& +B_{10}^+ C_{11}^+ \Phi_{(A_1, D_1)} \\
& +A_1^+ B_{10}^+ C_{11}^+ \Phi_{(D_1,)} \\
& +B_{10}^+ C_{11}^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{10}^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{10}, C_{11}, D_2)} = \\
& +A_1^+ \Phi_{(B_{10}, C_{11}, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_{10}, C_{11})} \\
& +A_1^+ D_2^+ \Phi_{(B_{10}, C_{11})} \\
& +B_{10}^+ C_{11}^+ \Phi_{(A_1, D_2)} \\
& +A_1^+ B_{10}^+ C_{11}^+ \Phi_{(D_2,)} \\
& +B_{10}^+ C_{11}^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{10}^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{10}, C_{11}, D_3)} = \\
& +A_1^+ \Phi_{(B_{10}, C_{11}, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +D_3^+ \Phi_{(A_1, B_{10}, C_{11})} \\
& +A_1^+ D_3^+ \Phi_{(B_{10}, C_{11})} \\
& +B_{10}^+ C_{11}^+ \Phi_{(A_1, D_3)} \\
& +A_1^+ B_{10}^+ C_{11}^+ \Phi_{(D_3,)} \\
& +B_{10}^+ C_{11}^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{10}^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{10}, C_{12}, D_1)} = \\
& +A_1^+ \Phi_{(B_{10}, C_{12}, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_{10}, C_{12})} \\
& +A_1^+ D_1^+ \Phi_{(B_{10}, C_{12})} \\
& +B_{10}^+ C_{12}^+ \Phi_{(A_1, D_1)} \\
& +A_1^+ B_{10}^+ C_{12}^+ \Phi_{(D_1,)} \\
& +B_{10}^+ C_{12}^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{10}^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{10}, C_{12}, D_2)} = \\
& +A_1^+ \Phi_{(B_{10}, C_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_{10}, C_{12})} \\
& +A_1^+ D_2^+ \Phi_{(B_{10}, C_{12})} \\
& +B_{10}^+ C_{12}^+ \Phi_{(A_1, D_2)} \\
& +A_1^+ B_{10}^+ C_{12}^+ \Phi_{(D_2,)} \\
& +B_{10}^+ C_{12}^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{10}^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{10}, C_{12}, D_3)} = \\
& +A_1^+ \Phi_{(B_{10}, C_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_{10}, C_{12})} \\
& +A_1^+ D_3^+ \Phi_{(B_{10}, C_{12})}
\end{aligned}$$

$$\begin{aligned}
& +B_{10}^+C_{12}^+\Phi_{(A_1,D_3)} \\
& +A_1^+B_{10}^+C_{12}^+\Phi_{(D_3,)} \\
& +B_{10}^+C_{12}^+D_3^+\Phi_{(A_1,)} \\
& +A_1^+B_{10}^+C_{12}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{10},C_{13},D_4)} = \\
& +A_1^+\Phi_{(B_{10},C_{13},D_4)} \\
& +B_{10}^+C_{13}^+D_4^+\Phi_{(A_1,)} \\
& +A_1^+B_{10}^+C_{13}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{10},C_{14},D_4)} = \\
& +A_1^+\Phi_{(B_{10},C_{14},D_4)} \\
& +B_{10}^+C_{14}^+D_4^+\Phi_{(A_1,)} \\
& +A_1^+B_{10}^+C_{14}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{10},C_{15},D_7)} = \\
& +A_1^+\Phi_{(B_{10},C_{15},D_7)} \\
& +B_{10}^+C_{15}^+D_7^+\Phi_{(A_1,)} \\
& +A_1^+B_{10}^+C_{15}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{10},C_{15},D_8)} = \\
& +A_1^+\Phi_{(B_{10},C_{15},D_8)} \\
& +B_{10}^+C_{15}^+D_8^+\Phi_{(A_1,)} \\
& +A_1^+B_{10}^+C_{15}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{11},C_1,D_9)} = \\
& +A_1^+\Phi_{(B_{11},C_1,D_9)} \\
& +C_1^+\Phi_{(A_1,B_{11},D_9)} \\
& +A_1^+C_1^+\Phi_{(B_{11},D_9)}
\end{aligned}$$

$$\begin{aligned}
& +B_{11}^+ D_9^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_{11}^+ D_9^+ \Phi_{(C_1,)} \\
& +B_{11}^+ C_1^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{11}^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{11}, C_1, D_{10})} = \\
& +A_1^+ \Phi_{(B_{11}, C_1, D_{10})} \\
& +C_1^+ \Phi_{(A_1, B_{11}, D_{10})} \\
& +A_1^+ C_1^+ \Phi_{(B_{11}, D_{10})} \\
& +B_{11}^+ D_{10}^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_{11}^+ D_{10}^+ \Phi_{(C_1,)} \\
& +B_{11}^+ C_1^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{11}^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{11}, C_2, D_9)} = \\
& +A_1^+ \Phi_{(B_{11}, C_2, D_9)} \\
& +C_2^+ \Phi_{(A_1, B_{11}, D_9)} \\
& +A_1^+ C_2^+ \Phi_{(B_{11}, D_9)} \\
& +B_{11}^+ D_9^+ \Phi_{(A_1, C_2)} \\
& +A_1^+ B_{11}^+ D_9^+ \Phi_{(C_2,)} \\
& +B_{11}^+ C_2^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{11}^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{11}, C_2, D_{10})} = \\
& +A_1^+ \Phi_{(B_{11}, C_2, D_{10})} \\
& +C_2^+ \Phi_{(A_1, B_{11}, D_{10})} \\
& +A_1^+ C_2^+ \Phi_{(B_{11}, D_{10})} \\
& +B_{11}^+ D_{10}^+ \Phi_{(A_1, C_2)} \\
& +A_1^+ B_{11}^+ D_{10}^+ \Phi_{(C_2,)}
\end{aligned}$$

$$+B_{11}^+C_2^+D_{10}^+\Phi_{(A_1,)}$$

$$+A_1^+B_{11}^+C_2^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_1,B_{11},C_3,D_9)} =$$

$$+A_1^+\Phi_{(B_{11},C_3,D_9)}$$

$$+C_3^+\Phi_{(A_1,B_{11},D_9)}$$

$$+A_1^+C_3^+\Phi_{(B_{11},D_9)}$$

$$+B_{11}^+D_9^+\Phi_{(A_1,C_3)}$$

$$+A_1^+B_{11}^+D_9^+\Phi_{(C_3,)}$$

$$+B_{11}^+C_3^+D_9^+\Phi_{(A_1,)}$$

$$+A_1^+B_{11}^+C_3^+D_9^+\Phi_{()}$$

$$\Phi_{(A_1,B_{11},C_3,D_{10})} =$$

$$+A_1^+\Phi_{(B_{11},C_3,D_{10})}$$

$$+C_3^+\Phi_{(A_1,B_{11},D_{10})}$$

$$+A_1^+C_3^+\Phi_{(B_{11},D_{10})}$$

$$+B_{11}^+D_{10}^+\Phi_{(A_1,C_3)}$$

$$+A_1^+B_{11}^+D_{10}^+\Phi_{(C_3,)}$$

$$+B_{11}^+C_3^+D_{10}^+\Phi_{(A_1,)}$$

$$+A_1^+B_{11}^+C_3^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_1,B_{11},C_5,D_7)} =$$

$$+A_1^+\Phi_{(B_{11},C_5,D_7)}$$

$$+B_{11}^+C_5^+D_7^+\Phi_{(A_1,)}$$

$$+A_1^+B_{11}^+C_5^+D_7^+\Phi_{()}$$

$$\Phi_{(A_1,B_{11},C_5,D_8)} =$$

$$+A_1^+\Phi_{(B_{11},C_5,D_8)}$$

$$+B_{11}^+C_5^+D_8^+\Phi_{(A_1,)}$$

$$+A_1^+ B_{11}^+ C_5^+ D_8^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{11}, C_6, D_{13})} =$$

$$+A_1^+ \Phi_{(B_{11}, C_6, D_{13})}$$

$$+B_{11}^+ C_6^+ D_{13}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{11}^+ C_6^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{11}, C_6, D_{14})} =$$

$$+A_1^+ \Phi_{(B_{11}, C_6, D_{14})}$$

$$+B_{11}^+ C_6^+ D_{14}^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{11}^+ C_6^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{11}, C_7, D_5)} =$$

$$+A_1^+ \Phi_{(B_{11}, C_7, D_5)}$$

$$+B_{11}^+ C_7^+ D_5^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{11}^+ C_7^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{11}, C_8, D_5)} =$$

$$+A_1^+ \Phi_{(B_{11}, C_8, D_5)}$$

$$+B_{11}^+ C_8^+ D_5^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{11}^+ C_8^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{11}, C_9, D_1)} =$$

$$+A_1^+ \Phi_{(B_{11}, C_9, D_1)}$$

$$+D_1^+ \Phi_{(A_1, B_{11}, C_9)}$$

$$+A_1^+ D_1^+ \Phi_{(B_{11}, C_9)}$$

$$+B_{11}^+ C_9^+ \Phi_{(A_1, D_1)}$$

$$+A_1^+ B_{11}^+ C_9^+ \Phi_{(D_1,)}$$

$$+B_{11}^+ C_9^+ D_1^+ \Phi_{(A_1,)} \\$$

$$+A_1^+ B_{11}^+ C_9^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{11}, C_9, D_2)} =$$

$$+A_1^+ \Phi_{(B_{11}, C_9, D_2)}$$

$$+D_2^+ \Phi_{(A_1, B_{11}, C_9)}$$

$$+A_1^+ D_2^+ \Phi_{(B_{11}, C_9)}$$

$$+B_{11}^+ C_9^+ \Phi_{(A_1, D_2)}$$

$$+A_1^+ B_{11}^+ C_9^+ \Phi_{(D_2,)}$$

$$+B_{11}^+ C_9^+ D_2^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{11}^+ C_9^+ D_2^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{11}, C_9, D_3)} =$$

$$+A_1^+ \Phi_{(B_{11}, C_9, D_3)}$$

$$+D_3^+ \Phi_{(A_1, B_{11}, C_9)}$$

$$+A_1^+ D_3^+ \Phi_{(B_{11}, C_9)}$$

$$+B_{11}^+ C_9^+ \Phi_{(A_1, D_3)}$$

$$+A_1^+ B_{11}^+ C_9^+ \Phi_{(D_3,)}$$

$$+B_{11}^+ C_9^+ D_3^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{11}^+ C_9^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_1, B_{11}, C_{10}, D_1)} =$$

$$+A_1^+ \Phi_{(B_{11}, C_{10}, D_1)}$$

$$+D_1^+ \Phi_{(A_1, B_{11}, C_{10})}$$

$$+A_1^+ D_1^+ \Phi_{(B_{11}, C_{10})}$$

$$+B_{11}^+ C_{10}^+ \Phi_{(A_1, D_1)}$$

$$+A_1^+ B_{11}^+ C_{10}^+ \Phi_{(D_1,)}$$

$$+B_{11}^+ C_{10}^+ D_1^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{11}^+ C_{10}^+ D_1^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_1, B_{11}, C_{10}, D_2)} = \\
&+ A_1^+ \Phi_{(B_{11}, C_{10}, D_2)} \\
&+ D_2^+ \Phi_{(A_1, B_{11}, C_{10})} \\
&+ A_1^+ D_2^+ \Phi_{(B_{11}, C_{10})} \\
&+ B_{11}^+ C_{10}^+ \Phi_{(A_1, D_2)} \\
&+ A_1^+ B_{11}^+ C_{10}^+ \Phi_{(D_2,)} \\
&+ B_{11}^+ C_{10}^+ D_2^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{11}^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{11}, C_{10}, D_3)} = \\
&+ A_1^+ \Phi_{(B_{11}, C_{10}, D_3)} \\
&+ D_3^+ \Phi_{(A_1, B_{11}, C_{10})} \\
&+ A_1^+ D_3^+ \Phi_{(B_{11}, C_{10})} \\
&+ B_{11}^+ C_{10}^+ \Phi_{(A_1, D_3)} \\
&+ A_1^+ B_{11}^+ C_{10}^+ \Phi_{(D_3,)} \\
&+ B_{11}^+ C_{10}^+ D_3^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{11}^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{11}, C_{13}, D_6)} = \\
&+ A_1^+ \Phi_{(B_{11}, C_{13}, D_6)} \\
&+ B_{11}^+ C_{13}^+ D_6^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{11}^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{11}, C_{14}, D_6)} = \\
&+ A_1^+ \Phi_{(B_{11}, C_{14}, D_6)} \\
&+ B_{11}^+ C_{14}^+ D_6^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{11}^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1, B_{12}, C_1, D_9)} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_{12}, C_1, D_9)} \\
& +C_1^+ \Phi_{(A_1, B_{12}, D_9)} \\
& +A_1^+ C_1^+ \Phi_{(B_{12}, D_9)} \\
& +B_{12}^+ D_9^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_{12}^+ D_9^+ \Phi_{(C_1,)} \\
& +B_{12}^+ C_1^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{12}^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{12}, C_1, D_{10})} = \\
& +A_1^+ \Phi_{(B_{12}, C_1, D_{10})} \\
& +C_1^+ \Phi_{(A_1, B_{12}, D_{10})} \\
& +A_1^+ C_1^+ \Phi_{(B_{12}, D_{10})} \\
& +B_{12}^+ D_{10}^+ \Phi_{(A_1, C_1)} \\
& +A_1^+ B_{12}^+ D_{10}^+ \Phi_{(C_1,)} \\
& +B_{12}^+ C_1^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{12}^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{12}, C_2, D_9)} = \\
& +A_1^+ \Phi_{(B_{12}, C_2, D_9)} \\
& +C_2^+ \Phi_{(A_1, B_{12}, D_9)} \\
& +A_1^+ C_2^+ \Phi_{(B_{12}, D_9)} \\
& +B_{12}^+ D_9^+ \Phi_{(A_1, C_2)} \\
& +A_1^+ B_{12}^+ D_9^+ \Phi_{(C_2,)} \\
& +B_{12}^+ C_2^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{12}^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{12}, C_2, D_{10})} = \\
& +A_1^+ \Phi_{(B_{12}, C_2, D_{10})} \\
& +C_2^+ \Phi_{(A_1, B_{12}, D_{10})}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ C_2^+ \Phi_{(B_{12}, D_{10})} \\
& +B_{12}^+ D_{10}^+ \Phi_{(A_1, C_2)} \\
& +A_1^+ B_{12}^+ D_{10}^+ \Phi_{(C_2,)} \\
& +B_{12}^+ C_2^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{12}^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{12}, C_3, D_9)} = \\
& +A_1^+ \Phi_{(B_{12}, C_3, D_9)} \\
& +C_3^+ \Phi_{(A_1, B_{12}, D_9)} \\
& +A_1^+ C_3^+ \Phi_{(B_{12}, D_9)} \\
& +B_{12}^+ D_9^+ \Phi_{(A_1, C_3)} \\
& +A_1^+ B_{12}^+ D_9^+ \Phi_{(C_3,)} \\
& +B_{12}^+ C_3^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{12}^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{12}, C_3, D_{10})} = \\
& +A_1^+ \Phi_{(B_{12}, C_3, D_{10})} \\
& +C_3^+ \Phi_{(A_1, B_{12}, D_{10})} \\
& +A_1^+ C_3^+ \Phi_{(B_{12}, D_{10})} \\
& +B_{12}^+ D_{10}^+ \Phi_{(A_1, C_3)} \\
& +A_1^+ B_{12}^+ D_{10}^+ \Phi_{(C_3,)} \\
& +B_{12}^+ C_3^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{12}^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{12}, C_5, D_7)} = \\
& +A_1^+ \Phi_{(B_{12}, C_5, D_7)} \\
& +B_{12}^+ C_5^+ D_7^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{12}^+ C_5^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{12}, C_5, D_8)} = \\
&+ A_1^+ \Phi_{(B_{12}, C_5, D_8)} \\
&+ B_{12}^+ C_5^+ D_8^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{12}^+ C_5^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{12}, C_6, D_{13})} = \\
&+ A_1^+ \Phi_{(B_{12}, C_6, D_{13})} \\
&+ B_{12}^+ C_6^+ D_{13}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{12}^+ C_6^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{12}, C_6, D_{14})} = \\
&+ A_1^+ \Phi_{(B_{12}, C_6, D_{14})} \\
&+ B_{12}^+ C_6^+ D_{14}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{12}^+ C_6^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{12}, C_7, D_5)} = \\
&+ A_1^+ \Phi_{(B_{12}, C_7, D_5)} \\
&+ B_{12}^+ C_7^+ D_5^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{12}^+ C_7^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{12}, C_8, D_5)} = \\
&+ A_1^+ \Phi_{(B_{12}, C_8, D_5)} \\
&+ B_{12}^+ C_8^+ D_5^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{12}^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{12}, C_9, D_1)} = \\
&+ A_1^+ \Phi_{(B_{12}, C_9, D_1)} \\
&+ D_1^+ \Phi_{(A_1, B_{12}, C_9)} \\
&+ A_1^+ D_1^+ \Phi_{(B_{12}, C_9)}
\end{aligned}$$

$$\begin{aligned}
& +B_{12}^+C_9^+\Phi_{(A_1,D_1)} \\
& +A_1^+B_{12}^+C_9^+\Phi_{(D_1,)} \\
& +B_{12}^+C_9^+D_1^+\Phi_{(A_1,)} \\
& +A_1^+B_{12}^+C_9^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{12},C_9,D_2)} = \\
& +A_1^+\Phi_{(B_{12},C_9,D_2)} \\
& +D_2^+\Phi_{(A_1,B_{12},C_9)} \\
& +A_1^+D_2^+\Phi_{(B_{12},C_9)} \\
& +B_{12}^+C_9^+\Phi_{(A_1,D_2)} \\
& +A_1^+B_{12}^+C_9^+\Phi_{(D_2,)} \\
& +B_{12}^+C_9^+D_2^+\Phi_{(A_1,)} \\
& +A_1^+B_{12}^+C_9^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{12},C_9,D_3)} = \\
& +A_1^+\Phi_{(B_{12},C_9,D_3)} \\
& +D_3^+\Phi_{(A_1,B_{12},C_9)} \\
& +A_1^+D_3^+\Phi_{(B_{12},C_9)} \\
& +B_{12}^+C_9^+\Phi_{(A_1,D_3)} \\
& +A_1^+B_{12}^+C_9^+\Phi_{(D_3,)} \\
& +B_{12}^+C_9^+D_3^+\Phi_{(A_1,)} \\
& +A_1^+B_{12}^+C_9^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{12},C_{10},D_1)} = \\
& +A_1^+\Phi_{(B_{12},C_{10},D_1)} \\
& +D_1^+\Phi_{(A_1,B_{12},C_{10})} \\
& +A_1^+D_1^+\Phi_{(B_{12},C_{10})} \\
& +B_{12}^+C_{10}^+\Phi_{(A_1,D_1)} \\
& +A_1^+B_{12}^+C_{10}^+\Phi_{(D_1,)}
\end{aligned}$$

$$\begin{aligned}
& +B_{12}^+C_{10}^+D_1^+\Phi_{(A_1,)} \\
& +A_1^+B_{12}^+C_{10}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{12},C_{10},D_2)} = \\
& +A_1^+\Phi_{(B_{12},C_{10},D_2)} \\
& +D_2^+\Phi_{(A_1,B_{12},C_{10})} \\
& +A_1^+D_2^+\Phi_{(B_{12},C_{10})} \\
& +B_{12}^+C_{10}^+\Phi_{(A_1,D_2)} \\
& +A_1^+B_{12}^+C_{10}^+\Phi_{(D_2,)} \\
& +B_{12}^+C_{10}^+D_2^+\Phi_{(A_1,)} \\
& +A_1^+B_{12}^+C_{10}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{12},C_{10},D_3)} = \\
& +A_1^+\Phi_{(B_{12},C_{10},D_3)} \\
& +D_3^+\Phi_{(A_1,B_{12},C_{10})} \\
& +A_1^+D_3^+\Phi_{(B_{12},C_{10})} \\
& +B_{12}^+C_{10}^+\Phi_{(A_1,D_3)} \\
& +A_1^+B_{12}^+C_{10}^+\Phi_{(D_3,)} \\
& +B_{12}^+C_{10}^+D_3^+\Phi_{(A_1,)} \\
& +A_1^+B_{12}^+C_{10}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{12},C_{13},D_6)} = \\
& +A_1^+\Phi_{(B_{12},C_{13},D_6)} \\
& +B_{12}^+C_{13}^+D_6^+\Phi_{(A_1,)} \\
& +A_1^+B_{12}^+C_{13}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{12},C_{14},D_6)} = \\
& +A_1^+\Phi_{(B_{12},C_{14},D_6)} \\
& +B_{12}^+C_{14}^+D_6^+\Phi_{(A_1,)}
\end{aligned}$$

$$+A_1^+ B_{12}^+ C_{14}^+ D_6^+ \Phi_{()}$$

$$\Phi_{(A_1, B_{13}, C_1, D_7)} =$$

$$+A_1^+ \Phi_{(B_{13}, C_1, D_7)}$$

$$+C_1^+ \Phi_{(A_1, B_{13}, D_7)}$$

$$+A_1^+ C_1^+ \Phi_{(B_{13}, D_7)}$$

$$+B_{13}^+ D_7^+ \Phi_{(A_1, C_1)}$$

$$+A_1^+ B_{13}^+ D_7^+ \Phi_{(C_1,)}$$

$$+B_{13}^+ C_1^+ D_7^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{13}^+ C_1^+ D_7^+ \Phi_{()}$$

$$\Phi_{(A_1, B_{13}, C_1, D_8)} =$$

$$+A_1^+ \Phi_{(B_{13}, C_1, D_8)}$$

$$+C_1^+ \Phi_{(A_1, B_{13}, D_8)}$$

$$+A_1^+ C_1^+ \Phi_{(B_{13}, D_8)}$$

$$+B_{13}^+ D_8^+ \Phi_{(A_1, C_1)}$$

$$+A_1^+ B_{13}^+ D_8^+ \Phi_{(C_1,)}$$

$$+B_{13}^+ C_1^+ D_8^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{13}^+ C_1^+ D_8^+ \Phi_{()}$$

$$\Phi_{(A_1, B_{13}, C_2, D_7)} =$$

$$+A_1^+ \Phi_{(B_{13}, C_2, D_7)}$$

$$+C_2^+ \Phi_{(A_1, B_{13}, D_7)}$$

$$+A_1^+ C_2^+ \Phi_{(B_{13}, D_7)}$$

$$+B_{13}^+ D_7^+ \Phi_{(A_1, C_2)}$$

$$+A_1^+ B_{13}^+ D_7^+ \Phi_{(C_2,)}$$

$$+B_{13}^+ C_2^+ D_7^+ \Phi_{(A_1,)}$$

$$+A_1^+ B_{13}^+ C_2^+ D_7^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{13}, C_2, D_8)} = \\
&+ A_1^+ \Phi_{(B_{13}, C_2, D_8)} \\
&+ C_2^+ \Phi_{(A_1, B_{13}, D_8)} \\
&+ A_1^+ C_2^+ \Phi_{(B_{13}, D_8)} \\
&+ B_{13}^+ D_8^+ \Phi_{(A_1, C_2)} \\
&+ A_1^+ B_{13}^+ D_8^+ \Phi_{(C_2,)} \\
&+ B_{13}^+ C_2^+ D_8^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{13}^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{13}, C_3, D_7)} = \\
&+ A_1^+ \Phi_{(B_{13}, C_3, D_7)} \\
&+ C_3^+ \Phi_{(A_1, B_{13}, D_7)} \\
&+ A_1^+ C_3^+ \Phi_{(B_{13}, D_7)} \\
&+ B_{13}^+ D_7^+ \Phi_{(A_1, C_3)} \\
&+ A_1^+ B_{13}^+ D_7^+ \Phi_{(C_3,)} \\
&+ B_{13}^+ C_3^+ D_7^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{13}^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{13}, C_3, D_8)} = \\
&+ A_1^+ \Phi_{(B_{13}, C_3, D_8)} \\
&+ C_3^+ \Phi_{(A_1, B_{13}, D_8)} \\
&+ A_1^+ C_3^+ \Phi_{(B_{13}, D_8)} \\
&+ B_{13}^+ D_8^+ \Phi_{(A_1, C_3)} \\
&+ A_1^+ B_{13}^+ D_8^+ \Phi_{(C_3,)} \\
&+ B_{13}^+ C_3^+ D_8^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{13}^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{13}, C_4, D_9)} = \\
&+ A_1^+ \Phi_{(B_{13}, C_4, D_9)}
\end{aligned}$$

$$\begin{aligned}
& +B_{13}^+C_4^+D_9^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_4^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{13},C_4,D_{10})} = \\
& +A_1^+\Phi_{(B_{13},C_4,D_{10})} \\
& +B_{13}^+C_4^+D_{10}^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_4^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{13},C_6,D_{11})} = \\
& +A_1^+\Phi_{(B_{13},C_6,D_{11})} \\
& +B_{13}^+C_6^+D_{11}^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_6^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{13},C_6,D_{12})} = \\
& +A_1^+\Phi_{(B_{13},C_6,D_{12})} \\
& +B_{13}^+C_6^+D_{12}^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_6^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{13},C_7,D_1)} = \\
& +A_1^+\Phi_{(B_{13},C_7,D_1)} \\
& +D_1^+\Phi_{(A_1,B_{13},C_7)} \\
& +A_1^+D_1^+\Phi_{(B_{13},C_7)} \\
& +B_{13}^+C_7^+\Phi_{(A_1,D_1)} \\
& +A_1^+B_{13}^+C_7^+\Phi_{(D_1,)} \\
& +B_{13}^+C_7^+D_1^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_7^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{13},C_7,D_2)} = \\
& +A_1^+\Phi_{(B_{13},C_7,D_2)}
\end{aligned}$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_1, B_{13}, C_7)} \\
& +A_1^+ D_2^+ \Phi_{(B_{13}, C_7)} \\
& +B_{13}^+ C_7^+ \Phi_{(A_1, D_2)} \\
& +A_1^+ B_{13}^+ C_7^+ \Phi_{(D_2,)} \\
& +B_{13}^+ C_7^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{13}^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{13}, C_7, D_3)} = \\
& +A_1^+ \Phi_{(B_{13}, C_7, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_{13}, C_7)} \\
& +A_1^+ D_3^+ \Phi_{(B_{13}, C_7)} \\
& +B_{13}^+ C_7^+ \Phi_{(A_1, D_3)} \\
& +A_1^+ B_{13}^+ C_7^+ \Phi_{(D_3,)} \\
& +B_{13}^+ C_7^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{13}^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{13}, C_8, D_1)} = \\
& +A_1^+ \Phi_{(B_{13}, C_8, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_{13}, C_8)} \\
& +A_1^+ D_1^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_1, D_1)} \\
& +A_1^+ B_{13}^+ C_8^+ \Phi_{(D_1,)} \\
& +B_{13}^+ C_8^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{13}^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{13}, C_8, D_2)} = \\
& +A_1^+ \Phi_{(B_{13}, C_8, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_{13}, C_8)} \\
& +A_1^+ D_2^+ \Phi_{(B_{13}, C_8)}
\end{aligned}$$

$$\begin{aligned}
& +B_{13}^+C_8^+\Phi_{(A_1,D_2)} \\
& +A_1^+B_{13}^+C_8^+\Phi_{(D_2,)} \\
& +B_{13}^+C_8^+D_2^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_8^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{13},C_8,D_3)} = \\
& +A_1^+\Phi_{(B_{13},C_8,D_3)} \\
& +D_3^+\Phi_{(A_1,B_{13},C_8)} \\
& +A_1^+D_3^+\Phi_{(B_{13},C_8)} \\
& +B_{13}^+C_8^+\Phi_{(A_1,D_3)} \\
& +A_1^+B_{13}^+C_8^+\Phi_{(D_3,)} \\
& +B_{13}^+C_8^+D_3^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_8^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{13},C_9,D_4)} = \\
& +A_1^+\Phi_{(B_{13},C_9,D_4)} \\
& +B_{13}^+C_9^+D_4^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_9^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{13},C_{10},D_4)} = \\
& +A_1^+\Phi_{(B_{13},C_{10},D_4)} \\
& +B_{13}^+C_{10}^+D_4^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_{10}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1,B_{13},C_{11},D_6)} = \\
& +A_1^+\Phi_{(B_{13},C_{11},D_6)} \\
& +B_{13}^+C_{11}^+D_6^+\Phi_{(A_1,)} \\
& +A_1^+B_{13}^+C_{11}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{13}, C_{12}, D_6)} = \\
&+ A_1^+ \Phi_{(B_{13}, C_{12}, D_6)} \\
&+ B_{13}^+ C_{12}^+ D_6^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{13}^+ C_{12}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{14}, C_1, D_7)} = \\
&+ A_1^+ \Phi_{(B_{14}, C_1, D_7)} \\
&+ C_1^+ \Phi_{(A_1, B_{14}, D_7)} \\
&+ A_1^+ C_1^+ \Phi_{(B_{14}, D_7)} \\
&+ B_{14}^+ D_7^+ \Phi_{(A_1, C_1)} \\
&+ A_1^+ B_{14}^+ D_7^+ \Phi_{(C_1,)} \\
&+ B_{14}^+ C_1^+ D_7^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{14}^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{14}, C_1, D_8)} = \\
&+ A_1^+ \Phi_{(B_{14}, C_1, D_8)} \\
&+ C_1^+ \Phi_{(A_1, B_{14}, D_8)} \\
&+ A_1^+ C_1^+ \Phi_{(B_{14}, D_8)} \\
&+ B_{14}^+ D_8^+ \Phi_{(A_1, C_1)} \\
&+ A_1^+ B_{14}^+ D_8^+ \Phi_{(C_1,)} \\
&+ B_{14}^+ C_1^+ D_8^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{14}^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{14}, C_2, D_7)} = \\
&+ A_1^+ \Phi_{(B_{14}, C_2, D_7)} \\
&+ C_2^+ \Phi_{(A_1, B_{14}, D_7)} \\
&+ A_1^+ C_2^+ \Phi_{(B_{14}, D_7)} \\
&+ B_{14}^+ D_7^+ \Phi_{(A_1, C_2)} \\
&+ A_1^+ B_{14}^+ D_7^+ \Phi_{(C_2,)}
\end{aligned}$$

$$\begin{aligned}
& +B_{14}^+C_2^+D_7^+\Phi_{(A_1,)} \\
& +A_1^+B_{14}^+C_2^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{14},C_2,D_8)} = \\
& +A_1^+\Phi_{(B_{14},C_2,D_8)} \\
& +C_2^+\Phi_{(A_1,B_{14},D_8)} \\
& +A_1^+C_2^+\Phi_{(B_{14},D_8)} \\
& +B_{14}^+D_8^+\Phi_{(A_1,C_2)} \\
& +A_1^+B_{14}^+D_8^+\Phi_{(C_2,)} \\
& +B_{14}^+C_2^+D_8^+\Phi_{(A_1,)} \\
& +A_1^+B_{14}^+C_2^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{14},C_3,D_7)} = \\
& +A_1^+\Phi_{(B_{14},C_3,D_7)} \\
& +C_3^+\Phi_{(A_1,B_{14},D_7)} \\
& +A_1^+C_3^+\Phi_{(B_{14},D_7)} \\
& +B_{14}^+D_7^+\Phi_{(A_1,C_3)} \\
& +A_1^+B_{14}^+D_7^+\Phi_{(C_3,)} \\
& +B_{14}^+C_3^+D_7^+\Phi_{(A_1,)} \\
& +A_1^+B_{14}^+C_3^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{14},C_3,D_8)} = \\
& +A_1^+\Phi_{(B_{14},C_3,D_8)} \\
& +C_3^+\Phi_{(A_1,B_{14},D_8)} \\
& +A_1^+C_3^+\Phi_{(B_{14},D_8)} \\
& +B_{14}^+D_8^+\Phi_{(A_1,C_3)} \\
& +A_1^+B_{14}^+D_8^+\Phi_{(C_3,)} \\
& +B_{14}^+C_3^+D_8^+\Phi_{(A_1,)} \\
& +A_1^+B_{14}^+C_3^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{14}, C_4, D_9)} = \\
&+ A_1^+ \Phi_{(B_{14}, C_4, D_9)} \\
&+ B_{14}^+ C_4^+ D_9^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{14}^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{14}, C_4, D_{10})} = \\
&+ A_1^+ \Phi_{(B_{14}, C_4, D_{10})} \\
&+ B_{14}^+ C_4^+ D_{10}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{14}^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{14}, C_6, D_{11})} = \\
&+ A_1^+ \Phi_{(B_{14}, C_6, D_{11})} \\
&+ B_{14}^+ C_6^+ D_{11}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{14}^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{14}, C_6, D_{12})} = \\
&+ A_1^+ \Phi_{(B_{14}, C_6, D_{12})} \\
&+ B_{14}^+ C_6^+ D_{12}^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{14}^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_1, B_{14}, C_7, D_1)} = \\
&+ A_1^+ \Phi_{(B_{14}, C_7, D_1)} \\
&+ D_1^+ \Phi_{(A_1, B_{14}, C_7)} \\
&+ A_1^+ D_1^+ \Phi_{(B_{14}, C_7)} \\
&+ B_{14}^+ C_7^+ \Phi_{(A_1, D_1)} \\
&+ A_1^+ B_{14}^+ C_7^+ \Phi_{(D_1,)} \\
&+ B_{14}^+ C_7^+ D_1^+ \Phi_{(A_1,)} \\
&+ A_1^+ B_{14}^+ C_7^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{14}, C_7, D_2)} = \\
& + A_1^+ \Phi_{(B_{14}, C_7, D_2)} \\
& + D_2^+ \Phi_{(A_1, B_{14}, C_7)} \\
& + A_1^+ D_2^+ \Phi_{(B_{14}, C_7)} \\
& + B_{14}^+ C_7^+ \Phi_{(A_1, D_2)} \\
& + A_1^+ B_{14}^+ C_7^+ \Phi_{(D_2,)} \\
& + B_{14}^+ C_7^+ D_2^+ \Phi_{(A_1,)} \\
& + A_1^+ B_{14}^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{14}, C_7, D_3)} = \\
& + A_1^+ \Phi_{(B_{14}, C_7, D_3)} \\
& + D_3^+ \Phi_{(A_1, B_{14}, C_7)} \\
& + A_1^+ D_3^+ \Phi_{(B_{14}, C_7)} \\
& + B_{14}^+ C_7^+ \Phi_{(A_1, D_3)} \\
& + A_1^+ B_{14}^+ C_7^+ \Phi_{(D_3,)} \\
& + B_{14}^+ C_7^+ D_3^+ \Phi_{(A_1,)} \\
& + A_1^+ B_{14}^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{14}, C_8, D_1)} = \\
& + A_1^+ \Phi_{(B_{14}, C_8, D_1)} \\
& + D_1^+ \Phi_{(A_1, B_{14}, C_8)} \\
& + A_1^+ D_1^+ \Phi_{(B_{14}, C_8)} \\
& + B_{14}^+ C_8^+ \Phi_{(A_1, D_1)} \\
& + A_1^+ B_{14}^+ C_8^+ \Phi_{(D_1,)} \\
& + B_{14}^+ C_8^+ D_1^+ \Phi_{(A_1,)} \\
& + A_1^+ B_{14}^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_1, B_{14}, C_8, D_2)} =$$

$$\begin{aligned}
& +A_1^+ \Phi_{(B_{14}, C_8, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_{14}, C_8)} \\
& +A_1^+ D_2^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_1, D_2)} \\
& +A_1^+ B_{14}^+ C_8^+ \Phi_{(D_2,)} \\
& +B_{14}^+ C_8^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{14}^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{14}, C_8, D_3)} = \\
& +A_1^+ \Phi_{(B_{14}, C_8, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_{14}, C_8)} \\
& +A_1^+ D_3^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_1, D_3)} \\
& +A_1^+ B_{14}^+ C_8^+ \Phi_{(D_3,)} \\
& +B_{14}^+ C_8^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{14}^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{14}, C_9, D_4)} = \\
& +A_1^+ \Phi_{(B_{14}, C_9, D_4)} \\
& +B_{14}^+ C_9^+ D_4^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{14}^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{14}, C_{10}, D_4)} = \\
& +A_1^+ \Phi_{(B_{14}, C_{10}, D_4)} \\
& +B_{14}^+ C_{10}^+ D_4^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{14}^+ C_{10}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{14}, C_{11}, D_6)} = \\
& +A_1^+ \Phi_{(B_{14}, C_{11}, D_6)}
\end{aligned}$$

$$\begin{aligned}
& +B_{14}^+C_{11}^+D_6^+\Phi_{(A_1,)} \\
& +A_1^+B_{14}^+C_{11}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{14},C_{12},D_6)} = \\
& +A_1^+\Phi_{(B_{14},C_{12},D_6)} \\
& +B_{14}^+C_{12}^+D_6^+\Phi_{(A_1,)} \\
& +A_1^+B_{14}^+C_{12}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{15},C_1,D_6)} = \\
& +A_1^+\Phi_{(B_{15},C_1,D_6)} \\
& +C_1^+\Phi_{(A_1,B_{15},D_6)} \\
& +A_1^+C_1^+\Phi_{(B_{15},D_6)} \\
& +B_{15}^+D_6^+\Phi_{(A_1,C_1)} \\
& +A_1^+B_{15}^+D_6^+\Phi_{(C_1,)} \\
& +B_{15}^+C_1^+D_6^+\Phi_{(A_1,)} \\
& +A_1^+B_{15}^+C_1^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{15},C_2,D_6)} = \\
& +A_1^+\Phi_{(B_{15},C_2,D_6)} \\
& +C_2^+\Phi_{(A_1,B_{15},D_6)} \\
& +A_1^+C_2^+\Phi_{(B_{15},D_6)} \\
& +B_{15}^+D_6^+\Phi_{(A_1,C_2)} \\
& +A_1^+B_{15}^+D_6^+\Phi_{(C_2,)} \\
& +B_{15}^+C_2^+D_6^+\Phi_{(A_1,)} \\
& +A_1^+B_{15}^+C_2^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_1,B_{15},C_3,D_6)} = \\
& +A_1^+\Phi_{(B_{15},C_3,D_6)} \\
& +C_3^+\Phi_{(A_1,B_{15},D_6)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ C_3^+ \Phi_{(B_{15}, D_6)} \\
& +B_{15}^+ D_6^+ \Phi_{(A_1, C_3)} \\
& +A_1^+ B_{15}^+ D_6^+ \Phi_{(C_3,)} \\
& +B_{15}^+ C_3^+ D_6^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{15}^+ C_3^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_6, D_1)} = \\
& +A_1^+ \Phi_{(B_{15}, C_6, D_1)} \\
& +D_1^+ \Phi_{(A_1, B_{15}, C_6)} \\
& +A_1^+ D_1^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_1, D_1)} \\
& +A_1^+ B_{15}^+ C_6^+ \Phi_{(D_1,)} \\
& +B_{15}^+ C_6^+ D_1^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{15}^+ C_6^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_6, D_2)} = \\
& +A_1^+ \Phi_{(B_{15}, C_6, D_2)} \\
& +D_2^+ \Phi_{(A_1, B_{15}, C_6)} \\
& +A_1^+ D_2^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_1, D_2)} \\
& +A_1^+ B_{15}^+ C_6^+ \Phi_{(D_2,)} \\
& +B_{15}^+ C_6^+ D_2^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{15}^+ C_6^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_6, D_3)} = \\
& +A_1^+ \Phi_{(B_{15}, C_6, D_3)} \\
& +D_3^+ \Phi_{(A_1, B_{15}, C_6)} \\
& +A_1^+ D_3^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_1, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_1^+ B_{15}^+ C_6^+ \Phi_{(D_3,)} \\
& +B_{15}^+ C_6^+ D_3^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{15}^+ C_6^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_7, D_9)} = \\
& +A_1^+ \Phi_{(B_{15}, C_7, D_9)} \\
& +B_{15}^+ C_7^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{15}^+ C_7^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_7, D_{10})} = \\
& +A_1^+ \Phi_{(B_{15}, C_7, D_{10})} \\
& +B_{15}^+ C_7^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{15}^+ C_7^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_8, D_9)} = \\
& +A_1^+ \Phi_{(B_{15}, C_8, D_9)} \\
& +B_{15}^+ C_8^+ D_9^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{15}^+ C_8^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_8, D_{10})} = \\
& +A_1^+ \Phi_{(B_{15}, C_8, D_{10})} \\
& +B_{15}^+ C_8^+ D_{10}^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{15}^+ C_8^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_9, D_7)} = \\
& +A_1^+ \Phi_{(B_{15}, C_9, D_7)} \\
& +B_{15}^+ C_9^+ D_7^+ \Phi_{(A_1,)} \\
& +A_1^+ B_{15}^+ C_9^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_9, D_8)} = \\
& + A_1^+ \Phi_{(B_{15}, C_9, D_8)} \\
& + B_{15}^+ C_9^+ D_8^+ \Phi_{(A_1,)} \\
& + A_1^+ B_{15}^+ C_9^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_{10}, D_7)} = \\
& + A_1^+ \Phi_{(B_{15}, C_{10}, D_7)} \\
& + B_{15}^+ C_{10}^+ D_7^+ \Phi_{(A_1,)} \\
& + A_1^+ B_{15}^+ C_{10}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_1, B_{15}, C_{10}, D_8)} = \\
& + A_1^+ \Phi_{(B_{15}, C_{10}, D_8)} \\
& + B_{15}^+ C_{10}^+ D_8^+ \Phi_{(A_1,)} \\
& + A_1^+ B_{15}^+ C_{10}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_1, D_1)} = \\
& + A_2^+ \Phi_{(B_1, C_1, D_1)} \\
& + B_1^+ \Phi_{(A_2, C_1, D_1)} \\
& + C_1^+ \Phi_{(A_2, B_1, D_1)} \\
& + D_1^+ \Phi_{(A_2, B_1, C_1)} \\
& + A_2^+ B_1^+ \Phi_{(C_1, D_1)} \\
& + A_2^+ C_1^+ \Phi_{(B_1, D_1)} \\
& + A_2^+ D_1^+ \Phi_{(B_1, C_1)} \\
& + B_1^+ C_1^+ \Phi_{(A_2, D_1)} \\
& + B_1^+ D_1^+ \Phi_{(A_2, C_1)} \\
& + C_1^+ D_1^+ \Phi_{(A_2, B_1)} \\
& + A_2^+ B_1^+ C_1^+ \Phi_{(D_1,)} \\
& + A_2^+ B_1^+ D_1^+ \Phi_{(C_1,)} \\
& + A_2^+ C_1^+ D_1^+ \Phi_{(B_1,)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ C_1^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_1, C_1, D_2)} = & \\
& +A_2^+ \Phi_{(B_1, C_1, D_2)} \\
& +B_1^+ \Phi_{(A_2, C_1, D_2)} \\
& +C_1^+ \Phi_{(A_2, B_1, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_1, C_1)} \\
& +A_2^+ B_1^+ \Phi_{(C_1, D_2)} \\
& +A_2^+ C_1^+ \Phi_{(B_1, D_2)} \\
& +A_2^+ D_2^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_2, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_2, C_1)} \\
& +C_1^+ D_2^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ B_1^+ C_1^+ \Phi_{(D_2,)} \\
& +A_2^+ B_1^+ D_2^+ \Phi_{(C_1,)} \\
& +A_2^+ C_1^+ D_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_1^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_1, C_1, D_3)} = & \\
& +A_2^+ \Phi_{(B_1, C_1, D_3)} \\
& +B_1^+ \Phi_{(A_2, C_1, D_3)} \\
& +C_1^+ \Phi_{(A_2, B_1, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_1, C_1)} \\
& +A_2^+ B_1^+ \Phi_{(C_1, D_3)} \\
& +A_2^+ C_1^+ \Phi_{(B_1, D_3)} \\
& +A_2^+ D_3^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_2, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ D_3^+ \Phi_{(A_2, C_1)} \\
& +C_1^+ D_3^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ B_1^+ C_1^+ \Phi_{(D_3,)} \\
& +A_2^+ B_1^+ D_3^+ \Phi_{(C_1,)} \\
& +A_2^+ C_1^+ D_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_1^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_2, D_1)} = \\
& +A_2^+ \Phi_{(B_1, C_2, D_1)} \\
& +B_1^+ \Phi_{(A_2, C_2, D_1)} \\
& +C_2^+ \Phi_{(A_2, B_1, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_1, C_2)} \\
& +A_2^+ B_1^+ \Phi_{(C_2, D_1)} \\
& +A_2^+ C_2^+ \Phi_{(B_1, D_1)} \\
& +A_2^+ D_1^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_2, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_2, C_2)} \\
& +C_2^+ D_1^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ B_1^+ C_2^+ \Phi_{(D_1,)} \\
& +A_2^+ B_1^+ D_1^+ \Phi_{(C_2,)} \\
& +A_2^+ C_2^+ D_1^+ \Phi_{(B_1,)} \\
& +B_1^+ C_2^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_2, D_2)} = \\
& +A_2^+ \Phi_{(B_1, C_2, D_2)} \\
& +B_1^+ \Phi_{(A_2, C_2, D_2)} \\
& +C_2^+ \Phi_{(A_2, B_1, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_2, B_1, C_2)} \\
& +A_2^+ B_1^+ \Phi_{(C_2, D_2)} \\
& +A_2^+ C_2^+ \Phi_{(B_1, D_2)} \\
& +A_2^+ D_2^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_2, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_2, C_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ B_1^+ C_2^+ \Phi_{(D_2,)} \\
& +A_2^+ B_1^+ D_2^+ \Phi_{(C_2,)} \\
& +A_2^+ C_2^+ D_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_2^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_2, D_3)} = \\
& +A_2^+ \Phi_{(B_1, C_2, D_3)} \\
& +B_1^+ \Phi_{(A_2, C_2, D_3)} \\
& +C_2^+ \Phi_{(A_2, B_1, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_1, C_2)} \\
& +A_2^+ B_1^+ \Phi_{(C_2, D_3)} \\
& +A_2^+ C_2^+ \Phi_{(B_1, D_3)} \\
& +A_2^+ D_3^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_2, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_2, C_2)} \\
& +C_2^+ D_3^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ B_1^+ C_2^+ \Phi_{(D_3,)} \\
& +A_2^+ B_1^+ D_3^+ \Phi_{(C_2,)} \\
& +A_2^+ C_2^+ D_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_2^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_3, D_1)} = \\
& + A_2^+ \Phi_{(B_1, C_3, D_1)} \\
& + B_1^+ \Phi_{(A_2, C_3, D_1)} \\
& + C_3^+ \Phi_{(A_2, B_1, D_1)} \\
& + D_1^+ \Phi_{(A_2, B_1, C_3)} \\
& + A_2^+ B_1^+ \Phi_{(C_3, D_1)} \\
& + A_2^+ C_3^+ \Phi_{(B_1, D_1)} \\
& + A_2^+ D_1^+ \Phi_{(B_1, C_3)} \\
& + B_1^+ C_3^+ \Phi_{(A_2, D_1)} \\
& + B_1^+ D_1^+ \Phi_{(A_2, C_3)} \\
& + C_3^+ D_1^+ \Phi_{(A_2, B_1)} \\
& + A_2^+ B_1^+ C_3^+ \Phi_{(D_1,)} \\
& + A_2^+ B_1^+ D_1^+ \Phi_{(C_3,)} \\
& + A_2^+ C_3^+ D_1^+ \Phi_{(B_1,)} \\
& + B_1^+ C_3^+ D_1^+ \Phi_{(A_2,)} \\
& + A_2^+ B_1^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_3, D_2)} = \\
& + A_2^+ \Phi_{(B_1, C_3, D_2)} \\
& + B_1^+ \Phi_{(A_2, C_3, D_2)} \\
& + C_3^+ \Phi_{(A_2, B_1, D_2)} \\
& + D_2^+ \Phi_{(A_2, B_1, C_3)} \\
& + A_2^+ B_1^+ \Phi_{(C_3, D_2)} \\
& + A_2^+ C_3^+ \Phi_{(B_1, D_2)} \\
& + A_2^+ D_2^+ \Phi_{(B_1, C_3)} \\
& + B_1^+ C_3^+ \Phi_{(A_2, D_2)} \\
& + B_1^+ D_2^+ \Phi_{(A_2, C_3)} \\
& + C_3^+ D_2^+ \Phi_{(A_2, B_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_1^+ C_3^+ \Phi_{(D_2,)} \\
& +A_2^+ B_1^+ D_2^+ \Phi_{(C_3,)} \\
& +A_2^+ C_3^+ D_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_3^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_3, D_3)} = \\
& +A_2^+ \Phi_{(B_1, C_3, D_3)} \\
& +B_1^+ \Phi_{(A_2, C_3, D_3)} \\
& +C_3^+ \Phi_{(A_2, B_1, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_1, C_3)} \\
& +A_2^+ B_1^+ \Phi_{(C_3, D_3)} \\
& +A_2^+ C_3^+ \Phi_{(B_1, D_3)} \\
& +A_2^+ D_3^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_2, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_2, C_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ B_1^+ C_3^+ \Phi_{(D_3,)} \\
& +A_2^+ B_1^+ D_3^+ \Phi_{(C_3,)} \\
& +A_2^+ C_3^+ D_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_3^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_4, D_5)} = \\
& +A_2^+ \Phi_{(B_1, C_4, D_5)} \\
& +B_1^+ \Phi_{(A_2, C_4, D_5)} \\
& +A_2^+ B_1^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_4^+ D_5^+ \Phi_{(B_1,)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ C_4^+ D_5^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_1, C_5, D_4)} = \\
& +A_2^+ \Phi_{(B_1, C_5, D_4)} \\
& +B_1^+ \Phi_{(A_2, C_5, D_4)} \\
& +A_2^+ B_1^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_5^+ D_4^+ \Phi_{(B_1,)} \\
& +B_1^+ C_5^+ D_4^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_1, C_6, D_{15})} = \\
& +A_2^+ \Phi_{(B_1, C_6, D_{15})} \\
& +B_1^+ \Phi_{(A_2, C_6, D_{15})} \\
& +A_2^+ B_1^+ \Phi_{(C_6, D_{15})} \\
& +C_6^+ D_{15}^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_6^+ D_{15}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_6^+ D_{15}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_1, C_7, D_{13})} = \\
& +A_2^+ \Phi_{(B_1, C_7, D_{13})} \\
& +B_1^+ \Phi_{(A_2, C_7, D_{13})} \\
& +A_2^+ B_1^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_7^+ D_{13}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_7^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_7, D_{14})} = \\
& + A_2^+ \Phi_{(B_1, C_7, D_{14})} \\
& + B_1^+ \Phi_{(A_2, C_7, D_{14})} \\
& + A_2^+ B_1^+ \Phi_{(C_7, D_{14})} \\
& + C_7^+ D_{14}^+ \Phi_{(A_2, B_1)} \\
& + A_2^+ C_7^+ D_{14}^+ \Phi_{(B_1,)} \\
& + B_1^+ C_7^+ D_{14}^+ \Phi_{(A_2,)} \\
& + A_2^+ B_1^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_8, D_{13})} = \\
& + A_2^+ \Phi_{(B_1, C_8, D_{13})} \\
& + B_1^+ \Phi_{(A_2, C_8, D_{13})} \\
& + A_2^+ B_1^+ \Phi_{(C_8, D_{13})} \\
& + C_8^+ D_{13}^+ \Phi_{(A_2, B_1)} \\
& + A_2^+ C_8^+ D_{13}^+ \Phi_{(B_1,)} \\
& + B_1^+ C_8^+ D_{13}^+ \Phi_{(A_2,)} \\
& + A_2^+ B_1^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_8, D_{14})} = \\
& + A_2^+ \Phi_{(B_1, C_8, D_{14})} \\
& + B_1^+ \Phi_{(A_2, C_8, D_{14})} \\
& + A_2^+ B_1^+ \Phi_{(C_8, D_{14})} \\
& + C_8^+ D_{14}^+ \Phi_{(A_2, B_1)} \\
& + A_2^+ C_8^+ D_{14}^+ \Phi_{(B_1,)} \\
& + B_1^+ C_8^+ D_{14}^+ \Phi_{(A_2,)} \\
& + A_2^+ B_1^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_2, B_1, C_9, D_{11})} =$$

$$\begin{aligned}
& +A_2^+ \Phi_{(B_1, C_9, D_{11})} \\
& +B_1^+ \Phi_{(A_2, C_9, D_{11})} \\
& +A_2^+ B_1^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_9^+ D_{11}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_9^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_9, D_{12})} = \\
& +A_2^+ \Phi_{(B_1, C_9, D_{12})} \\
& +B_1^+ \Phi_{(A_2, C_9, D_{12})} \\
& +A_2^+ B_1^+ \Phi_{(C_9, D_{12})} \\
& +C_9^+ D_{12}^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_9^+ D_{12}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_9^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_{10}, D_{11})} = \\
& +A_2^+ \Phi_{(B_1, C_{10}, D_{11})} \\
& +B_1^+ \Phi_{(A_2, C_{10}, D_{11})} \\
& +A_2^+ B_1^+ \Phi_{(C_{10}, D_{11})} \\
& +C_{10}^+ D_{11}^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_{10}^+ D_{11}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{10}^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_{10}, D_{12})} = \\
& +A_2^+ \Phi_{(B_1, C_{10}, D_{12})} \\
& +B_1^+ \Phi_{(A_2, C_{10}, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_1^+ \Phi_{(C_{10}, D_{12})} \\
& +C_{10}^+ D_{12}^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_{10}^+ D_{12}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{10}^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_{11}, D_9)} = \\
& +A_2^+ \Phi_{(B_1, C_{11}, D_9)} \\
& +B_1^+ \Phi_{(A_2, C_{11}, D_9)} \\
& +A_2^+ B_1^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_{11}^+ D_9^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{11}^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_{11}, D_{10})} = \\
& +A_2^+ \Phi_{(B_1, C_{11}, D_{10})} \\
& +B_1^+ \Phi_{(A_2, C_{11}, D_{10})} \\
& +A_2^+ B_1^+ \Phi_{(C_{11}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_{11}^+ D_{10}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{11}^+ D_{10}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_1, C_{12}, D_9)} = \\
& +A_2^+ \Phi_{(B_1, C_{12}, D_9)} \\
& +B_1^+ \Phi_{(A_2, C_{12}, D_9)} \\
& +A_2^+ B_1^+ \Phi_{(C_{12}, D_9)} \\
& +C_{12}^+ D_9^+ \Phi_{(A_2, B_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ C_{12}^+ D_9^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{12}^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_1, C_{12}, D_{10})} = \\
& +A_2^+ \Phi_{(B_1, C_{12}, D_{10})} \\
& +B_1^+ \Phi_{(A_2, C_{12}, D_{10})} \\
& +A_2^+ B_1^+ \Phi_{(C_{12}, D_{10})} \\
& +C_{12}^+ D_{10}^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_{12}^+ D_{10}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{12}^+ D_{10}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_1, C_{13}, D_7)} = \\
& +A_2^+ \Phi_{(B_1, C_{13}, D_7)} \\
& +B_1^+ \Phi_{(A_2, C_{13}, D_7)} \\
& +A_2^+ B_1^+ \Phi_{(C_{13}, D_7)} \\
& +C_{13}^+ D_7^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_{13}^+ D_7^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{13}^+ D_7^+ \Phi_{(A_2,)} \\
& +A_2^+ B_1^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_1, C_{13}, D_8)} = \\
& +A_2^+ \Phi_{(B_1, C_{13}, D_8)} \\
& +B_1^+ \Phi_{(A_2, C_{13}, D_8)} \\
& +A_2^+ B_1^+ \Phi_{(C_{13}, D_8)} \\
& +C_{13}^+ D_8^+ \Phi_{(A_2, B_1)} \\
& +A_2^+ C_{13}^+ D_8^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{13}^+ D_8^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_1^+ C_{13}^+ D_8^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_1, C_{14}, D_7)} =$$

$$+A_2^+ \Phi_{(B_1, C_{14}, D_7)}$$

$$+B_1^+ \Phi_{(A_2, C_{14}, D_7)}$$

$$+A_2^+ B_1^+ \Phi_{(C_{14}, D_7)}$$

$$+C_{14}^+ D_7^+ \Phi_{(A_2, B_1)}$$

$$+A_2^+ C_{14}^+ D_7^+ \Phi_{(B_1,)}$$

$$+B_1^+ C_{14}^+ D_7^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_1^+ C_{14}^+ D_7^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_1, C_{14}, D_8)} =$$

$$+A_2^+ \Phi_{(B_1, C_{14}, D_8)}$$

$$+B_1^+ \Phi_{(A_2, C_{14}, D_8)}$$

$$+A_2^+ B_1^+ \Phi_{(C_{14}, D_8)}$$

$$+C_{14}^+ D_8^+ \Phi_{(A_2, B_1)}$$

$$+A_2^+ C_{14}^+ D_8^+ \Phi_{(B_1,)}$$

$$+B_1^+ C_{14}^+ D_8^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_1^+ C_{14}^+ D_8^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_1, C_{15}, D_6)} =$$

$$+A_2^+ \Phi_{(B_1, C_{15}, D_6)}$$

$$+B_1^+ \Phi_{(A_2, C_{15}, D_6)}$$

$$+A_2^+ B_1^+ \Phi_{(C_{15}, D_6)}$$

$$+C_{15}^+ D_6^+ \Phi_{(A_2, B_1)}$$

$$+A_2^+ C_{15}^+ D_6^+ \Phi_{(B_1,)}$$

$$+B_1^+ C_{15}^+ D_6^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_1^+ C_{15}^+ D_6^+ \Phi_{()} \\$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_1, D_1)} = \\
& + A_2^+ \Phi_{(B_2, C_1, D_1)} \\
& + B_2^+ \Phi_{(A_2, C_1, D_1)} \\
& + C_1^+ \Phi_{(A_2, B_2, D_1)} \\
& + D_1^+ \Phi_{(A_2, B_2, C_1)} \\
& + A_2^+ B_2^+ \Phi_{(C_1, D_1)} \\
& + A_2^+ C_1^+ \Phi_{(B_2, D_1)} \\
& + A_2^+ D_1^+ \Phi_{(B_2, C_1)} \\
& + B_2^+ C_1^+ \Phi_{(A_2, D_1)} \\
& + B_2^+ D_1^+ \Phi_{(A_2, C_1)} \\
& + C_1^+ D_1^+ \Phi_{(A_2, B_2)} \\
& + A_2^+ B_2^+ C_1^+ \Phi_{(D_1,)} \\
& + A_2^+ B_2^+ D_1^+ \Phi_{(C_1,)} \\
& + A_2^+ C_1^+ D_1^+ \Phi_{(B_2,)} \\
& + B_2^+ C_1^+ D_1^+ \Phi_{(A_2,)} \\
& + A_2^+ B_2^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_1, D_2)} = \\
& + A_2^+ \Phi_{(B_2, C_1, D_2)} \\
& + B_2^+ \Phi_{(A_2, C_1, D_2)} \\
& + C_1^+ \Phi_{(A_2, B_2, D_2)} \\
& + D_2^+ \Phi_{(A_2, B_2, C_1)} \\
& + A_2^+ B_2^+ \Phi_{(C_1, D_2)} \\
& + A_2^+ C_1^+ \Phi_{(B_2, D_2)} \\
& + A_2^+ D_2^+ \Phi_{(B_2, C_1)} \\
& + B_2^+ C_1^+ \Phi_{(A_2, D_2)} \\
& + B_2^+ D_2^+ \Phi_{(A_2, C_1)} \\
& + C_1^+ D_2^+ \Phi_{(A_2, B_2)} \\
& + A_2^+ B_2^+ C_1^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_2^+ D_2^+ \Phi_{(C_1,)} \\
& +A_2^+ C_1^+ D_2^+ \Phi_{(B_2,)} \\
& +B_2^+ C_1^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_1, D_3)} = \\
& +A_2^+ \Phi_{(B_2, C_1, D_3)} \\
& +B_2^+ \Phi_{(A_2, C_1, D_3)} \\
& +C_1^+ \Phi_{(A_2, B_2, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_2, C_1)} \\
& +A_2^+ B_2^+ \Phi_{(C_1, D_3)} \\
& +A_2^+ C_1^+ \Phi_{(B_2, D_3)} \\
& +A_2^+ D_3^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_2, C_1)} \\
& +C_1^+ D_3^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ B_2^+ C_1^+ \Phi_{(D_3,)} \\
& +A_2^+ B_2^+ D_3^+ \Phi_{(C_1,)} \\
& +A_2^+ C_1^+ D_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_1^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_2, D_1)} = \\
& +A_2^+ \Phi_{(B_2, C_2, D_1)} \\
& +B_2^+ \Phi_{(A_2, C_2, D_1)} \\
& +C_2^+ \Phi_{(A_2, B_2, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_2, C_2)} \\
& +A_2^+ B_2^+ \Phi_{(C_2, D_1)} \\
& +A_2^+ C_2^+ \Phi_{(B_2, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ D_1^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_2, C_2)} \\
& +C_2^+ D_1^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ B_2^+ C_2^+ \Phi_{(D_1,)} \\
& +A_2^+ B_2^+ D_1^+ \Phi_{(C_2,)} \\
& +A_2^+ C_2^+ D_1^+ \Phi_{(B_2,)} \\
& +B_2^+ C_2^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_2, D_2)} = \\
& +A_2^+ \Phi_{(B_2, C_2, D_2)} \\
& +B_2^+ \Phi_{(A_2, C_2, D_2)} \\
& +C_2^+ \Phi_{(A_2, B_2, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_2, C_2)} \\
& +A_2^+ B_2^+ \Phi_{(C_2, D_2)} \\
& +A_2^+ C_2^+ \Phi_{(B_2, D_2)} \\
& +A_2^+ D_2^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_2, C_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ B_2^+ C_2^+ \Phi_{(D_2,)} \\
& +A_2^+ B_2^+ D_2^+ \Phi_{(C_2,)} \\
& +A_2^+ C_2^+ D_2^+ \Phi_{(B_2,)} \\
& +B_2^+ C_2^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_2, D_3)} = \\
& +A_2^+ \Phi_{(B_2, C_2, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_2, C_2, D_3)} \\
& +C_2^+ \Phi_{(A_2, B_2, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_2, C_2)} \\
& +A_2^+ B_2^+ \Phi_{(C_2, D_3)} \\
& +A_2^+ C_2^+ \Phi_{(B_2, D_3)} \\
& +A_2^+ D_3^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_2, C_2)} \\
& +C_2^+ D_3^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ B_2^+ C_2^+ \Phi_{(D_3,)} \\
& +A_2^+ B_2^+ D_3^+ \Phi_{(C_2,)} \\
& +A_2^+ C_2^+ D_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_2^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_3, D_1)} = \\
& +A_2^+ \Phi_{(B_2, C_3, D_1)} \\
& +B_2^+ \Phi_{(A_2, C_3, D_1)} \\
& +C_3^+ \Phi_{(A_2, B_2, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_2, C_3)} \\
& +A_2^+ B_2^+ \Phi_{(C_3, D_1)} \\
& +A_2^+ C_3^+ \Phi_{(B_2, D_1)} \\
& +A_2^+ D_1^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_2, C_3)} \\
& +C_3^+ D_1^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ B_2^+ C_3^+ \Phi_{(D_1,)} \\
& +A_2^+ B_2^+ D_1^+ \Phi_{(C_3,)} \\
& +A_2^+ C_3^+ D_1^+ \Phi_{(B_2,)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ C_3^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_2, C_3, D_2)} = & \\
& +A_2^+ \Phi_{(B_2, C_3, D_2)} \\
& +B_2^+ \Phi_{(A_2, C_3, D_2)} \\
& +C_3^+ \Phi_{(A_2, B_2, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_2, C_3)} \\
& +A_2^+ B_2^+ \Phi_{(C_3, D_2)} \\
& +A_2^+ C_3^+ \Phi_{(B_2, D_2)} \\
& +A_2^+ D_2^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_2, C_3)} \\
& +C_3^+ D_2^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ B_2^+ C_3^+ \Phi_{(D_2,)} \\
& +A_2^+ B_2^+ D_2^+ \Phi_{(C_3,)} \\
& +A_2^+ C_3^+ D_2^+ \Phi_{(B_2,)} \\
& +B_2^+ C_3^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_2, C_3, D_3)} = & \\
& +A_2^+ \Phi_{(B_2, C_3, D_3)} \\
& +B_2^+ \Phi_{(A_2, C_3, D_3)} \\
& +C_3^+ \Phi_{(A_2, B_2, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_2, C_3)} \\
& +A_2^+ B_2^+ \Phi_{(C_3, D_3)} \\
& +A_2^+ C_3^+ \Phi_{(B_2, D_3)} \\
& +A_2^+ D_3^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_2, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ D_3^+ \Phi_{(A_2, C_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ B_2^+ C_3^+ \Phi_{(D_3,)} \\
& +A_2^+ B_2^+ D_3^+ \Phi_{(C_3,)} \\
& +A_2^+ C_3^+ D_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_3^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_4, D_5)} = \\
& +A_2^+ \Phi_{(B_2, C_4, D_5)} \\
& +B_2^+ \Phi_{(A_2, C_4, D_5)} \\
& +A_2^+ B_2^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_4^+ D_5^+ \Phi_{(B_2,)} \\
& +B_2^+ C_4^+ D_5^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_5, D_4)} = \\
& +A_2^+ \Phi_{(B_2, C_5, D_4)} \\
& +B_2^+ \Phi_{(A_2, C_5, D_4)} \\
& +A_2^+ B_2^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_5^+ D_4^+ \Phi_{(B_2,)} \\
& +B_2^+ C_5^+ D_4^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_6, D_{15})} = \\
& +A_2^+ \Phi_{(B_2, C_6, D_{15})} \\
& +B_2^+ \Phi_{(A_2, C_6, D_{15})}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_2^+ \Phi_{(C_6, D_{15})} \\
& +C_6^+ D_{15}^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_6^+ D_{15}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_6^+ D_{15}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_7, D_{13})} = \\
& +A_2^+ \Phi_{(B_2, C_7, D_{13})} \\
& +B_2^+ \Phi_{(A_2, C_7, D_{13})} \\
& +A_2^+ B_2^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_7^+ D_{13}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_7^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_7, D_{14})} = \\
& +A_2^+ \Phi_{(B_2, C_7, D_{14})} \\
& +B_2^+ \Phi_{(A_2, C_7, D_{14})} \\
& +A_2^+ B_2^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_7^+ D_{14}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_7^+ D_{14}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_8, D_{13})} = \\
& +A_2^+ \Phi_{(B_2, C_8, D_{13})} \\
& +B_2^+ \Phi_{(A_2, C_8, D_{13})} \\
& +A_2^+ B_2^+ \Phi_{(C_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_2, B_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ C_8^+ D_{13}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_8^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_2, C_8, D_{14})} = \\
& +A_2^+ \Phi_{(B_2, C_8, D_{14})} \\
& +B_2^+ \Phi_{(A_2, C_8, D_{14})} \\
& +A_2^+ B_2^+ \Phi_{(C_8, D_{14})} \\
& +C_8^+ D_{14}^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_8^+ D_{14}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_8^+ D_{14}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_2, C_9, D_{11})} = \\
& +A_2^+ \Phi_{(B_2, C_9, D_{11})} \\
& +B_2^+ \Phi_{(A_2, C_9, D_{11})} \\
& +A_2^+ B_2^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_9^+ D_{11}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_9^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_2, C_9, D_{12})} = \\
& +A_2^+ \Phi_{(B_2, C_9, D_{12})} \\
& +B_2^+ \Phi_{(A_2, C_9, D_{12})} \\
& +A_2^+ B_2^+ \Phi_{(C_9, D_{12})} \\
& +C_9^+ D_{12}^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_9^+ D_{12}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_9^+ D_{12}^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_2^+ C_9^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_2, C_{10}, D_{11})} =$$

$$+A_2^+ \Phi_{(B_2, C_{10}, D_{11})}$$

$$+B_2^+ \Phi_{(A_2, C_{10}, D_{11})}$$

$$+A_2^+ B_2^+ \Phi_{(C_{10}, D_{11})}$$

$$+C_{10}^+ D_{11}^+ \Phi_{(A_2, B_2)}$$

$$+A_2^+ C_{10}^+ D_{11}^+ \Phi_{(B_2,)}$$

$$+B_2^+ C_{10}^+ D_{11}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_2^+ C_{10}^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_2, C_{10}, D_{12})} =$$

$$+A_2^+ \Phi_{(B_2, C_{10}, D_{12})}$$

$$+B_2^+ \Phi_{(A_2, C_{10}, D_{12})}$$

$$+A_2^+ B_2^+ \Phi_{(C_{10}, D_{12})}$$

$$+C_{10}^+ D_{12}^+ \Phi_{(A_2, B_2)}$$

$$+A_2^+ C_{10}^+ D_{12}^+ \Phi_{(B_2,)}$$

$$+B_2^+ C_{10}^+ D_{12}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_2^+ C_{10}^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_2, C_{11}, D_9)} =$$

$$+A_2^+ \Phi_{(B_2, C_{11}, D_9)}$$

$$+B_2^+ \Phi_{(A_2, C_{11}, D_9)}$$

$$+A_2^+ B_2^+ \Phi_{(C_{11}, D_9)}$$

$$+C_{11}^+ D_9^+ \Phi_{(A_2, B_2)}$$

$$+A_2^+ C_{11}^+ D_9^+ \Phi_{(B_2,)}$$

$$+B_2^+ C_{11}^+ D_9^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_2^+ C_{11}^+ D_9^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_2, B_2, C_{11}, D_{10})} = \\
&+ A_2^+ \Phi_{(B_2, C_{11}, D_{10})} \\
&+ B_2^+ \Phi_{(A_2, C_{11}, D_{10})} \\
&+ A_2^+ B_2^+ \Phi_{(C_{11}, D_{10})} \\
&+ C_{11}^+ D_{10}^+ \Phi_{(A_2, B_2)} \\
&+ A_2^+ C_{11}^+ D_{10}^+ \Phi_{(B_2,)} \\
&+ B_2^+ C_{11}^+ D_{10}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_2^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_2, C_{12}, D_9)} = \\
&+ A_2^+ \Phi_{(B_2, C_{12}, D_9)} \\
&+ B_2^+ \Phi_{(A_2, C_{12}, D_9)} \\
&+ A_2^+ B_2^+ \Phi_{(C_{12}, D_9)} \\
&+ C_{12}^+ D_9^+ \Phi_{(A_2, B_2)} \\
&+ A_2^+ C_{12}^+ D_9^+ \Phi_{(B_2,)} \\
&+ B_2^+ C_{12}^+ D_9^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_2^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_2, C_{12}, D_{10})} = \\
&+ A_2^+ \Phi_{(B_2, C_{12}, D_{10})} \\
&+ B_2^+ \Phi_{(A_2, C_{12}, D_{10})} \\
&+ A_2^+ B_2^+ \Phi_{(C_{12}, D_{10})} \\
&+ C_{12}^+ D_{10}^+ \Phi_{(A_2, B_2)} \\
&+ A_2^+ C_{12}^+ D_{10}^+ \Phi_{(B_2,)} \\
&+ B_2^+ C_{12}^+ D_{10}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_2^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_2, C_{13}, D_7)} = \\
&+ A_2^+ \Phi_{(B_2, C_{13}, D_7)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_2, C_{13}, D_7)} \\
& +A_2^+ B_2^+ \Phi_{(C_{13}, D_7)} \\
& +C_{13}^+ D_7^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_{13}^+ D_7^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{13}^+ D_7^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_{13}, D_8)} = \\
& +A_2^+ \Phi_{(B_2, C_{13}, D_8)} \\
& +B_2^+ \Phi_{(A_2, C_{13}, D_8)} \\
& +A_2^+ B_2^+ \Phi_{(C_{13}, D_8)} \\
& +C_{13}^+ D_8^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_{13}^+ D_8^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{13}^+ D_8^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_{14}, D_7)} = \\
& +A_2^+ \Phi_{(B_2, C_{14}, D_7)} \\
& +B_2^+ \Phi_{(A_2, C_{14}, D_7)} \\
& +A_2^+ B_2^+ \Phi_{(C_{14}, D_7)} \\
& +C_{14}^+ D_7^+ \Phi_{(A_2, B_2)} \\
& +A_2^+ C_{14}^+ D_7^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{14}^+ D_7^+ \Phi_{(A_2,)} \\
& +A_2^+ B_2^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_2, C_{14}, D_8)} = \\
& +A_2^+ \Phi_{(B_2, C_{14}, D_8)} \\
& +B_2^+ \Phi_{(A_2, C_{14}, D_8)} \\
& +A_2^+ B_2^+ \Phi_{(C_{14}, D_8)}
\end{aligned}$$

$$\begin{aligned}
& +C_{14}^+D_8^+\Phi_{(A_2,B_2)} \\
& +A_2^+C_{14}^+D_8^+\Phi_{(B_2,)} \\
& +B_2^+C_{14}^+D_8^+\Phi_{(A_2,)} \\
& +A_2^+B_2^+C_{14}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2,B_2,C_{15},D_6)} = \\
& +A_2^+\Phi_{(B_2,C_{15},D_6)} \\
& +B_2^+\Phi_{(A_2,C_{15},D_6)} \\
& +A_2^+B_2^+\Phi_{(C_{15},D_6)} \\
& +C_{15}^+D_6^+\Phi_{(A_2,B_2)} \\
& +A_2^+C_{15}^+D_6^+\Phi_{(B_2,)} \\
& +B_2^+C_{15}^+D_6^+\Phi_{(A_2,)} \\
& +A_2^+B_2^+C_{15}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2,B_3,C_1,D_1)} = \\
& +A_2^+\Phi_{(B_3,C_1,D_1)} \\
& +B_3^+\Phi_{(A_2,C_1,D_1)} \\
& +C_1^+\Phi_{(A_2,B_3,D_1)} \\
& +D_1^+\Phi_{(A_2,B_3,C_1)} \\
& +A_2^+B_3^+\Phi_{(C_1,D_1)} \\
& +A_2^+C_1^+\Phi_{(B_3,D_1)} \\
& +A_2^+D_1^+\Phi_{(B_3,C_1)} \\
& +B_3^+C_1^+\Phi_{(A_2,D_1)} \\
& +B_3^+D_1^+\Phi_{(A_2,C_1)} \\
& +C_1^+D_1^+\Phi_{(A_2,B_3)} \\
& +A_2^+B_3^+C_1^+\Phi_{(D_1,)} \\
& +A_2^+B_3^+D_1^+\Phi_{(C_1,)} \\
& +A_2^+C_1^+D_1^+\Phi_{(B_3,)} \\
& +B_3^+C_1^+D_1^+\Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_3^+ C_1^+ D_1^+ \Phi_{()}$$

$$\Phi_{(A_2, B_3, C_1, D_2)} =$$

$$+A_2^+ \Phi_{(B_3, C_1, D_2)}$$

$$+B_3^+ \Phi_{(A_2, C_1, D_2)}$$

$$+C_1^+ \Phi_{(A_2, B_3, D_2)}$$

$$+D_2^+ \Phi_{(A_2, B_3, C_1)}$$

$$+A_2^+ B_3^+ \Phi_{(C_1, D_2)}$$

$$+A_2^+ C_1^+ \Phi_{(B_3, D_2)}$$

$$+A_2^+ D_2^+ \Phi_{(B_3, C_1)}$$

$$+B_3^+ C_1^+ \Phi_{(A_2, D_2)}$$

$$+B_3^+ D_2^+ \Phi_{(A_2, C_1)}$$

$$+C_1^+ D_2^+ \Phi_{(A_2, B_3)}$$

$$+A_2^+ B_3^+ C_1^+ \Phi_{(D_2,)}$$

$$+A_2^+ B_3^+ D_2^+ \Phi_{(C_1,)}$$

$$+A_2^+ C_1^+ D_2^+ \Phi_{(B_3,)}$$

$$+B_3^+ C_1^+ D_2^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_3^+ C_1^+ D_2^+ \Phi_{()}$$

$$\Phi_{(A_2, B_3, C_1, D_3)} =$$

$$+A_2^+ \Phi_{(B_3, C_1, D_3)}$$

$$+B_3^+ \Phi_{(A_2, C_1, D_3)}$$

$$+C_1^+ \Phi_{(A_2, B_3, D_3)}$$

$$+D_3^+ \Phi_{(A_2, B_3, C_1)}$$

$$+A_2^+ B_3^+ \Phi_{(C_1, D_3)}$$

$$+A_2^+ C_1^+ \Phi_{(B_3, D_3)}$$

$$+A_2^+ D_3^+ \Phi_{(B_3, C_1)}$$

$$+B_3^+ C_1^+ \Phi_{(A_2, D_3)}$$

$$+B_3^+ D_3^+ \Phi_{(A_2, C_1)}$$

$$\begin{aligned}
& +C_1^+ D_3^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ B_3^+ C_1^+ \Phi_{(D_3,)} \\
& +A_2^+ B_3^+ D_3^+ \Phi_{(C_1,)} \\
& +A_2^+ C_1^+ D_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_1^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_2, D_1)} = \\
& +A_2^+ \Phi_{(B_3, C_2, D_1)} \\
& +B_3^+ \Phi_{(A_2, C_2, D_1)} \\
& +C_2^+ \Phi_{(A_2, B_3, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_3, C_2)} \\
& +A_2^+ B_3^+ \Phi_{(C_2, D_1)} \\
& +A_2^+ C_2^+ \Phi_{(B_3, D_1)} \\
& +A_2^+ D_1^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_2, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_2, C_2)} \\
& +C_2^+ D_1^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ B_3^+ C_2^+ \Phi_{(D_1,)} \\
& +A_2^+ B_3^+ D_1^+ \Phi_{(C_2,)} \\
& +A_2^+ C_2^+ D_1^+ \Phi_{(B_3,)} \\
& +B_3^+ C_2^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_2, D_2)} = \\
& +A_2^+ \Phi_{(B_3, C_2, D_2)} \\
& +B_3^+ \Phi_{(A_2, C_2, D_2)} \\
& +C_2^+ \Phi_{(A_2, B_3, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_3, C_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_3^+ \Phi_{(C_2, D_2)} \\
& +A_2^+ C_2^+ \Phi_{(B_3, D_2)} \\
& +A_2^+ D_2^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_2, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_2, C_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ B_3^+ C_2^+ \Phi_{(D_2,)} \\
& +A_2^+ B_3^+ D_2^+ \Phi_{(C_2,)} \\
& +A_2^+ C_2^+ D_2^+ \Phi_{(B_3,)} \\
& +B_3^+ C_2^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_2, D_3)} = \\
& +A_2^+ \Phi_{(B_3, C_2, D_3)} \\
& +B_3^+ \Phi_{(A_2, C_2, D_3)} \\
& +C_2^+ \Phi_{(A_2, B_3, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_3, C_2)} \\
& +A_2^+ B_3^+ \Phi_{(C_2, D_3)} \\
& +A_2^+ C_2^+ \Phi_{(B_3, D_3)} \\
& +A_2^+ D_3^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_2, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_2, C_2)} \\
& +C_2^+ D_3^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ B_3^+ C_2^+ \Phi_{(D_3,)} \\
& +A_2^+ B_3^+ D_3^+ \Phi_{(C_2,)} \\
& +A_2^+ C_2^+ D_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_2^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_3, D_1)} = \\
& + A_2^+ \Phi_{(B_3, C_3, D_1)} \\
& + B_3^+ \Phi_{(A_2, C_3, D_1)} \\
& + C_3^+ \Phi_{(A_2, B_3, D_1)} \\
& + D_1^+ \Phi_{(A_2, B_3, C_3)} \\
& + A_2^+ B_3^+ \Phi_{(C_3, D_1)} \\
& + A_2^+ C_3^+ \Phi_{(B_3, D_1)} \\
& + A_2^+ D_1^+ \Phi_{(B_3, C_3)} \\
& + B_3^+ C_3^+ \Phi_{(A_2, D_1)} \\
& + B_3^+ D_1^+ \Phi_{(A_2, C_3)} \\
& + C_3^+ D_1^+ \Phi_{(A_2, B_3)} \\
& + A_2^+ B_3^+ C_3^+ \Phi_{(D_1,)} \\
& + A_2^+ B_3^+ D_1^+ \Phi_{(C_3,)} \\
& + A_2^+ C_3^+ D_1^+ \Phi_{(B_3,)} \\
& + B_3^+ C_3^+ D_1^+ \Phi_{(A_2,)} \\
& + A_2^+ B_3^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_3, D_2)} = \\
& + A_2^+ \Phi_{(B_3, C_3, D_2)} \\
& + B_3^+ \Phi_{(A_2, C_3, D_2)} \\
& + C_3^+ \Phi_{(A_2, B_3, D_2)} \\
& + D_2^+ \Phi_{(A_2, B_3, C_3)} \\
& + A_2^+ B_3^+ \Phi_{(C_3, D_2)} \\
& + A_2^+ C_3^+ \Phi_{(B_3, D_2)} \\
& + A_2^+ D_2^+ \Phi_{(B_3, C_3)} \\
& + B_3^+ C_3^+ \Phi_{(A_2, D_2)} \\
& + B_3^+ D_2^+ \Phi_{(A_2, C_3)} \\
& + C_3^+ D_2^+ \Phi_{(A_2, B_3)} \\
& + A_2^+ B_3^+ C_3^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_3^+ D_2^+ \Phi_{(C_3,)} \\
& +A_2^+ C_3^+ D_2^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_3, D_3)} = \\
& +A_2^+ \Phi_{(B_3, C_3, D_3)} \\
& +B_3^+ \Phi_{(A_2, C_3, D_3)} \\
& +C_3^+ \Phi_{(A_2, B_3, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_3, C_3)} \\
& +A_2^+ B_3^+ \Phi_{(C_3, D_3)} \\
& +A_2^+ C_3^+ \Phi_{(B_3, D_3)} \\
& +A_2^+ D_3^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_2, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_2, C_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ B_3^+ C_3^+ \Phi_{(D_3,)} \\
& +A_2^+ B_3^+ D_3^+ \Phi_{(C_3,)} \\
& +A_2^+ C_3^+ D_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_4, D_5)} = \\
& +A_2^+ \Phi_{(B_3, C_4, D_5)} \\
& +B_3^+ \Phi_{(A_2, C_4, D_5)} \\
& +A_2^+ B_3^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_4^+ D_5^+ \Phi_{(B_3,)} \\
& +B_3^+ C_4^+ D_5^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_3^+ C_4^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_3, C_5, D_4)} =$$

$$+A_2^+ \Phi_{(B_3, C_5, D_4)}$$

$$+B_3^+ \Phi_{(A_2, C_5, D_4)}$$

$$+A_2^+ B_3^+ \Phi_{(C_5, D_4)}$$

$$+C_5^+ D_4^+ \Phi_{(A_2, B_3)}$$

$$+A_2^+ C_5^+ D_4^+ \Phi_{(B_3,)}$$

$$+B_3^+ C_5^+ D_4^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_3^+ C_5^+ D_4^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_3, C_6, D_{15})} =$$

$$+A_2^+ \Phi_{(B_3, C_6, D_{15})}$$

$$+B_3^+ \Phi_{(A_2, C_6, D_{15})}$$

$$+A_2^+ B_3^+ \Phi_{(C_6, D_{15})}$$

$$+C_6^+ D_{15}^+ \Phi_{(A_2, B_3)}$$

$$+A_2^+ C_6^+ D_{15}^+ \Phi_{(B_3,)}$$

$$+B_3^+ C_6^+ D_{15}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_3^+ C_6^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_3, C_7, D_{13})} =$$

$$+A_2^+ \Phi_{(B_3, C_7, D_{13})}$$

$$+B_3^+ \Phi_{(A_2, C_7, D_{13})}$$

$$+A_2^+ B_3^+ \Phi_{(C_7, D_{13})}$$

$$+C_7^+ D_{13}^+ \Phi_{(A_2, B_3)}$$

$$+A_2^+ C_7^+ D_{13}^+ \Phi_{(B_3,)}$$

$$+B_3^+ C_7^+ D_{13}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_3^+ C_7^+ D_{13}^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_2, B_3, C_7, D_{14})} = \\
&+ A_2^+ \Phi_{(B_3, C_7, D_{14})} \\
&+ B_3^+ \Phi_{(A_2, C_7, D_{14})} \\
&+ A_2^+ B_3^+ \Phi_{(C_7, D_{14})} \\
&+ C_7^+ D_{14}^+ \Phi_{(A_2, B_3)} \\
&+ A_2^+ C_7^+ D_{14}^+ \Phi_{(B_3,)} \\
&+ B_3^+ C_7^+ D_{14}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_3^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_3, C_8, D_{13})} = \\
&+ A_2^+ \Phi_{(B_3, C_8, D_{13})} \\
&+ B_3^+ \Phi_{(A_2, C_8, D_{13})} \\
&+ A_2^+ B_3^+ \Phi_{(C_8, D_{13})} \\
&+ C_8^+ D_{13}^+ \Phi_{(A_2, B_3)} \\
&+ A_2^+ C_8^+ D_{13}^+ \Phi_{(B_3,)} \\
&+ B_3^+ C_8^+ D_{13}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_3^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_3, C_8, D_{14})} = \\
&+ A_2^+ \Phi_{(B_3, C_8, D_{14})} \\
&+ B_3^+ \Phi_{(A_2, C_8, D_{14})} \\
&+ A_2^+ B_3^+ \Phi_{(C_8, D_{14})} \\
&+ C_8^+ D_{14}^+ \Phi_{(A_2, B_3)} \\
&+ A_2^+ C_8^+ D_{14}^+ \Phi_{(B_3,)} \\
&+ B_3^+ C_8^+ D_{14}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_3^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_3, C_9, D_{11})} = \\
&+ A_2^+ \Phi_{(B_3, C_9, D_{11})}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_2, C_9, D_{11})} \\
& +A_2^+ B_3^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_9^+ D_{11}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_9^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_9, D_{12})} = \\
& +A_2^+ \Phi_{(B_3, C_9, D_{12})} \\
& +B_3^+ \Phi_{(A_2, C_9, D_{12})} \\
& +A_2^+ B_3^+ \Phi_{(C_9, D_{12})} \\
& +C_9^+ D_{12}^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_9^+ D_{12}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_9^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_{10}, D_{11})} = \\
& +A_2^+ \Phi_{(B_3, C_{10}, D_{11})} \\
& +B_3^+ \Phi_{(A_2, C_{10}, D_{11})} \\
& +A_2^+ B_3^+ \Phi_{(C_{10}, D_{11})} \\
& +C_{10}^+ D_{11}^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_{10}^+ D_{11}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{10}^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_{10}, D_{12})} = \\
& +A_2^+ \Phi_{(B_3, C_{10}, D_{12})} \\
& +B_3^+ \Phi_{(A_2, C_{10}, D_{12})} \\
& +A_2^+ B_3^+ \Phi_{(C_{10}, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +C_{10}^+ D_{12}^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_{10}^+ D_{12}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{10}^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_{11}, D_9)} = \\
& +A_2^+ \Phi_{(B_3, C_{11}, D_9)} \\
& +B_3^+ \Phi_{(A_2, C_{11}, D_9)} \\
& +A_2^+ B_3^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_{11}^+ D_9^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{11}^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_{11}, D_{10})} = \\
& +A_2^+ \Phi_{(B_3, C_{11}, D_{10})} \\
& +B_3^+ \Phi_{(A_2, C_{11}, D_{10})} \\
& +A_2^+ B_3^+ \Phi_{(C_{11}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_{11}^+ D_{10}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{11}^+ D_{10}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_3, C_{12}, D_9)} = \\
& +A_2^+ \Phi_{(B_3, C_{12}, D_9)} \\
& +B_3^+ \Phi_{(A_2, C_{12}, D_9)} \\
& +A_2^+ B_3^+ \Phi_{(C_{12}, D_9)} \\
& +C_{12}^+ D_9^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_{12}^+ D_9^+ \Phi_{(B_3,)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ C_{12}^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_3, C_{12}, D_{10})} = \\
& +A_2^+ \Phi_{(B_3, C_{12}, D_{10})} \\
& +B_3^+ \Phi_{(A_2, C_{12}, D_{10})} \\
& +A_2^+ B_3^+ \Phi_{(C_{12}, D_{10})} \\
& +C_{12}^+ D_{10}^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_{12}^+ D_{10}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{12}^+ D_{10}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_3, C_{13}, D_7)} = \\
& +A_2^+ \Phi_{(B_3, C_{13}, D_7)} \\
& +B_3^+ \Phi_{(A_2, C_{13}, D_7)} \\
& +A_2^+ B_3^+ \Phi_{(C_{13}, D_7)} \\
& +C_{13}^+ D_7^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_{13}^+ D_7^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{13}^+ D_7^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_3, C_{13}, D_8)} = \\
& +A_2^+ \Phi_{(B_3, C_{13}, D_8)} \\
& +B_3^+ \Phi_{(A_2, C_{13}, D_8)} \\
& +A_2^+ B_3^+ \Phi_{(C_{13}, D_8)} \\
& +C_{13}^+ D_8^+ \Phi_{(A_2, B_3)} \\
& +A_2^+ C_{13}^+ D_8^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{13}^+ D_8^+ \Phi_{(A_2,)} \\
& +A_2^+ B_3^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_3, C_{14}, D_7)} = \\
&+ A_2^+ \Phi_{(B_3, C_{14}, D_7)} \\
&+ B_3^+ \Phi_{(A_2, C_{14}, D_7)} \\
&+ A_2^+ B_3^+ \Phi_{(C_{14}, D_7)} \\
&+ C_{14}^+ D_7^+ \Phi_{(A_2, B_3)} \\
&+ A_2^+ C_{14}^+ D_7^+ \Phi_{(B_3,)} \\
&+ B_3^+ C_{14}^+ D_7^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_3^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_3, C_{14}, D_8)} = \\
&+ A_2^+ \Phi_{(B_3, C_{14}, D_8)} \\
&+ B_3^+ \Phi_{(A_2, C_{14}, D_8)} \\
&+ A_2^+ B_3^+ \Phi_{(C_{14}, D_8)} \\
&+ C_{14}^+ D_8^+ \Phi_{(A_2, B_3)} \\
&+ A_2^+ C_{14}^+ D_8^+ \Phi_{(B_3,)} \\
&+ B_3^+ C_{14}^+ D_8^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_3^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_3, C_{15}, D_6)} = \\
&+ A_2^+ \Phi_{(B_3, C_{15}, D_6)} \\
&+ B_3^+ \Phi_{(A_2, C_{15}, D_6)} \\
&+ A_2^+ B_3^+ \Phi_{(C_{15}, D_6)} \\
&+ C_{15}^+ D_6^+ \Phi_{(A_2, B_3)} \\
&+ A_2^+ C_{15}^+ D_6^+ \Phi_{(B_3,)} \\
&+ B_3^+ C_{15}^+ D_6^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_3^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_2, B_4, C_1, D_5)} =$$

$$\begin{aligned}
& +A_2^+ \Phi_{(B_4, C_1, D_5)} \\
& +C_1^+ \Phi_{(A_2, B_4, D_5)} \\
& +A_2^+ C_1^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_2, C_1)} \\
& +A_2^+ B_4^+ D_5^+ \Phi_{(C_1,)} \\
& +B_4^+ C_1^+ D_5^+ \Phi_{(A_2,)} \\
& +A_2^+ B_4^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_4, C_2, D_5)} = \\
& +A_2^+ \Phi_{(B_4, C_2, D_5)} \\
& +C_2^+ \Phi_{(A_2, B_4, D_5)} \\
& +A_2^+ C_2^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_2, C_2)} \\
& +A_2^+ B_4^+ D_5^+ \Phi_{(C_2,)} \\
& +B_4^+ C_2^+ D_5^+ \Phi_{(A_2,)} \\
& +A_2^+ B_4^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_4, C_3, D_5)} = \\
& +A_2^+ \Phi_{(B_4, C_3, D_5)} \\
& +C_3^+ \Phi_{(A_2, B_4, D_5)} \\
& +A_2^+ C_3^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_4^+ D_5^+ \Phi_{(C_3,)} \\
& +B_4^+ C_3^+ D_5^+ \Phi_{(A_2,)} \\
& +A_2^+ B_4^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_4, C_5, D_1)} = \\
& +A_2^+ \Phi_{(B_4, C_5, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_4, C_5)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ D_1^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_2, D_1)} \\
& +A_2^+ B_4^+ C_5^+ \Phi_{(D_1,)} \\
& +B_4^+ C_5^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_4^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_4, C_5, D_2)} = \\
& +A_2^+ \Phi_{(B_4, C_5, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_4, C_5)} \\
& +A_2^+ D_2^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_2, D_2)} \\
& +A_2^+ B_4^+ C_5^+ \Phi_{(D_2,)} \\
& +B_4^+ C_5^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_4^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_4, C_5, D_3)} = \\
& +A_2^+ \Phi_{(B_4, C_5, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_4, C_5)} \\
& +A_2^+ D_3^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_2, D_3)} \\
& +A_2^+ B_4^+ C_5^+ \Phi_{(D_3,)} \\
& +B_4^+ C_5^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_4^+ C_5^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_4, C_9, D_{13})} = \\
& +A_2^+ \Phi_{(B_4, C_9, D_{13})} \\
& +B_4^+ C_9^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_4^+ C_9^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_4, C_9, D_{14})} = \\
&+ A_2^+ \Phi_{(B_4, C_9, D_{14})} \\
&+ B_4^+ C_9^+ D_{14}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_4^+ C_9^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_4, C_{10}, D_{13})} = \\
&+ A_2^+ \Phi_{(B_4, C_{10}, D_{13})} \\
&+ B_4^+ C_{10}^+ D_{13}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_4^+ C_{10}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_4, C_{10}, D_{14})} = \\
&+ A_2^+ \Phi_{(B_4, C_{10}, D_{14})} \\
&+ B_4^+ C_{10}^+ D_{14}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_4^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_4, C_{13}, D_9)} = \\
&+ A_2^+ \Phi_{(B_4, C_{13}, D_9)} \\
&+ B_4^+ C_{13}^+ D_9^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_4^+ C_{13}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_4, C_{13}, D_{10})} = \\
&+ A_2^+ \Phi_{(B_4, C_{13}, D_{10})} \\
&+ B_4^+ C_{13}^+ D_{10}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_4^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_4, C_{14}, D_9)} = \\
&+ A_2^+ \Phi_{(B_4, C_{14}, D_9)} \\
&+ B_4^+ C_{14}^+ D_9^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_4^+ C_{14}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_4, C_{14}, D_{10})} = \\
&+ A_2^+ \Phi_{(B_4, C_{14}, D_{10})} \\
&+ B_4^+ C_{14}^+ D_{10}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_4^+ C_{14}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_5, C_1, D_4)} = \\
&+ A_2^+ \Phi_{(B_5, C_1, D_4)} \\
&+ C_1^+ \Phi_{(A_2, B_5, D_4)} \\
&+ A_2^+ C_1^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_2, C_1)} \\
&+ A_2^+ B_5^+ D_4^+ \Phi_{(C_1,)} \\
&+ B_5^+ C_1^+ D_4^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_5^+ C_1^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_5, C_2, D_4)} = \\
&+ A_2^+ \Phi_{(B_5, C_2, D_4)} \\
&+ C_2^+ \Phi_{(A_2, B_5, D_4)} \\
&+ A_2^+ C_2^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_2, C_2)} \\
&+ A_2^+ B_5^+ D_4^+ \Phi_{(C_2,)} \\
&+ B_5^+ C_2^+ D_4^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_5^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_5, C_3, D_4)} = \\
&+ A_2^+ \Phi_{(B_5, C_3, D_4)} \\
&+ C_3^+ \Phi_{(A_2, B_5, D_4)} \\
&+ A_2^+ C_3^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_2, C_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_5^+ D_4^+ \Phi_{(C_3,)} \\
& +B_5^+ C_3^+ D_4^+ \Phi_{(A_2,)} \\
& +A_2^+ B_5^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_5, C_4, D_1)} = \\
& +A_2^+ \Phi_{(B_5, C_4, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_5, C_4)} \\
& +A_2^+ D_1^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_2, D_1)} \\
& +A_2^+ B_5^+ C_4^+ \Phi_{(D_1,)} \\
& +B_5^+ C_4^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_5^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_5, C_4, D_2)} = \\
& +A_2^+ \Phi_{(B_5, C_4, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_5, C_4)} \\
& +A_2^+ D_2^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_2, D_2)} \\
& +A_2^+ B_5^+ C_4^+ \Phi_{(D_2,)} \\
& +B_5^+ C_4^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_5^+ C_4^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_5, C_4, D_3)} = \\
& +A_2^+ \Phi_{(B_5, C_4, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_5, C_4)} \\
& +A_2^+ D_3^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_2, D_3)} \\
& +A_2^+ B_5^+ C_4^+ \Phi_{(D_3,)} \\
& +B_5^+ C_4^+ D_3^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_5^+ C_4^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_5, C_7, D_{11})} =$$

$$+A_2^+ \Phi_{(B_5, C_7, D_{11})}$$

$$+B_5^+ C_7^+ D_{11}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_5^+ C_7^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_5, C_7, D_{12})} =$$

$$+A_2^+ \Phi_{(B_5, C_7, D_{12})}$$

$$+B_5^+ C_7^+ D_{12}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_5^+ C_7^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_5, C_8, D_{11})} =$$

$$+A_2^+ \Phi_{(B_5, C_8, D_{11})}$$

$$+B_5^+ C_8^+ D_{11}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_5^+ C_8^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_5, C_8, D_{12})} =$$

$$+A_2^+ \Phi_{(B_5, C_8, D_{12})}$$

$$+B_5^+ C_8^+ D_{12}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_5^+ C_8^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_5, C_{11}, D_7)} =$$

$$+A_2^+ \Phi_{(B_5, C_{11}, D_7)}$$

$$+B_5^+ C_{11}^+ D_7^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_5^+ C_{11}^+ D_7^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_5, C_{11}, D_8)} =$$

$$+A_2^+ \Phi_{(B_5, C_{11}, D_8)} \\$$

$$\begin{aligned}
& +B_5^+ C_{11}^+ D_8^+ \Phi_{(A_2,)} \\
& +A_2^+ B_5^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_5, C_{12}, D_7)} = \\
& +A_2^+ \Phi_{(B_5, C_{12}, D_7)} \\
& +B_5^+ C_{12}^+ D_7^+ \Phi_{(A_2,)} \\
& +A_2^+ B_5^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_5, C_{12}, D_8)} = \\
& +A_2^+ \Phi_{(B_5, C_{12}, D_8)} \\
& +B_5^+ C_{12}^+ D_8^+ \Phi_{(A_2,)} \\
& +A_2^+ B_5^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_6, C_1, D_{15})} = \\
& +A_2^+ \Phi_{(B_6, C_1, D_{15})} \\
& +C_1^+ \Phi_{(A_2, B_6, D_{15})} \\
& +A_2^+ C_1^+ \Phi_{(B_6, D_{15})} \\
& +B_6^+ D_{15}^+ \Phi_{(A_2, C_1)} \\
& +A_2^+ B_6^+ D_{15}^+ \Phi_{(C_1,)} \\
& +B_6^+ C_1^+ D_{15}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_6^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_6, C_2, D_{15})} = \\
& +A_2^+ \Phi_{(B_6, C_2, D_{15})} \\
& +C_2^+ \Phi_{(A_2, B_6, D_{15})} \\
& +A_2^+ C_2^+ \Phi_{(B_6, D_{15})} \\
& +B_6^+ D_{15}^+ \Phi_{(A_2, C_2)} \\
& +A_2^+ B_6^+ D_{15}^+ \Phi_{(C_2,)} \\
& +B_6^+ C_2^+ D_{15}^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_6^+ C_2^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_3, D_{15})} =$$

$$+A_2^+ \Phi_{(B_6, C_3, D_{15})}$$

$$+C_3^+ \Phi_{(A_2, B_6, D_{15})}$$

$$+A_2^+ C_3^+ \Phi_{(B_6, D_{15})}$$

$$+B_6^+ D_{15}^+ \Phi_{(A_2, C_3)}$$

$$+A_2^+ B_6^+ D_{15}^+ \Phi_{(C_3,)}$$

$$+B_6^+ C_3^+ D_{15}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_3^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_{11}, D_{13})} =$$

$$+A_2^+ \Phi_{(B_6, C_{11}, D_{13})}$$

$$+B_6^+ C_{11}^+ D_{13}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_{11}^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_{11}, D_{14})} =$$

$$+A_2^+ \Phi_{(B_6, C_{11}, D_{14})}$$

$$+B_6^+ C_{11}^+ D_{14}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_{11}^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_{12}, D_{13})} =$$

$$+A_2^+ \Phi_{(B_6, C_{12}, D_{13})}$$

$$+B_6^+ C_{12}^+ D_{13}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_{12}^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_{12}, D_{14})} =$$

$$+A_2^+ \Phi_{(B_6, C_{12}, D_{14})}$$

$$+B_6^+ C_{12}^+ D_{14}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_{12}^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_{13}, D_{11})} =$$

$$+A_2^+ \Phi_{(B_6, C_{13}, D_{11})}$$

$$+B_6^+ C_{13}^+ D_{11}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_{13}^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_{13}, D_{12})} =$$

$$+A_2^+ \Phi_{(B_6, C_{13}, D_{12})}$$

$$+B_6^+ C_{13}^+ D_{12}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_{13}^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_{14}, D_{11})} =$$

$$+A_2^+ \Phi_{(B_6, C_{14}, D_{11})}$$

$$+B_6^+ C_{14}^+ D_{11}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_{14}^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_{14}, D_{12})} =$$

$$+A_2^+ \Phi_{(B_6, C_{14}, D_{12})}$$

$$+B_6^+ C_{14}^+ D_{12}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_{14}^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_6, C_{15}, D_1)} =$$

$$+A_2^+ \Phi_{(B_6, C_{15}, D_1)}$$

$$+D_1^+ \Phi_{(A_2, B_6, C_{15})}$$

$$+A_2^+ D_1^+ \Phi_{(B_6, C_{15})}$$

$$+B_6^+ C_{15}^+ \Phi_{(A_2, D_1)}$$

$$+A_2^+ B_6^+ C_{15}^+ \Phi_{(D_1,)}$$

$$+B_6^+ C_{15}^+ D_1^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_6^+ C_{15}^+ D_1^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_2, B_6, C_{15}, D_2)} = \\
&+A_2^+ \Phi_{(B_6, C_{15}, D_2)} \\
&+D_2^+ \Phi_{(A_2, B_6, C_{15})} \\
&+A_2^+ D_2^+ \Phi_{(B_6, C_{15})} \\
&+B_6^+ C_{15}^+ \Phi_{(A_2, D_2)} \\
&+A_2^+ B_6^+ C_{15}^+ \Phi_{(D_2,)} \\
&+B_6^+ C_{15}^+ D_2^+ \Phi_{(A_2,)} \\
&+A_2^+ B_6^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_6, C_{15}, D_3)} = \\
&+A_2^+ \Phi_{(B_6, C_{15}, D_3)} \\
&+D_3^+ \Phi_{(A_2, B_6, C_{15})} \\
&+A_2^+ D_3^+ \Phi_{(B_6, C_{15})} \\
&+B_6^+ C_{15}^+ \Phi_{(A_2, D_3)} \\
&+A_2^+ B_6^+ C_{15}^+ \Phi_{(D_3,)} \\
&+B_6^+ C_{15}^+ D_3^+ \Phi_{(A_2,)} \\
&+A_2^+ B_6^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_7, C_1, D_{13})} = \\
&+A_2^+ \Phi_{(B_7, C_1, D_{13})} \\
&+C_1^+ \Phi_{(A_2, B_7, D_{13})} \\
&+A_2^+ C_1^+ \Phi_{(B_7, D_{13})} \\
&+B_7^+ D_{13}^+ \Phi_{(A_2, C_1)} \\
&+A_2^+ B_7^+ D_{13}^+ \Phi_{(C_1,)} \\
&+B_7^+ C_1^+ D_{13}^+ \Phi_{(A_2,)} \\
&+A_2^+ B_7^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_7, C_1, D_{14})} = \\
&+ A_2^+ \Phi_{(B_7, C_1, D_{14})} \\
&+ C_1^+ \Phi_{(A_2, B_7, D_{14})} \\
&+ A_2^+ C_1^+ \Phi_{(B_7, D_{14})} \\
&+ B_7^+ D_{14}^+ \Phi_{(A_2, C_1)} \\
&+ A_2^+ B_7^+ D_{14}^+ \Phi_{(C_1,)} \\
&+ B_7^+ C_1^+ D_{14}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_7^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_7, C_2, D_{13})} = \\
&+ A_2^+ \Phi_{(B_7, C_2, D_{13})} \\
&+ C_2^+ \Phi_{(A_2, B_7, D_{13})} \\
&+ A_2^+ C_2^+ \Phi_{(B_7, D_{13})} \\
&+ B_7^+ D_{13}^+ \Phi_{(A_2, C_2)} \\
&+ A_2^+ B_7^+ D_{13}^+ \Phi_{(C_2,)} \\
&+ B_7^+ C_2^+ D_{13}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_7^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_7, C_2, D_{14})} = \\
&+ A_2^+ \Phi_{(B_7, C_2, D_{14})} \\
&+ C_2^+ \Phi_{(A_2, B_7, D_{14})} \\
&+ A_2^+ C_2^+ \Phi_{(B_7, D_{14})} \\
&+ B_7^+ D_{14}^+ \Phi_{(A_2, C_2)} \\
&+ A_2^+ B_7^+ D_{14}^+ \Phi_{(C_2,)} \\
&+ B_7^+ C_2^+ D_{14}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_7^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_7, C_3, D_{13})} = \\
&+ A_2^+ \Phi_{(B_7, C_3, D_{13})}
\end{aligned}$$

$$\begin{aligned}
& +C_3^+ \Phi_{(A_2, B_7, D_{13})} \\
& +A_2^+ C_3^+ \Phi_{(B_7, D_{13})} \\
& +B_7^+ D_{13}^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_7^+ D_{13}^+ \Phi_{(C_3,)} \\
& +B_7^+ C_3^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_3, D_{14})} = \\
& +A_2^+ \Phi_{(B_7, C_3, D_{14})} \\
& +C_3^+ \Phi_{(A_2, B_7, D_{14})} \\
& +A_2^+ C_3^+ \Phi_{(B_7, D_{14})} \\
& +B_7^+ D_{14}^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_7^+ D_{14}^+ \Phi_{(C_3,)} \\
& +B_7^+ C_3^+ D_{14}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_5, D_{11})} = \\
& +A_2^+ \Phi_{(B_7, C_5, D_{11})} \\
& +B_7^+ C_5^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_5, D_{12})} = \\
& +A_2^+ \Phi_{(B_7, C_5, D_{12})} \\
& +B_7^+ C_5^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_9, D_{15})} = \\
& +A_2^+ \Phi_{(B_7, C_9, D_{15})} \\
& +B_7^+ C_9^+ D_{15}^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_7^+ C_9^+ D_{15}^+ \Phi_{()}$$

$$\Phi_{(A_2, B_7, C_{10}, D_{15})} =$$

$$+A_2^+ \Phi_{(B_7, C_{10}, D_{15})}$$

$$+B_7^+ C_{10}^+ D_{15}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_7^+ C_{10}^+ D_{15}^+ \Phi_{()}$$

$$\Phi_{(A_2, B_7, C_{11}, D_5)} =$$

$$+A_2^+ \Phi_{(B_7, C_{11}, D_5)}$$

$$+B_7^+ C_{11}^+ D_5^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_7^+ C_{11}^+ D_5^+ \Phi_{()}$$

$$\Phi_{(A_2, B_7, C_{12}, D_5)} =$$

$$+A_2^+ \Phi_{(B_7, C_{12}, D_5)}$$

$$+B_7^+ C_{12}^+ D_5^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_7^+ C_{12}^+ D_5^+ \Phi_{()}$$

$$\Phi_{(A_2, B_7, C_{13}, D_1)} =$$

$$+A_2^+ \Phi_{(B_7, C_{13}, D_1)}$$

$$+D_1^+ \Phi_{(A_2, B_7, C_{13})}$$

$$+A_2^+ D_1^+ \Phi_{(B_7, C_{13})}$$

$$+B_7^+ C_{13}^+ \Phi_{(A_2, D_1)}$$

$$+A_2^+ B_7^+ C_{13}^+ \Phi_{(D_1,)}$$

$$+B_7^+ C_{13}^+ D_1^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_7^+ C_{13}^+ D_1^+ \Phi_{()}$$

$$\Phi_{(A_2, B_7, C_{13}, D_2)} =$$

$$+A_2^+ \Phi_{(B_7, C_{13}, D_2)}$$

$$+D_2^+ \Phi_{(A_2, B_7, C_{13})}$$

$$\begin{aligned}
& +A_2^+ D_2^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_2, D_2)} \\
& +A_2^+ B_7^+ C_{13}^+ \Phi_{(D_2,)} \\
& +B_7^+ C_{13}^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_{13}, D_3)} = \\
& +A_2^+ \Phi_{(B_7, C_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_7, C_{13})} \\
& +A_2^+ D_3^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_2, D_3)} \\
& +A_2^+ B_7^+ C_{13}^+ \Phi_{(D_3,)} \\
& +B_7^+ C_{13}^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_{14}, D_1)} = \\
& +A_2^+ \Phi_{(B_7, C_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_7, C_{14})} \\
& +A_2^+ D_1^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_2, D_1)} \\
& +A_2^+ B_7^+ C_{14}^+ \Phi_{(D_1,)} \\
& +B_7^+ C_{14}^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_{14}, D_2)} = \\
& +A_2^+ \Phi_{(B_7, C_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_7, C_{14})} \\
& +A_2^+ D_2^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_2, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_7^+ C_{14}^+ \Phi_{(D_2,)} \\
& +B_7^+ C_{14}^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_{14}, D_3)} = \\
& +A_2^+ \Phi_{(B_7, C_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_7, C_{14})} \\
& +A_2^+ D_3^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_2, D_3)} \\
& +A_2^+ B_7^+ C_{14}^+ \Phi_{(D_3,)} \\
& +B_7^+ C_{14}^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_{15}, D_9)} = \\
& +A_2^+ \Phi_{(B_7, C_{15}, D_9)} \\
& +B_7^+ C_{15}^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_7, C_{15}, D_{10})} = \\
& +A_2^+ \Phi_{(B_7, C_{15}, D_{10})} \\
& +B_7^+ C_{15}^+ D_{10}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_7^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_8, C_1, D_{13})} = \\
& +A_2^+ \Phi_{(B_8, C_1, D_{13})} \\
& +C_1^+ \Phi_{(A_2, B_8, D_{13})} \\
& +A_2^+ C_1^+ \Phi_{(B_8, D_{13})} \\
& +B_8^+ D_{13}^+ \Phi_{(A_2, C_1)} \\
& +A_2^+ B_8^+ D_{13}^+ \Phi_{(C_1,)}
\end{aligned}$$

$$\begin{aligned}
& +B_8^+ C_1^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_8^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_8, C_1, D_{14})} = & \\
& +A_2^+ \Phi_{(B_8, C_1, D_{14})} \\
& +C_1^+ \Phi_{(A_2, B_8, D_{14})} \\
& +A_2^+ C_1^+ \Phi_{(B_8, D_{14})} \\
& +B_8^+ D_{14}^+ \Phi_{(A_2, C_1)} \\
& +A_2^+ B_8^+ D_{14}^+ \Phi_{(C_1,)} \\
& +B_8^+ C_1^+ D_{14}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_8^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_8, C_2, D_{13})} = & \\
& +A_2^+ \Phi_{(B_8, C_2, D_{13})} \\
& +C_2^+ \Phi_{(A_2, B_8, D_{13})} \\
& +A_2^+ C_2^+ \Phi_{(B_8, D_{13})} \\
& +B_8^+ D_{13}^+ \Phi_{(A_2, C_2)} \\
& +A_2^+ B_8^+ D_{13}^+ \Phi_{(C_2,)} \\
& +B_8^+ C_2^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_8^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_8, C_2, D_{14})} = & \\
& +A_2^+ \Phi_{(B_8, C_2, D_{14})} \\
& +C_2^+ \Phi_{(A_2, B_8, D_{14})} \\
& +A_2^+ C_2^+ \Phi_{(B_8, D_{14})} \\
& +B_8^+ D_{14}^+ \Phi_{(A_2, C_2)} \\
& +A_2^+ B_8^+ D_{14}^+ \Phi_{(C_2,)} \\
& +B_8^+ C_2^+ D_{14}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_8^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_3, D_{13})} = \\
&+ A_2^+ \Phi_{(B_8, C_3, D_{13})} \\
&+ C_3^+ \Phi_{(A_2, B_8, D_{13})} \\
&+ A_2^+ C_3^+ \Phi_{(B_8, D_{13})} \\
&+ B_8^+ D_{13}^+ \Phi_{(A_2, C_3)} \\
&+ A_2^+ B_8^+ D_{13}^+ \Phi_{(C_3,)} \\
&+ B_8^+ C_3^+ D_{13}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_3, D_{14})} = \\
&+ A_2^+ \Phi_{(B_8, C_3, D_{14})} \\
&+ C_3^+ \Phi_{(A_2, B_8, D_{14})} \\
&+ A_2^+ C_3^+ \Phi_{(B_8, D_{14})} \\
&+ B_8^+ D_{14}^+ \Phi_{(A_2, C_3)} \\
&+ A_2^+ B_8^+ D_{14}^+ \Phi_{(C_3,)} \\
&+ B_8^+ C_3^+ D_{14}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_5, D_{11})} = \\
&+ A_2^+ \Phi_{(B_8, C_5, D_{11})} \\
&+ B_8^+ C_5^+ D_{11}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_5, D_{12})} = \\
&+ A_2^+ \Phi_{(B_8, C_5, D_{12})} \\
&+ B_8^+ C_5^+ D_{12}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_9, D_{15})} = \\
&+ A_2^+ \Phi_{(B_8, C_9, D_{15})} \\
&+ B_8^+ C_9^+ D_{15}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_{10}, D_{15})} = \\
&+ A_2^+ \Phi_{(B_8, C_{10}, D_{15})} \\
&+ B_8^+ C_{10}^+ D_{15}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_{10}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_{11}, D_5)} = \\
&+ A_2^+ \Phi_{(B_8, C_{11}, D_5)} \\
&+ B_8^+ C_{11}^+ D_5^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_{11}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_{12}, D_5)} = \\
&+ A_2^+ \Phi_{(B_8, C_{12}, D_5)} \\
&+ B_8^+ C_{12}^+ D_5^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_{12}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_8, C_{13}, D_1)} = \\
&+ A_2^+ \Phi_{(B_8, C_{13}, D_1)} \\
&+ D_1^+ \Phi_{(A_2, B_8, C_{13})} \\
&+ A_2^+ D_1^+ \Phi_{(B_8, C_{13})} \\
&+ B_8^+ C_{13}^+ \Phi_{(A_2, D_1)} \\
&+ A_2^+ B_8^+ C_{13}^+ \Phi_{(D_1,)} \\
&+ B_8^+ C_{13}^+ D_1^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_8^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_8, C_{13}, D_2)} = \\
& + A_2^+ \Phi_{(B_8, C_{13}, D_2)} \\
& + D_2^+ \Phi_{(A_2, B_8, C_{13})} \\
& + A_2^+ D_2^+ \Phi_{(B_8, C_{13})} \\
& + B_8^+ C_{13}^+ \Phi_{(A_2, D_2)} \\
& + A_2^+ B_8^+ C_{13}^+ \Phi_{(D_2,)} \\
& + B_8^+ C_{13}^+ D_2^+ \Phi_{(A_2,)} \\
& + A_2^+ B_8^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_8, C_{13}, D_3)} = \\
& + A_2^+ \Phi_{(B_8, C_{13}, D_3)} \\
& + D_3^+ \Phi_{(A_2, B_8, C_{13})} \\
& + A_2^+ D_3^+ \Phi_{(B_8, C_{13})} \\
& + B_8^+ C_{13}^+ \Phi_{(A_2, D_3)} \\
& + A_2^+ B_8^+ C_{13}^+ \Phi_{(D_3,)} \\
& + B_8^+ C_{13}^+ D_3^+ \Phi_{(A_2,)} \\
& + A_2^+ B_8^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_8, C_{14}, D_1)} = \\
& + A_2^+ \Phi_{(B_8, C_{14}, D_1)} \\
& + D_1^+ \Phi_{(A_2, B_8, C_{14})} \\
& + A_2^+ D_1^+ \Phi_{(B_8, C_{14})} \\
& + B_8^+ C_{14}^+ \Phi_{(A_2, D_1)} \\
& + A_2^+ B_8^+ C_{14}^+ \Phi_{(D_1,)} \\
& + B_8^+ C_{14}^+ D_1^+ \Phi_{(A_2,)} \\
& + A_2^+ B_8^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_8, C_{14}, D_2)} = \\
& + A_2^+ \Phi_{(B_8, C_{14}, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_2, B_8, C_{14})} \\
& +A_2^+ D_2^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_2, D_2)} \\
& +A_2^+ B_8^+ C_{14}^+ \Phi_{(D_2,)} \\
& +B_8^+ C_{14}^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_8^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_8, C_{14}, D_3)} = \\
& +A_2^+ \Phi_{(B_8, C_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_8, C_{14})} \\
& +A_2^+ D_3^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_2, D_3)} \\
& +A_2^+ B_8^+ C_{14}^+ \Phi_{(D_3,)} \\
& +B_8^+ C_{14}^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_8^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_8, C_{15}, D_9)} = \\
& +A_2^+ \Phi_{(B_8, C_{15}, D_9)} \\
& +B_8^+ C_{15}^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_8^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_8, C_{15}, D_{10})} = \\
& +A_2^+ \Phi_{(B_8, C_{15}, D_{10})} \\
& +B_8^+ C_{15}^+ D_{10}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_8^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_1, D_{11})} = \\
& +A_2^+ \Phi_{(B_9, C_1, D_{11})} \\
& +C_1^+ \Phi_{(A_2, B_9, D_{11})}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ C_1^+ \Phi_{(B_9, D_{11})} \\
& +B_9^+ D_{11}^+ \Phi_{(A_2, C_1)} \\
& +A_2^+ B_9^+ D_{11}^+ \Phi_{(C_1,)} \\
& +B_9^+ C_1^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_1, D_{12})} = \\
& +A_2^+ \Phi_{(B_9, C_1, D_{12})} \\
& +C_1^+ \Phi_{(A_2, B_9, D_{12})} \\
& +A_2^+ C_1^+ \Phi_{(B_9, D_{12})} \\
& +B_9^+ D_{12}^+ \Phi_{(A_2, C_1)} \\
& +A_2^+ B_9^+ D_{12}^+ \Phi_{(C_1,)} \\
& +B_9^+ C_1^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_2, D_{11})} = \\
& +A_2^+ \Phi_{(B_9, C_2, D_{11})} \\
& +C_2^+ \Phi_{(A_2, B_9, D_{11})} \\
& +A_2^+ C_2^+ \Phi_{(B_9, D_{11})} \\
& +B_9^+ D_{11}^+ \Phi_{(A_2, C_2)} \\
& +A_2^+ B_9^+ D_{11}^+ \Phi_{(C_2,)} \\
& +B_9^+ C_2^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_2, D_{12})} = \\
& +A_2^+ \Phi_{(B_9, C_2, D_{12})} \\
& +C_2^+ \Phi_{(A_2, B_9, D_{12})} \\
& +A_2^+ C_2^+ \Phi_{(B_9, D_{12})} \\
& +B_9^+ D_{12}^+ \Phi_{(A_2, C_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_9^+ D_{12}^+ \Phi_{(C_2,)} \\
& +B_9^+ C_2^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_3, D_{11})} = \\
& +A_2^+ \Phi_{(B_9, C_3, D_{11})} \\
& +C_3^+ \Phi_{(A_2, B_9, D_{11})} \\
& +A_2^+ C_3^+ \Phi_{(B_9, D_{11})} \\
& +B_9^+ D_{11}^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_9^+ D_{11}^+ \Phi_{(C_3,)} \\
& +B_9^+ C_3^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_3, D_{12})} = \\
& +A_2^+ \Phi_{(B_9, C_3, D_{12})} \\
& +C_3^+ \Phi_{(A_2, B_9, D_{12})} \\
& +A_2^+ C_3^+ \Phi_{(B_9, D_{12})} \\
& +B_9^+ D_{12}^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_9^+ D_{12}^+ \Phi_{(C_3,)} \\
& +B_9^+ C_3^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_4, D_{13})} = \\
& +A_2^+ \Phi_{(B_9, C_4, D_{13})} \\
& +B_9^+ C_4^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_4, D_{14})} = \\
& +A_2^+ \Phi_{(B_9, C_4, D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +B_9^+ C_4^+ D_{14}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_7, D_{15})} = \\
& +A_2^+ \Phi_{(B_9, C_7, D_{15})} \\
& +B_9^+ C_7^+ D_{15}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_8, D_{15})} = \\
& +A_2^+ \Phi_{(B_9, C_8, D_{15})} \\
& +B_9^+ C_8^+ D_{15}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_{11}, D_1)} = \\
& +A_2^+ \Phi_{(B_9, C_{11}, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_9, C_{11})} \\
& +A_2^+ D_1^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_2, D_1)} \\
& +A_2^+ B_9^+ C_{11}^+ \Phi_{(D_1,)} \\
& +B_9^+ C_{11}^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_9^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_9, C_{11}, D_2)} = \\
& +A_2^+ \Phi_{(B_9, C_{11}, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_9, C_{11})} \\
& +A_2^+ D_2^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_2, D_2)} \\
& +A_2^+ B_9^+ C_{11}^+ \Phi_{(D_2,)} \\
& +B_9^+ C_{11}^+ D_2^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_9^+ C_{11}^+ D_2^+ \Phi_{()}$$

$$\Phi_{(A_2, B_9, C_{11}, D_3)} =$$

$$+A_2^+ \Phi_{(B_9, C_{11}, D_3)}$$

$$+D_3^+ \Phi_{(A_2, B_9, C_{11})}$$

$$+A_2^+ D_3^+ \Phi_{(B_9, C_{11})}$$

$$+B_9^+ C_{11}^+ \Phi_{(A_2, D_3)}$$

$$+A_2^+ B_9^+ C_{11}^+ \Phi_{(D_3,)}$$

$$+B_9^+ C_{11}^+ D_3^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_9^+ C_{11}^+ D_3^+ \Phi_{()}$$

$$\Phi_{(A_2, B_9, C_{12}, D_1)} =$$

$$+A_2^+ \Phi_{(B_9, C_{12}, D_1)}$$

$$+D_1^+ \Phi_{(A_2, B_9, C_{12})}$$

$$+A_2^+ D_1^+ \Phi_{(B_9, C_{12})}$$

$$+B_9^+ C_{12}^+ \Phi_{(A_2, D_1)}$$

$$+A_2^+ B_9^+ C_{12}^+ \Phi_{(D_1,)}$$

$$+B_9^+ C_{12}^+ D_1^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_9^+ C_{12}^+ D_1^+ \Phi_{()}$$

$$\Phi_{(A_2, B_9, C_{12}, D_2)} =$$

$$+A_2^+ \Phi_{(B_9, C_{12}, D_2)}$$

$$+D_2^+ \Phi_{(A_2, B_9, C_{12})}$$

$$+A_2^+ D_2^+ \Phi_{(B_9, C_{12})}$$

$$+B_9^+ C_{12}^+ \Phi_{(A_2, D_2)}$$

$$+A_2^+ B_9^+ C_{12}^+ \Phi_{(D_2,)}$$

$$+B_9^+ C_{12}^+ D_2^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_9^+ C_{12}^+ D_2^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_2, B_9, C_{12}, D_3)} = \\
&+ A_2^+ \Phi_{(B_9, C_{12}, D_3)} \\
&+ D_3^+ \Phi_{(A_2, B_9, C_{12})} \\
&+ A_2^+ D_3^+ \Phi_{(B_9, C_{12})} \\
&+ B_9^+ C_{12}^+ \Phi_{(A_2, D_3)} \\
&+ A_2^+ B_9^+ C_{12}^+ \Phi_{(D_3,)} \\
&+ B_9^+ C_{12}^+ D_3^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_9^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_9, C_{13}, D_4)} = \\
&+ A_2^+ \Phi_{(B_9, C_{13}, D_4)} \\
&+ B_9^+ C_{13}^+ D_4^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_9^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_9, C_{14}, D_4)} = \\
&+ A_2^+ \Phi_{(B_9, C_{14}, D_4)} \\
&+ B_9^+ C_{14}^+ D_4^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_9^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_9, C_{15}, D_7)} = \\
&+ A_2^+ \Phi_{(B_9, C_{15}, D_7)} \\
&+ B_9^+ C_{15}^+ D_7^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_9^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_9, C_{15}, D_8)} = \\
&+ A_2^+ \Phi_{(B_9, C_{15}, D_8)} \\
&+ B_9^+ C_{15}^+ D_8^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_9^+ C_{15}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_1, D_{11})} = \\
&+A_2^+ \Phi_{(B_{10}, C_1, D_{11})} \\
&+C_1^+ \Phi_{(A_2, B_{10}, D_{11})} \\
&+A_2^+ C_1^+ \Phi_{(B_{10}, D_{11})} \\
&+B_{10}^+ D_{11}^+ \Phi_{(A_2, C_1)} \\
&+A_2^+ B_{10}^+ D_{11}^+ \Phi_{(C_1,)} \\
&+B_{10}^+ C_1^+ D_{11}^+ \Phi_{(A_2,)} \\
&+A_2^+ B_{10}^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_1, D_{12})} = \\
&+A_2^+ \Phi_{(B_{10}, C_1, D_{12})} \\
&+C_1^+ \Phi_{(A_2, B_{10}, D_{12})} \\
&+A_2^+ C_1^+ \Phi_{(B_{10}, D_{12})} \\
&+B_{10}^+ D_{12}^+ \Phi_{(A_2, C_1)} \\
&+A_2^+ B_{10}^+ D_{12}^+ \Phi_{(C_1,)} \\
&+B_{10}^+ C_1^+ D_{12}^+ \Phi_{(A_2,)} \\
&+A_2^+ B_{10}^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_2, D_{11})} = \\
&+A_2^+ \Phi_{(B_{10}, C_2, D_{11})} \\
&+C_2^+ \Phi_{(A_2, B_{10}, D_{11})} \\
&+A_2^+ C_2^+ \Phi_{(B_{10}, D_{11})} \\
&+B_{10}^+ D_{11}^+ \Phi_{(A_2, C_2)} \\
&+A_2^+ B_{10}^+ D_{11}^+ \Phi_{(C_2,)} \\
&+B_{10}^+ C_2^+ D_{11}^+ \Phi_{(A_2,)} \\
&+A_2^+ B_{10}^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_2, D_{12})} = \\
&+A_2^+ \Phi_{(B_{10}, C_2, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_2, B_{10}, D_{12})} \\
& +A_2^+ C_2^+ \Phi_{(B_{10}, D_{12})} \\
& +B_{10}^+ D_{12}^+ \Phi_{(A_2, C_2)} \\
& +A_2^+ B_{10}^+ D_{12}^+ \Phi_{(C_2,)} \\
& +B_{10}^+ C_2^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{10}^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{10}, C_3, D_{11})} = \\
& +A_2^+ \Phi_{(B_{10}, C_3, D_{11})} \\
& +C_3^+ \Phi_{(A_2, B_{10}, D_{11})} \\
& +A_2^+ C_3^+ \Phi_{(B_{10}, D_{11})} \\
& +B_{10}^+ D_{11}^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_{10}^+ D_{11}^+ \Phi_{(C_3,)} \\
& +B_{10}^+ C_3^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{10}^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{10}, C_3, D_{12})} = \\
& +A_2^+ \Phi_{(B_{10}, C_3, D_{12})} \\
& +C_3^+ \Phi_{(A_2, B_{10}, D_{12})} \\
& +A_2^+ C_3^+ \Phi_{(B_{10}, D_{12})} \\
& +B_{10}^+ D_{12}^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_{10}^+ D_{12}^+ \Phi_{(C_3,)} \\
& +B_{10}^+ C_3^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{10}^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{10}, C_4, D_{13})} = \\
& +A_2^+ \Phi_{(B_{10}, C_4, D_{13})} \\
& +B_{10}^+ C_4^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{10}^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_4, D_{14})} = \\
&+ A_2^+ \Phi_{(B_{10}, C_4, D_{14})} \\
&+ B_{10}^+ C_4^+ D_{14}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{10}^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_7, D_{15})} = \\
&+ A_2^+ \Phi_{(B_{10}, C_7, D_{15})} \\
&+ B_{10}^+ C_7^+ D_{15}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{10}^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_8, D_{15})} = \\
&+ A_2^+ \Phi_{(B_{10}, C_8, D_{15})} \\
&+ B_{10}^+ C_8^+ D_{15}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{10}^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_{11}, D_1)} = \\
&+ A_2^+ \Phi_{(B_{10}, C_{11}, D_1)} \\
&+ D_1^+ \Phi_{(A_2, B_{10}, C_{11})} \\
&+ A_2^+ D_1^+ \Phi_{(B_{10}, C_{11})} \\
&+ B_{10}^+ C_{11}^+ \Phi_{(A_2, D_1)} \\
&+ A_2^+ B_{10}^+ C_{11}^+ \Phi_{(D_1,)} \\
&+ B_{10}^+ C_{11}^+ D_1^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{10}^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{10}, C_{11}, D_2)} = \\
&+ A_2^+ \Phi_{(B_{10}, C_{11}, D_2)} \\
&+ D_2^+ \Phi_{(A_2, B_{10}, C_{11})} \\
&+ A_2^+ D_2^+ \Phi_{(B_{10}, C_{11})}
\end{aligned}$$

$$\begin{aligned}
& +B_{10}^+C_{11}^+\Phi_{(A_2,D_2)} \\
& +A_2^+B_{10}^+C_{11}^+\Phi_{(D_2,)} \\
& +B_{10}^+C_{11}^+D_2^+\Phi_{(A_2,)} \\
& +A_2^+B_{10}^+C_{11}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2,B_{10},C_{11},D_3)} = \\
& +A_2^+\Phi_{(B_{10},C_{11},D_3)} \\
& +D_3^+\Phi_{(A_2,B_{10},C_{11})} \\
& +A_2^+D_3^+\Phi_{(B_{10},C_{11})} \\
& +B_{10}^+C_{11}^+\Phi_{(A_2,D_3)} \\
& +A_2^+B_{10}^+C_{11}^+\Phi_{(D_3,)} \\
& +B_{10}^+C_{11}^+D_3^+\Phi_{(A_2,)} \\
& +A_2^+B_{10}^+C_{11}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2,B_{10},C_{12},D_1)} = \\
& +A_2^+\Phi_{(B_{10},C_{12},D_1)} \\
& +D_1^+\Phi_{(A_2,B_{10},C_{12})} \\
& +A_2^+D_1^+\Phi_{(B_{10},C_{12})} \\
& +B_{10}^+C_{12}^+\Phi_{(A_2,D_1)} \\
& +A_2^+B_{10}^+C_{12}^+\Phi_{(D_1,)} \\
& +B_{10}^+C_{12}^+D_1^+\Phi_{(A_2,)} \\
& +A_2^+B_{10}^+C_{12}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2,B_{10},C_{12},D_2)} = \\
& +A_2^+\Phi_{(B_{10},C_{12},D_2)} \\
& +D_2^+\Phi_{(A_2,B_{10},C_{12})} \\
& +A_2^+D_2^+\Phi_{(B_{10},C_{12})} \\
& +B_{10}^+C_{12}^+\Phi_{(A_2,D_2)} \\
& +A_2^+B_{10}^+C_{12}^+\Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +B_{10}^+C_{12}^+D_2^+\Phi_{(A_2,)} \\
& +A_2^+B_{10}^+C_{12}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{10},C_{12},D_3)} = \\
& +A_2^+\Phi_{(B_{10},C_{12},D_3)} \\
& +D_3^+\Phi_{(A_2,B_{10},C_{12})} \\
& +A_2^+D_3^+\Phi_{(B_{10},C_{12})} \\
& +B_{10}^+C_{12}^+\Phi_{(A_2,D_3)} \\
& +A_2^+B_{10}^+C_{12}^+\Phi_{(D_3,)} \\
& +B_{10}^+C_{12}^+D_3^+\Phi_{(A_2,)} \\
& +A_2^+B_{10}^+C_{12}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{10},C_{13},D_4)} = \\
& +A_2^+\Phi_{(B_{10},C_{13},D_4)} \\
& +B_{10}^+C_{13}^+D_4^+\Phi_{(A_2,)} \\
& +A_2^+B_{10}^+C_{13}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{10},C_{14},D_4)} = \\
& +A_2^+\Phi_{(B_{10},C_{14},D_4)} \\
& +B_{10}^+C_{14}^+D_4^+\Phi_{(A_2,)} \\
& +A_2^+B_{10}^+C_{14}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{10},C_{15},D_7)} = \\
& +A_2^+\Phi_{(B_{10},C_{15},D_7)} \\
& +B_{10}^+C_{15}^+D_7^+\Phi_{(A_2,)} \\
& +A_2^+B_{10}^+C_{15}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{10},C_{15},D_8)} = \\
& +A_2^+\Phi_{(B_{10},C_{15},D_8)}
\end{aligned}$$

$$+B_{10}^+C_{15}^+D_8^+\Phi_{(A_2,)}$$

$$+A_2^+B_{10}^+C_{15}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_2,B_{11},C_1,D_9)} =$$

$$+A_2^+\Phi_{(B_{11},C_1,D_9)}$$

$$+C_1^+\Phi_{(A_2,B_{11},D_9)}$$

$$+A_2^+C_1^+\Phi_{(B_{11},D_9)}$$

$$+B_{11}^+D_9^+\Phi_{(A_2,C_1)}$$

$$+A_2^+B_{11}^+D_9^+\Phi_{(C_1,)}$$

$$+B_{11}^+C_1^+D_9^+\Phi_{(A_2,)}$$

$$+A_2^+B_{11}^+C_1^+D_9^+\Phi_{()}$$

$$\Phi_{(A_2,B_{11},C_1,D_{10})} =$$

$$+A_2^+\Phi_{(B_{11},C_1,D_{10})}$$

$$+C_1^+\Phi_{(A_2,B_{11},D_{10})}$$

$$+A_2^+C_1^+\Phi_{(B_{11},D_{10})}$$

$$+B_{11}^+D_{10}^+\Phi_{(A_2,C_1)}$$

$$+A_2^+B_{11}^+D_{10}^+\Phi_{(C_1,)}$$

$$+B_{11}^+C_1^+D_{10}^+\Phi_{(A_2,)}$$

$$+A_2^+B_{11}^+C_1^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_2,B_{11},C_2,D_9)} =$$

$$+A_2^+\Phi_{(B_{11},C_2,D_9)}$$

$$+C_2^+\Phi_{(A_2,B_{11},D_9)}$$

$$+A_2^+C_2^+\Phi_{(B_{11},D_9)}$$

$$+B_{11}^+D_9^+\Phi_{(A_2,C_2)}$$

$$+A_2^+B_{11}^+D_9^+\Phi_{(C_2,)}$$

$$+B_{11}^+C_2^+D_9^+\Phi_{(A_2,)}$$

$$+A_2^+B_{11}^+C_2^+D_9^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{11}, C_2, D_{10})} = \\
&+ A_2^+ \Phi_{(B_{11}, C_2, D_{10})} \\
&+ C_2^+ \Phi_{(A_2, B_{11}, D_{10})} \\
&+ A_2^+ C_2^+ \Phi_{(B_{11}, D_{10})} \\
&+ B_{11}^+ D_{10}^+ \Phi_{(A_2, C_2)} \\
&+ A_2^+ B_{11}^+ D_{10}^+ \Phi_{(C_2,)} \\
&+ B_{11}^+ C_2^+ D_{10}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{11}^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{11}, C_3, D_9)} = \\
&+ A_2^+ \Phi_{(B_{11}, C_3, D_9)} \\
&+ C_3^+ \Phi_{(A_2, B_{11}, D_9)} \\
&+ A_2^+ C_3^+ \Phi_{(B_{11}, D_9)} \\
&+ B_{11}^+ D_9^+ \Phi_{(A_2, C_3)} \\
&+ A_2^+ B_{11}^+ D_9^+ \Phi_{(C_3,)} \\
&+ B_{11}^+ C_3^+ D_9^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{11}^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{11}, C_3, D_{10})} = \\
&+ A_2^+ \Phi_{(B_{11}, C_3, D_{10})} \\
&+ C_3^+ \Phi_{(A_2, B_{11}, D_{10})} \\
&+ A_2^+ C_3^+ \Phi_{(B_{11}, D_{10})} \\
&+ B_{11}^+ D_{10}^+ \Phi_{(A_2, C_3)} \\
&+ A_2^+ B_{11}^+ D_{10}^+ \Phi_{(C_3,)} \\
&+ B_{11}^+ C_3^+ D_{10}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{11}^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_2, B_{11}, C_5, D_7)} =$$

$$\begin{aligned}
& +A_2^+ \Phi_{(B_{11}, C_5, D_7)} \\
& +B_{11}^+ C_5^+ D_7^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_5^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_5, D_8)} = \\
& +A_2^+ \Phi_{(B_{11}, C_5, D_8)} \\
& +B_{11}^+ C_5^+ D_8^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_5^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_6, D_{13})} = \\
& +A_2^+ \Phi_{(B_{11}, C_6, D_{13})} \\
& +B_{11}^+ C_6^+ D_{13}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_6^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_6, D_{14})} = \\
& +A_2^+ \Phi_{(B_{11}, C_6, D_{14})} \\
& +B_{11}^+ C_6^+ D_{14}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_6^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_7, D_5)} = \\
& +A_2^+ \Phi_{(B_{11}, C_7, D_5)} \\
& +B_{11}^+ C_7^+ D_5^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_7^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_8, D_5)} = \\
& +A_2^+ \Phi_{(B_{11}, C_8, D_5)} \\
& +B_{11}^+ C_8^+ D_5^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_9, D_1)} = \\
& + A_2^+ \Phi_{(B_{11}, C_9, D_1)} \\
& + D_1^+ \Phi_{(A_2, B_{11}, C_9)} \\
& + A_2^+ D_1^+ \Phi_{(B_{11}, C_9)} \\
& + B_{11}^+ C_9^+ \Phi_{(A_2, D_1)} \\
& + A_2^+ B_{11}^+ C_9^+ \Phi_{(D_1,)} \\
& + B_{11}^+ C_9^+ D_1^+ \Phi_{(A_2,)} \\
& + A_2^+ B_{11}^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_9, D_2)} = \\
& + A_2^+ \Phi_{(B_{11}, C_9, D_2)} \\
& + D_2^+ \Phi_{(A_2, B_{11}, C_9)} \\
& + A_2^+ D_2^+ \Phi_{(B_{11}, C_9)} \\
& + B_{11}^+ C_9^+ \Phi_{(A_2, D_2)} \\
& + A_2^+ B_{11}^+ C_9^+ \Phi_{(D_2,)} \\
& + B_{11}^+ C_9^+ D_2^+ \Phi_{(A_2,)} \\
& + A_2^+ B_{11}^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_9, D_3)} = \\
& + A_2^+ \Phi_{(B_{11}, C_9, D_3)} \\
& + D_3^+ \Phi_{(A_2, B_{11}, C_9)} \\
& + A_2^+ D_3^+ \Phi_{(B_{11}, C_9)} \\
& + B_{11}^+ C_9^+ \Phi_{(A_2, D_3)} \\
& + A_2^+ B_{11}^+ C_9^+ \Phi_{(D_3,)} \\
& + B_{11}^+ C_9^+ D_3^+ \Phi_{(A_2,)} \\
& + A_2^+ B_{11}^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_{10}, D_1)} = \\
& + A_2^+ \Phi_{(B_{11}, C_{10}, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_2, B_{11}, C_{10})} \\
& +A_2^+ D_1^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_2, D_1)} \\
& +A_2^+ B_{11}^+ C_{10}^+ \Phi_{(D_1,)} \\
& +B_{11}^+ C_{10}^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_{10}, D_2)} = \\
& +A_2^+ \Phi_{(B_{11}, C_{10}, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_{11}, C_{10})} \\
& +A_2^+ D_2^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_2, D_2)} \\
& +A_2^+ B_{11}^+ C_{10}^+ \Phi_{(D_2,)} \\
& +B_{11}^+ C_{10}^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_{10}, D_3)} = \\
& +A_2^+ \Phi_{(B_{11}, C_{10}, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_{11}, C_{10})} \\
& +A_2^+ D_3^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_2, D_3)} \\
& +A_2^+ B_{11}^+ C_{10}^+ \Phi_{(D_3,)} \\
& +B_{11}^+ C_{10}^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{11}, C_{13}, D_6)} = \\
& +A_2^+ \Phi_{(B_{11}, C_{13}, D_6)} \\
& +B_{11}^+ C_{13}^+ D_6^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{11}^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{11}, C_{14}, D_6)} = \\
&+ A_2^+ \Phi_{(B_{11}, C_{14}, D_6)} \\
&+ B_{11}^+ C_{14}^+ D_6^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{11}^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{12}, C_1, D_9)} = \\
&+ A_2^+ \Phi_{(B_{12}, C_1, D_9)} \\
&+ C_1^+ \Phi_{(A_2, B_{12}, D_9)} \\
&+ A_2^+ C_1^+ \Phi_{(B_{12}, D_9)} \\
&+ B_{12}^+ D_9^+ \Phi_{(A_2, C_1)} \\
&+ A_2^+ B_{12}^+ D_9^+ \Phi_{(C_1,)} \\
&+ B_{12}^+ C_1^+ D_9^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{12}^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{12}, C_1, D_{10})} = \\
&+ A_2^+ \Phi_{(B_{12}, C_1, D_{10})} \\
&+ C_1^+ \Phi_{(A_2, B_{12}, D_{10})} \\
&+ A_2^+ C_1^+ \Phi_{(B_{12}, D_{10})} \\
&+ B_{12}^+ D_{10}^+ \Phi_{(A_2, C_1)} \\
&+ A_2^+ B_{12}^+ D_{10}^+ \Phi_{(C_1,)} \\
&+ B_{12}^+ C_1^+ D_{10}^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{12}^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{12}, C_2, D_9)} = \\
&+ A_2^+ \Phi_{(B_{12}, C_2, D_9)} \\
&+ C_2^+ \Phi_{(A_2, B_{12}, D_9)} \\
&+ A_2^+ C_2^+ \Phi_{(B_{12}, D_9)} \\
&+ B_{12}^+ D_9^+ \Phi_{(A_2, C_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_{12}^+ D_9^+ \Phi_{(C_2,)} \\
& +B_{12}^+ C_2^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{12}^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_{12}, C_2, D_{10})} = \\
& +A_2^+ \Phi_{(B_{12}, C_2, D_{10})} \\
& +C_2^+ \Phi_{(A_2, B_{12}, D_{10})} \\
& +A_2^+ C_2^+ \Phi_{(B_{12}, D_{10})} \\
& +B_{12}^+ D_{10}^+ \Phi_{(A_2, C_2)} \\
& +A_2^+ B_{12}^+ D_{10}^+ \Phi_{(C_2,)} \\
& +B_{12}^+ C_2^+ D_{10}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{12}^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_{12}, C_3, D_9)} = \\
& +A_2^+ \Phi_{(B_{12}, C_3, D_9)} \\
& +C_3^+ \Phi_{(A_2, B_{12}, D_9)} \\
& +A_2^+ C_3^+ \Phi_{(B_{12}, D_9)} \\
& +B_{12}^+ D_9^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_{12}^+ D_9^+ \Phi_{(C_3,)} \\
& +B_{12}^+ C_3^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{12}^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_{12}, C_3, D_{10})} = \\
& +A_2^+ \Phi_{(B_{12}, C_3, D_{10})} \\
& +C_3^+ \Phi_{(A_2, B_{12}, D_{10})} \\
& +A_2^+ C_3^+ \Phi_{(B_{12}, D_{10})} \\
& +B_{12}^+ D_{10}^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_{12}^+ D_{10}^+ \Phi_{(C_3,)} \\
& +B_{12}^+ C_3^+ D_{10}^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_{12}^+ C_3^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{12}, C_5, D_7)} =$$

$$+A_2^+ \Phi_{(B_{12}, C_5, D_7)} \\$$

$$+B_{12}^+ C_5^+ D_7^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{12}^+ C_5^+ D_7^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{12}, C_5, D_8)} =$$

$$+A_2^+ \Phi_{(B_{12}, C_5, D_8)} \\$$

$$+B_{12}^+ C_5^+ D_8^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{12}^+ C_5^+ D_8^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{12}, C_6, D_{13})} =$$

$$+A_2^+ \Phi_{(B_{12}, C_6, D_{13})} \\$$

$$+B_{12}^+ C_6^+ D_{13}^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{12}^+ C_6^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{12}, C_6, D_{14})} =$$

$$+A_2^+ \Phi_{(B_{12}, C_6, D_{14})} \\$$

$$+B_{12}^+ C_6^+ D_{14}^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{12}^+ C_6^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{12}, C_7, D_5)} =$$

$$+A_2^+ \Phi_{(B_{12}, C_7, D_5)} \\$$

$$+B_{12}^+ C_7^+ D_5^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{12}^+ C_7^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{12}, C_8, D_5)} =$$

$$+A_2^+ \Phi_{(B_{12}, C_8, D_5)} \\$$

$$\begin{aligned}
& +B_{12}^+C_8^+D_5^+\Phi_{(A_2,)} \\
& +A_2^+B_{12}^+C_8^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{12},C_9,D_1)} = \\
& +A_2^+\Phi_{(B_{12},C_9,D_1)} \\
& +D_1^+\Phi_{(A_2,B_{12},C_9)} \\
& +A_2^+D_1^+\Phi_{(B_{12},C_9)} \\
& +B_{12}^+C_9^+\Phi_{(A_2,D_1)} \\
& +A_2^+B_{12}^+C_9^+\Phi_{(D_1,)} \\
& +B_{12}^+C_9^+D_1^+\Phi_{(A_2,)} \\
& +A_2^+B_{12}^+C_9^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{12},C_9,D_2)} = \\
& +A_2^+\Phi_{(B_{12},C_9,D_2)} \\
& +D_2^+\Phi_{(A_2,B_{12},C_9)} \\
& +A_2^+D_2^+\Phi_{(B_{12},C_9)} \\
& +B_{12}^+C_9^+\Phi_{(A_2,D_2)} \\
& +A_2^+B_{12}^+C_9^+\Phi_{(D_2,)} \\
& +B_{12}^+C_9^+D_2^+\Phi_{(A_2,)} \\
& +A_2^+B_{12}^+C_9^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{12},C_9,D_3)} = \\
& +A_2^+\Phi_{(B_{12},C_9,D_3)} \\
& +D_3^+\Phi_{(A_2,B_{12},C_9)} \\
& +A_2^+D_3^+\Phi_{(B_{12},C_9)} \\
& +B_{12}^+C_9^+\Phi_{(A_2,D_3)} \\
& +A_2^+B_{12}^+C_9^+\Phi_{(D_3,)} \\
& +B_{12}^+C_9^+D_3^+\Phi_{(A_2,)} \\
& +A_2^+B_{12}^+C_9^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_{12}, C_{10}, D_1)} = & \\
& + A_2^+ \Phi_{(B_{12}, C_{10}, D_1)} \\
& + D_1^+ \Phi_{(A_2, B_{12}, C_{10})} \\
& + A_2^+ D_1^+ \Phi_{(B_{12}, C_{10})} \\
& + B_{12}^+ C_{10}^+ \Phi_{(A_2, D_1)} \\
& + A_2^+ B_{12}^+ C_{10}^+ \Phi_{(D_1,)} \\
& + B_{12}^+ C_{10}^+ D_1^+ \Phi_{(A_2,)} \\
& + A_2^+ B_{12}^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_{12}, C_{10}, D_2)} = & \\
& + A_2^+ \Phi_{(B_{12}, C_{10}, D_2)} \\
& + D_2^+ \Phi_{(A_2, B_{12}, C_{10})} \\
& + A_2^+ D_2^+ \Phi_{(B_{12}, C_{10})} \\
& + B_{12}^+ C_{10}^+ \Phi_{(A_2, D_2)} \\
& + A_2^+ B_{12}^+ C_{10}^+ \Phi_{(D_2,)} \\
& + B_{12}^+ C_{10}^+ D_2^+ \Phi_{(A_2,)} \\
& + A_2^+ B_{12}^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_{12}, C_{10}, D_3)} = & \\
& + A_2^+ \Phi_{(B_{12}, C_{10}, D_3)} \\
& + D_3^+ \Phi_{(A_2, B_{12}, C_{10})} \\
& + A_2^+ D_3^+ \Phi_{(B_{12}, C_{10})} \\
& + B_{12}^+ C_{10}^+ \Phi_{(A_2, D_3)} \\
& + A_2^+ B_{12}^+ C_{10}^+ \Phi_{(D_3,)} \\
& + B_{12}^+ C_{10}^+ D_3^+ \Phi_{(A_2,)} \\
& + A_2^+ B_{12}^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_2, B_{12}, C_{13}, D_6)} =$$

$$\begin{aligned}
& +A_2^+ \Phi_{(B_{12}, C_{13}, D_6)} \\
& +B_{12}^+ C_{13}^+ D_6^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{12}^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{12}, C_{14}, D_6)} = \\
& +A_2^+ \Phi_{(B_{12}, C_{14}, D_6)} \\
& +B_{12}^+ C_{14}^+ D_6^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{12}^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_1, D_7)} = \\
& +A_2^+ \Phi_{(B_{13}, C_1, D_7)} \\
& +C_1^+ \Phi_{(A_2, B_{13}, D_7)} \\
& +A_2^+ C_1^+ \Phi_{(B_{13}, D_7)} \\
& +B_{13}^+ D_7^+ \Phi_{(A_2, C_1)} \\
& +A_2^+ B_{13}^+ D_7^+ \Phi_{(C_1,)} \\
& +B_{13}^+ C_1^+ D_7^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_1, D_8)} = \\
& +A_2^+ \Phi_{(B_{13}, C_1, D_8)} \\
& +C_1^+ \Phi_{(A_2, B_{13}, D_8)} \\
& +A_2^+ C_1^+ \Phi_{(B_{13}, D_8)} \\
& +B_{13}^+ D_8^+ \Phi_{(A_2, C_1)} \\
& +A_2^+ B_{13}^+ D_8^+ \Phi_{(C_1,)} \\
& +B_{13}^+ C_1^+ D_8^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_2, D_7)} = \\
& +A_2^+ \Phi_{(B_{13}, C_2, D_7)}
\end{aligned}$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_2, B_{13}, D_7)} \\
& +A_2^+ C_2^+ \Phi_{(B_{13}, D_7)} \\
& +B_{13}^+ D_7^+ \Phi_{(A_2, C_2)} \\
& +A_2^+ B_{13}^+ D_7^+ \Phi_{(C_2,)} \\
& +B_{13}^+ C_2^+ D_7^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_2, D_8)} = \\
& +A_2^+ \Phi_{(B_{13}, C_2, D_8)} \\
& +C_2^+ \Phi_{(A_2, B_{13}, D_8)} \\
& +A_2^+ C_2^+ \Phi_{(B_{13}, D_8)} \\
& +B_{13}^+ D_8^+ \Phi_{(A_2, C_2)} \\
& +A_2^+ B_{13}^+ D_8^+ \Phi_{(C_2,)} \\
& +B_{13}^+ C_2^+ D_8^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_3, D_7)} = \\
& +A_2^+ \Phi_{(B_{13}, C_3, D_7)} \\
& +C_3^+ \Phi_{(A_2, B_{13}, D_7)} \\
& +A_2^+ C_3^+ \Phi_{(B_{13}, D_7)} \\
& +B_{13}^+ D_7^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_{13}^+ D_7^+ \Phi_{(C_3,)} \\
& +B_{13}^+ C_3^+ D_7^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_3, D_8)} = \\
& +A_2^+ \Phi_{(B_{13}, C_3, D_8)} \\
& +C_3^+ \Phi_{(A_2, B_{13}, D_8)} \\
& +A_2^+ C_3^+ \Phi_{(B_{13}, D_8)}
\end{aligned}$$

$$\begin{aligned}
& +B_{13}^+ D_8^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_{13}^+ D_8^+ \Phi_{(C_3,)} \\
& +B_{13}^+ C_3^+ D_8^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_4, D_9)} = \\
& +A_2^+ \Phi_{(B_{13}, C_4, D_9)} \\
& +B_{13}^+ C_4^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_4, D_{10})} = \\
& +A_2^+ \Phi_{(B_{13}, C_4, D_{10})} \\
& +B_{13}^+ C_4^+ D_{10}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_6, D_{11})} = \\
& +A_2^+ \Phi_{(B_{13}, C_6, D_{11})} \\
& +B_{13}^+ C_6^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_6, D_{12})} = \\
& +A_2^+ \Phi_{(B_{13}, C_6, D_{12})} \\
& +B_{13}^+ C_6^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{13}^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{13}, C_7, D_1)} = \\
& +A_2^+ \Phi_{(B_{13}, C_7, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_{13}, C_7)} \\
& +A_2^+ D_1^+ \Phi_{(B_{13}, C_7)}
\end{aligned}$$

$$\begin{aligned}
& +B_{13}^+C_7^+\Phi_{(A_2,D_1)} \\
& +A_2^+B_{13}^+C_7^+\Phi_{(D_1,)} \\
& +B_{13}^+C_7^+D_1^+\Phi_{(A_2,)} \\
& +A_2^+B_{13}^+C_7^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2,B_{13},C_7,D_2)} = \\
& +A_2^+\Phi_{(B_{13},C_7,D_2)} \\
& +D_2^+\Phi_{(A_2,B_{13},C_7)} \\
& +A_2^+D_2^+\Phi_{(B_{13},C_7)} \\
& +B_{13}^+C_7^+\Phi_{(A_2,D_2)} \\
& +A_2^+B_{13}^+C_7^+\Phi_{(D_2,)} \\
& +B_{13}^+C_7^+D_2^+\Phi_{(A_2,)} \\
& +A_2^+B_{13}^+C_7^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2,B_{13},C_7,D_3)} = \\
& +A_2^+\Phi_{(B_{13},C_7,D_3)} \\
& +D_3^+\Phi_{(A_2,B_{13},C_7)} \\
& +A_2^+D_3^+\Phi_{(B_{13},C_7)} \\
& +B_{13}^+C_7^+\Phi_{(A_2,D_3)} \\
& +A_2^+B_{13}^+C_7^+\Phi_{(D_3,)} \\
& +B_{13}^+C_7^+D_3^+\Phi_{(A_2,)} \\
& +A_2^+B_{13}^+C_7^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2,B_{13},C_8,D_1)} = \\
& +A_2^+\Phi_{(B_{13},C_8,D_1)} \\
& +D_1^+\Phi_{(A_2,B_{13},C_8)} \\
& +A_2^+D_1^+\Phi_{(B_{13},C_8)} \\
& +B_{13}^+C_8^+\Phi_{(A_2,D_1)} \\
& +A_2^+B_{13}^+C_8^+\Phi_{(D_1,)}
\end{aligned}$$

$$\begin{aligned}
& +B_{13}^+C_8^+D_1^+\Phi_{(A_2,)} \\
& +A_2^+B_{13}^+C_8^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{13},C_8,D_2)} = \\
& +A_2^+\Phi_{(B_{13},C_8,D_2)} \\
& +D_2^+\Phi_{(A_2,B_{13},C_8)} \\
& +A_2^+D_2^+\Phi_{(B_{13},C_8)} \\
& +B_{13}^+C_8^+\Phi_{(A_2,D_2)} \\
& +A_2^+B_{13}^+C_8^+\Phi_{(D_2,)} \\
& +B_{13}^+C_8^+D_2^+\Phi_{(A_2,)} \\
& +A_2^+B_{13}^+C_8^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{13},C_8,D_3)} = \\
& +A_2^+\Phi_{(B_{13},C_8,D_3)} \\
& +D_3^+\Phi_{(A_2,B_{13},C_8)} \\
& +A_2^+D_3^+\Phi_{(B_{13},C_8)} \\
& +B_{13}^+C_8^+\Phi_{(A_2,D_3)} \\
& +A_2^+B_{13}^+C_8^+\Phi_{(D_3,)} \\
& +B_{13}^+C_8^+D_3^+\Phi_{(A_2,)} \\
& +A_2^+B_{13}^+C_8^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{13},C_9,D_4)} = \\
& +A_2^+\Phi_{(B_{13},C_9,D_4)} \\
& +B_{13}^+C_9^+D_4^+\Phi_{(A_2,)} \\
& +A_2^+B_{13}^+C_9^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2,B_{13},C_{10},D_4)} = \\
& +A_2^+\Phi_{(B_{13},C_{10},D_4)} \\
& +B_{13}^+C_{10}^+D_4^+\Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_{13}^+ C_{10}^+ D_4^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{13}, C_{11}, D_6)} =$$

$$+A_2^+ \Phi_{(B_{13}, C_{11}, D_6)} \\$$

$$+B_{13}^+ C_{11}^+ D_6^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{13}^+ C_{11}^+ D_6^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{13}, C_{12}, D_6)} =$$

$$+A_2^+ \Phi_{(B_{13}, C_{12}, D_6)} \\$$

$$+B_{13}^+ C_{12}^+ D_6^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{13}^+ C_{12}^+ D_6^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{14}, C_1, D_7)} =$$

$$+A_2^+ \Phi_{(B_{14}, C_1, D_7)} \\$$

$$+C_1^+ \Phi_{(A_2, B_{14}, D_7)} \\$$

$$+A_2^+ C_1^+ \Phi_{(B_{14}, D_7)} \\$$

$$+B_{14}^+ D_7^+ \Phi_{(A_2, C_1)} \\$$

$$+A_2^+ B_{14}^+ D_7^+ \Phi_{(C_1,)} \\$$

$$+B_{14}^+ C_1^+ D_7^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{14}^+ C_1^+ D_7^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{14}, C_1, D_8)} =$$

$$+A_2^+ \Phi_{(B_{14}, C_1, D_8)} \\$$

$$+C_1^+ \Phi_{(A_2, B_{14}, D_8)} \\$$

$$+A_2^+ C_1^+ \Phi_{(B_{14}, D_8)} \\$$

$$+B_{14}^+ D_8^+ \Phi_{(A_2, C_1)} \\$$

$$+A_2^+ B_{14}^+ D_8^+ \Phi_{(C_1,)} \\$$

$$+B_{14}^+ C_1^+ D_8^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{14}^+ C_1^+ D_8^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_2, B_{14}, C_2, D_7)} = \\
&+ A_2^+ \Phi_{(B_{14}, C_2, D_7)} \\
&+ C_2^+ \Phi_{(A_2, B_{14}, D_7)} \\
&+ A_2^+ C_2^+ \Phi_{(B_{14}, D_7)} \\
&+ B_{14}^+ D_7^+ \Phi_{(A_2, C_2)} \\
&+ A_2^+ B_{14}^+ D_7^+ \Phi_{(C_2,)} \\
&+ B_{14}^+ C_2^+ D_7^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{14}^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{14}, C_2, D_8)} = \\
&+ A_2^+ \Phi_{(B_{14}, C_2, D_8)} \\
&+ C_2^+ \Phi_{(A_2, B_{14}, D_8)} \\
&+ A_2^+ C_2^+ \Phi_{(B_{14}, D_8)} \\
&+ B_{14}^+ D_8^+ \Phi_{(A_2, C_2)} \\
&+ A_2^+ B_{14}^+ D_8^+ \Phi_{(C_2,)} \\
&+ B_{14}^+ C_2^+ D_8^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{14}^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{14}, C_3, D_7)} = \\
&+ A_2^+ \Phi_{(B_{14}, C_3, D_7)} \\
&+ C_3^+ \Phi_{(A_2, B_{14}, D_7)} \\
&+ A_2^+ C_3^+ \Phi_{(B_{14}, D_7)} \\
&+ B_{14}^+ D_7^+ \Phi_{(A_2, C_3)} \\
&+ A_2^+ B_{14}^+ D_7^+ \Phi_{(C_3,)} \\
&+ B_{14}^+ C_3^+ D_7^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{14}^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_2, B_{14}, C_3, D_8)} =$$

$$\begin{aligned}
& +A_2^+ \Phi_{(B_{14}, C_3, D_8)} \\
& +C_3^+ \Phi_{(A_2, B_{14}, D_8)} \\
& +A_2^+ C_3^+ \Phi_{(B_{14}, D_8)} \\
& +B_{14}^+ D_8^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_{14}^+ D_8^+ \Phi_{(C_3,)} \\
& +B_{14}^+ C_3^+ D_8^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_4, D_9)} = \\
& +A_2^+ \Phi_{(B_{14}, C_4, D_9)} \\
& +B_{14}^+ C_4^+ D_9^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_4, D_{10})} = \\
& +A_2^+ \Phi_{(B_{14}, C_4, D_{10})} \\
& +B_{14}^+ C_4^+ D_{10}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_6, D_{11})} = \\
& +A_2^+ \Phi_{(B_{14}, C_6, D_{11})} \\
& +B_{14}^+ C_6^+ D_{11}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_6, D_{12})} = \\
& +A_2^+ \Phi_{(B_{14}, C_6, D_{12})} \\
& +B_{14}^+ C_6^+ D_{12}^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_2, B_{14}, C_7, D_1)} =$$

$$\begin{aligned}
& +A_2^+ \Phi_{(B_{14}, C_7, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_{14}, C_7)} \\
& +A_2^+ D_1^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_2, D_1)} \\
& +A_2^+ B_{14}^+ C_7^+ \Phi_{(D_1,)} \\
& +B_{14}^+ C_7^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_7^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_7, D_2)} = \\
& +A_2^+ \Phi_{(B_{14}, C_7, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_{14}, C_7)} \\
& +A_2^+ D_2^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_2, D_2)} \\
& +A_2^+ B_{14}^+ C_7^+ \Phi_{(D_2,)} \\
& +B_{14}^+ C_7^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_7, D_3)} = \\
& +A_2^+ \Phi_{(B_{14}, C_7, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_{14}, C_7)} \\
& +A_2^+ D_3^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_2, D_3)} \\
& +A_2^+ B_{14}^+ C_7^+ \Phi_{(D_3,)} \\
& +B_{14}^+ C_7^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_8, D_1)} = \\
& +A_2^+ \Phi_{(B_{14}, C_8, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_{14}, C_8)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ D_1^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_2, D_1)} \\
& +A_2^+ B_{14}^+ C_8^+ \Phi_{(D_1,)} \\
& +B_{14}^+ C_8^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_8, D_2)} = \\
& +A_2^+ \Phi_{(B_{14}, C_8, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_{14}, C_8)} \\
& +A_2^+ D_2^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_2, D_2)} \\
& +A_2^+ B_{14}^+ C_8^+ \Phi_{(D_2,)} \\
& +B_{14}^+ C_8^+ D_2^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_8, D_3)} = \\
& +A_2^+ \Phi_{(B_{14}, C_8, D_3)} \\
& +D_3^+ \Phi_{(A_2, B_{14}, C_8)} \\
& +A_2^+ D_3^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_2, D_3)} \\
& +A_2^+ B_{14}^+ C_8^+ \Phi_{(D_3,)} \\
& +B_{14}^+ C_8^+ D_3^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_2, B_{14}, C_9, D_4)} = \\
& +A_2^+ \Phi_{(B_{14}, C_9, D_4)} \\
& +B_{14}^+ C_9^+ D_4^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{14}^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{14}, C_{10}, D_4)} = \\
&+ A_2^+ \Phi_{(B_{14}, C_{10}, D_4)} \\
&+ B_{14}^+ C_{10}^+ D_4^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{14}^+ C_{10}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{14}, C_{11}, D_6)} = \\
&+ A_2^+ \Phi_{(B_{14}, C_{11}, D_6)} \\
&+ B_{14}^+ C_{11}^+ D_6^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{14}^+ C_{11}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{14}, C_{12}, D_6)} = \\
&+ A_2^+ \Phi_{(B_{14}, C_{12}, D_6)} \\
&+ B_{14}^+ C_{12}^+ D_6^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{14}^+ C_{12}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{15}, C_1, D_6)} = \\
&+ A_2^+ \Phi_{(B_{15}, C_1, D_6)} \\
&+ C_1^+ \Phi_{(A_2, B_{15}, D_6)} \\
&+ A_2^+ C_1^+ \Phi_{(B_{15}, D_6)} \\
&+ B_{15}^+ D_6^+ \Phi_{(A_2, C_1)} \\
&+ A_2^+ B_{15}^+ D_6^+ \Phi_{(C_1,)} \\
&+ B_{15}^+ C_1^+ D_6^+ \Phi_{(A_2,)} \\
&+ A_2^+ B_{15}^+ C_1^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_2, B_{15}, C_2, D_6)} = \\
&+ A_2^+ \Phi_{(B_{15}, C_2, D_6)} \\
&+ C_2^+ \Phi_{(A_2, B_{15}, D_6)} \\
&+ A_2^+ C_2^+ \Phi_{(B_{15}, D_6)} \\
&+ B_{15}^+ D_6^+ \Phi_{(A_2, C_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_2^+ B_{15}^+ D_6^+ \Phi_{(C_2,)} \\
& +B_{15}^+ C_2^+ D_6^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{15}^+ C_2^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_{15}, C_3, D_6)} = \\
& +A_2^+ \Phi_{(B_{15}, C_3, D_6)} \\
& +C_3^+ \Phi_{(A_2, B_{15}, D_6)} \\
& +A_2^+ C_3^+ \Phi_{(B_{15}, D_6)} \\
& +B_{15}^+ D_6^+ \Phi_{(A_2, C_3)} \\
& +A_2^+ B_{15}^+ D_6^+ \Phi_{(C_3,)} \\
& +B_{15}^+ C_3^+ D_6^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{15}^+ C_3^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_{15}, C_6, D_1)} = \\
& +A_2^+ \Phi_{(B_{15}, C_6, D_1)} \\
& +D_1^+ \Phi_{(A_2, B_{15}, C_6)} \\
& +A_2^+ D_1^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_2, D_1)} \\
& +A_2^+ B_{15}^+ C_6^+ \Phi_{(D_1,)} \\
& +B_{15}^+ C_6^+ D_1^+ \Phi_{(A_2,)} \\
& +A_2^+ B_{15}^+ C_6^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_2, B_{15}, C_6, D_2)} = \\
& +A_2^+ \Phi_{(B_{15}, C_6, D_2)} \\
& +D_2^+ \Phi_{(A_2, B_{15}, C_6)} \\
& +A_2^+ D_2^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_2, D_2)} \\
& +A_2^+ B_{15}^+ C_6^+ \Phi_{(D_2,)} \\
& +B_{15}^+ C_6^+ D_2^+ \Phi_{(A_2,)}
\end{aligned}$$

$$+A_2^+ B_{15}^+ C_6^+ D_2^+ \Phi_{()}$$

$$\Phi_{(A_2, B_{15}, C_6, D_3)} =$$

$$+A_2^+ \Phi_{(B_{15}, C_6, D_3)}$$

$$+D_3^+ \Phi_{(A_2, B_{15}, C_6)}$$

$$+A_2^+ D_3^+ \Phi_{(B_{15}, C_6)}$$

$$+B_{15}^+ C_6^+ \Phi_{(A_2, D_3)}$$

$$+A_2^+ B_{15}^+ C_6^+ \Phi_{(D_3,)}$$

$$+B_{15}^+ C_6^+ D_3^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_{15}^+ C_6^+ D_3^+ \Phi_{()}$$

$$\Phi_{(A_2, B_{15}, C_7, D_9)} =$$

$$+A_2^+ \Phi_{(B_{15}, C_7, D_9)}$$

$$+B_{15}^+ C_7^+ D_9^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_{15}^+ C_7^+ D_9^+ \Phi_{()}$$

$$\Phi_{(A_2, B_{15}, C_7, D_{10})} =$$

$$+A_2^+ \Phi_{(B_{15}, C_7, D_{10})}$$

$$+B_{15}^+ C_7^+ D_{10}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_{15}^+ C_7^+ D_{10}^+ \Phi_{()}$$

$$\Phi_{(A_2, B_{15}, C_8, D_9)} =$$

$$+A_2^+ \Phi_{(B_{15}, C_8, D_9)}$$

$$+B_{15}^+ C_8^+ D_9^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_{15}^+ C_8^+ D_9^+ \Phi_{()}$$

$$\Phi_{(A_2, B_{15}, C_8, D_{10})} =$$

$$+A_2^+ \Phi_{(B_{15}, C_8, D_{10})}$$

$$+B_{15}^+ C_8^+ D_{10}^+ \Phi_{(A_2,)}$$

$$+A_2^+ B_{15}^+ C_8^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{15}, C_9, D_7)} =$$

$$+A_2^+ \Phi_{(B_{15}, C_9, D_7)} \\$$

$$+B_{15}^+ C_9^+ D_7^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{15}^+ C_9^+ D_7^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{15}, C_9, D_8)} =$$

$$+A_2^+ \Phi_{(B_{15}, C_9, D_8)} \\$$

$$+B_{15}^+ C_9^+ D_8^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{15}^+ C_9^+ D_8^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{15}, C_{10}, D_7)} =$$

$$+A_2^+ \Phi_{(B_{15}, C_{10}, D_7)} \\$$

$$+B_{15}^+ C_{10}^+ D_7^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{15}^+ C_{10}^+ D_7^+ \Phi_{()} \\$$

$$\Phi_{(A_2, B_{15}, C_{10}, D_8)} =$$

$$+A_2^+ \Phi_{(B_{15}, C_{10}, D_8)} \\$$

$$+B_{15}^+ C_{10}^+ D_8^+ \Phi_{(A_2,)} \\$$

$$+A_2^+ B_{15}^+ C_{10}^+ D_8^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_1, C_1, D_1)} =$$

$$+A_3^+ \Phi_{(B_1, C_1, D_1)} \\$$

$$+B_1^+ \Phi_{(A_3, C_1, D_1)} \\$$

$$+C_1^+ \Phi_{(A_3, B_1, D_1)} \\$$

$$+D_1^+ \Phi_{(A_3, B_1, C_1)} \\$$

$$+A_3^+ B_1^+ \Phi_{(C_1, D_1)} \\$$

$$+A_3^+ C_1^+ \Phi_{(B_1, D_1)} \\$$

$$\begin{aligned}
& +A_3^+ D_1^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_3, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ D_1^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ B_1^+ C_1^+ \Phi_{(D_1,)} \\
& +A_3^+ B_1^+ D_1^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ D_1^+ \Phi_{(B_1,)} \\
& +B_1^+ C_1^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_1, D_2)} = \\
& +A_3^+ \Phi_{(B_1, C_1, D_2)} \\
& +B_1^+ \Phi_{(A_3, C_1, D_2)} \\
& +C_1^+ \Phi_{(A_3, B_1, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_1, C_1)} \\
& +A_3^+ B_1^+ \Phi_{(C_1, D_2)} \\
& +A_3^+ C_1^+ \Phi_{(B_1, D_2)} \\
& +A_3^+ D_2^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_3, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ D_2^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ B_1^+ C_1^+ \Phi_{(D_2,)} \\
& +A_3^+ B_1^+ D_2^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ D_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_1^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_1, D_3)} = \\
& +A_3^+ \Phi_{(B_1, C_1, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_3, C_1, D_3)} \\
& +C_1^+ \Phi_{(A_3, B_1, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_1, C_1)} \\
& +A_3^+ B_1^+ \Phi_{(C_1, D_3)} \\
& +A_3^+ C_1^+ \Phi_{(B_1, D_3)} \\
& +A_3^+ D_3^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_3, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ D_3^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ B_1^+ C_1^+ \Phi_{(D_3,)} \\
& +A_3^+ B_1^+ D_3^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ D_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_1^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_2, D_1)} = \\
& +A_3^+ \Phi_{(B_1, C_2, D_1)} \\
& +B_1^+ \Phi_{(A_3, C_2, D_1)} \\
& +C_2^+ \Phi_{(A_3, B_1, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_1, C_2)} \\
& +A_3^+ B_1^+ \Phi_{(C_2, D_1)} \\
& +A_3^+ C_2^+ \Phi_{(B_1, D_1)} \\
& +A_3^+ D_1^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_3, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_3, C_2)} \\
& +C_2^+ D_1^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ B_1^+ C_2^+ \Phi_{(D_1,)} \\
& +A_3^+ B_1^+ D_1^+ \Phi_{(C_2,)} \\
& +A_3^+ C_2^+ D_1^+ \Phi_{(B_1,)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ C_2^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_1, C_2, D_2)} = & \\
& +A_3^+ \Phi_{(B_1, C_2, D_2)} \\
& +B_1^+ \Phi_{(A_3, C_2, D_2)} \\
& +C_2^+ \Phi_{(A_3, B_1, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_1, C_2)} \\
& +A_3^+ B_1^+ \Phi_{(C_2, D_2)} \\
& +A_3^+ C_2^+ \Phi_{(B_1, D_2)} \\
& +A_3^+ D_2^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_3, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_3, C_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ B_1^+ C_2^+ \Phi_{(D_2,)} \\
& +A_3^+ B_1^+ D_2^+ \Phi_{(C_2,)} \\
& +A_3^+ C_2^+ D_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_2^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_1, C_2, D_3)} = & \\
& +A_3^+ \Phi_{(B_1, C_2, D_3)} \\
& +B_1^+ \Phi_{(A_3, C_2, D_3)} \\
& +C_2^+ \Phi_{(A_3, B_1, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_1, C_2)} \\
& +A_3^+ B_1^+ \Phi_{(C_2, D_3)} \\
& +A_3^+ C_2^+ \Phi_{(B_1, D_3)} \\
& +A_3^+ D_3^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_3, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ D_3^+ \Phi_{(A_3, C_2)} \\
& +C_2^+ D_3^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ B_1^+ C_2^+ \Phi_{(D_3,)} \\
& +A_3^+ B_1^+ D_3^+ \Phi_{(C_2,)} \\
& +A_3^+ C_2^+ D_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_2^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_3, D_1)} = \\
& +A_3^+ \Phi_{(B_1, C_3, D_1)} \\
& +B_1^+ \Phi_{(A_3, C_3, D_1)} \\
& +C_3^+ \Phi_{(A_3, B_1, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_1, C_3)} \\
& +A_3^+ B_1^+ \Phi_{(C_3, D_1)} \\
& +A_3^+ C_3^+ \Phi_{(B_1, D_1)} \\
& +A_3^+ D_1^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_3, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ D_1^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ B_1^+ C_3^+ \Phi_{(D_1,)} \\
& +A_3^+ B_1^+ D_1^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ D_1^+ \Phi_{(B_1,)} \\
& +B_1^+ C_3^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_3, D_2)} = \\
& +A_3^+ \Phi_{(B_1, C_3, D_2)} \\
& +B_1^+ \Phi_{(A_3, C_3, D_2)} \\
& +C_3^+ \Phi_{(A_3, B_1, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_3, B_1, C_3)} \\
& +A_3^+ B_1^+ \Phi_{(C_3, D_2)} \\
& +A_3^+ C_3^+ \Phi_{(B_1, D_2)} \\
& +A_3^+ D_2^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_3, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ D_2^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ B_1^+ C_3^+ \Phi_{(D_2,)} \\
& +A_3^+ B_1^+ D_2^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ D_2^+ \Phi_{(B_1,)} \\
& +B_1^+ C_3^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_3, D_3)} = \\
& +A_3^+ \Phi_{(B_1, C_3, D_3)} \\
& +B_1^+ \Phi_{(A_3, C_3, D_3)} \\
& +C_3^+ \Phi_{(A_3, B_1, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_1, C_3)} \\
& +A_3^+ B_1^+ \Phi_{(C_3, D_3)} \\
& +A_3^+ C_3^+ \Phi_{(B_1, D_3)} \\
& +A_3^+ D_3^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_3, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ B_1^+ C_3^+ \Phi_{(D_3,)} \\
& +A_3^+ B_1^+ D_3^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ D_3^+ \Phi_{(B_1,)} \\
& +B_1^+ C_3^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_1, C_4, D_5)} = \\
&+ A_3^+ \Phi_{(B_1, C_4, D_5)} \\
&+ B_1^+ \Phi_{(A_3, C_4, D_5)} \\
&+ A_3^+ B_1^+ \Phi_{(C_4, D_5)} \\
&+ C_4^+ D_5^+ \Phi_{(A_3, B_1)} \\
&+ A_3^+ C_4^+ D_5^+ \Phi_{(B_1,)} \\
&+ B_1^+ C_4^+ D_5^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_1^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_1, C_5, D_4)} = \\
&+ A_3^+ \Phi_{(B_1, C_5, D_4)} \\
&+ B_1^+ \Phi_{(A_3, C_5, D_4)} \\
&+ A_3^+ B_1^+ \Phi_{(C_5, D_4)} \\
&+ C_5^+ D_4^+ \Phi_{(A_3, B_1)} \\
&+ A_3^+ C_5^+ D_4^+ \Phi_{(B_1,)} \\
&+ B_1^+ C_5^+ D_4^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_1^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_1, C_6, D_{15})} = \\
&+ A_3^+ \Phi_{(B_1, C_6, D_{15})} \\
&+ B_1^+ \Phi_{(A_3, C_6, D_{15})} \\
&+ A_3^+ B_1^+ \Phi_{(C_6, D_{15})} \\
&+ C_6^+ D_{15}^+ \Phi_{(A_3, B_1)} \\
&+ A_3^+ C_6^+ D_{15}^+ \Phi_{(B_1,)} \\
&+ B_1^+ C_6^+ D_{15}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_1^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_1, C_7, D_{13})} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_1, C_7, D_{13})} \\
& +B_1^+ \Phi_{(A_3, C_7, D_{13})} \\
& +A_3^+ B_1^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_7^+ D_{13}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_7^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_7, D_{14})} = \\
& +A_3^+ \Phi_{(B_1, C_7, D_{14})} \\
& +B_1^+ \Phi_{(A_3, C_7, D_{14})} \\
& +A_3^+ B_1^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_7^+ D_{14}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_7^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_8, D_{13})} = \\
& +A_3^+ \Phi_{(B_1, C_8, D_{13})} \\
& +B_1^+ \Phi_{(A_3, C_8, D_{13})} \\
& +A_3^+ B_1^+ \Phi_{(C_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_8^+ D_{13}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_8^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_8, D_{14})} = \\
& +A_3^+ \Phi_{(B_1, C_8, D_{14})} \\
& +B_1^+ \Phi_{(A_3, C_8, D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ B_1^+ \Phi_{(C_8, D_{14})} \\
& +C_8^+ D_{14}^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_8^+ D_{14}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_8^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_9, D_{11})} = \\
& +A_3^+ \Phi_{(B_1, C_9, D_{11})} \\
& +B_1^+ \Phi_{(A_3, C_9, D_{11})} \\
& +A_3^+ B_1^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_9^+ D_{11}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_9^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_9, D_{12})} = \\
& +A_3^+ \Phi_{(B_1, C_9, D_{12})} \\
& +B_1^+ \Phi_{(A_3, C_9, D_{12})} \\
& +A_3^+ B_1^+ \Phi_{(C_9, D_{12})} \\
& +C_9^+ D_{12}^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_9^+ D_{12}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_9^+ D_{12}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_{10}, D_{11})} = \\
& +A_3^+ \Phi_{(B_1, C_{10}, D_{11})} \\
& +B_1^+ \Phi_{(A_3, C_{10}, D_{11})} \\
& +A_3^+ B_1^+ \Phi_{(C_{10}, D_{11})} \\
& +C_{10}^+ D_{11}^+ \Phi_{(A_3, B_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ C_{10}^+ D_{11}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{10}^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_1, C_{10}, D_{12})} = \\
& +A_3^+ \Phi_{(B_1, C_{10}, D_{12})} \\
& +B_1^+ \Phi_{(A_3, C_{10}, D_{12})} \\
& +A_3^+ B_1^+ \Phi_{(C_{10}, D_{12})} \\
& +C_{10}^+ D_{12}^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_{10}^+ D_{12}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{10}^+ D_{12}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_1, C_{11}, D_9)} = \\
& +A_3^+ \Phi_{(B_1, C_{11}, D_9)} \\
& +B_1^+ \Phi_{(A_3, C_{11}, D_9)} \\
& +A_3^+ B_1^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_{11}^+ D_9^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{11}^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_1, C_{11}, D_{10})} = \\
& +A_3^+ \Phi_{(B_1, C_{11}, D_{10})} \\
& +B_1^+ \Phi_{(A_3, C_{11}, D_{10})} \\
& +A_3^+ B_1^+ \Phi_{(C_{11}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_{11}^+ D_{10}^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{11}^+ D_{10}^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_1^+ C_{11}^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_1, C_{12}, D_9)} =$$

$$+A_3^+ \Phi_{(B_1, C_{12}, D_9)}$$

$$+B_1^+ \Phi_{(A_3, C_{12}, D_9)}$$

$$+A_3^+ B_1^+ \Phi_{(C_{12}, D_9)}$$

$$+C_{12}^+ D_9^+ \Phi_{(A_3, B_1)}$$

$$+A_3^+ C_{12}^+ D_9^+ \Phi_{(B_1,)}$$

$$+B_1^+ C_{12}^+ D_9^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_1^+ C_{12}^+ D_9^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_1, C_{12}, D_{10})} =$$

$$+A_3^+ \Phi_{(B_1, C_{12}, D_{10})}$$

$$+B_1^+ \Phi_{(A_3, C_{12}, D_{10})}$$

$$+A_3^+ B_1^+ \Phi_{(C_{12}, D_{10})}$$

$$+C_{12}^+ D_{10}^+ \Phi_{(A_3, B_1)}$$

$$+A_3^+ C_{12}^+ D_{10}^+ \Phi_{(B_1,)}$$

$$+B_1^+ C_{12}^+ D_{10}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_1^+ C_{12}^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_1, C_{13}, D_7)} =$$

$$+A_3^+ \Phi_{(B_1, C_{13}, D_7)}$$

$$+B_1^+ \Phi_{(A_3, C_{13}, D_7)}$$

$$+A_3^+ B_1^+ \Phi_{(C_{13}, D_7)}$$

$$+C_{13}^+ D_7^+ \Phi_{(A_3, B_1)}$$

$$+A_3^+ C_{13}^+ D_7^+ \Phi_{(B_1,)}$$

$$+B_1^+ C_{13}^+ D_7^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_1^+ C_{13}^+ D_7^+ \Phi_{()} \\$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_{13}, D_8)} = \\
& + A_3^+ \Phi_{(B_1, C_{13}, D_8)} \\
& + B_1^+ \Phi_{(A_3, C_{13}, D_8)} \\
& + A_3^+ B_1^+ \Phi_{(C_{13}, D_8)} \\
& + C_{13}^+ D_8^+ \Phi_{(A_3, B_1)} \\
& + A_3^+ C_{13}^+ D_8^+ \Phi_{(B_1,)} \\
& + B_1^+ C_{13}^+ D_8^+ \Phi_{(A_3,)} \\
& + A_3^+ B_1^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_{14}, D_7)} = \\
& + A_3^+ \Phi_{(B_1, C_{14}, D_7)} \\
& + B_1^+ \Phi_{(A_3, C_{14}, D_7)} \\
& + A_3^+ B_1^+ \Phi_{(C_{14}, D_7)} \\
& + C_{14}^+ D_7^+ \Phi_{(A_3, B_1)} \\
& + A_3^+ C_{14}^+ D_7^+ \Phi_{(B_1,)} \\
& + B_1^+ C_{14}^+ D_7^+ \Phi_{(A_3,)} \\
& + A_3^+ B_1^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_{14}, D_8)} = \\
& + A_3^+ \Phi_{(B_1, C_{14}, D_8)} \\
& + B_1^+ \Phi_{(A_3, C_{14}, D_8)} \\
& + A_3^+ B_1^+ \Phi_{(C_{14}, D_8)} \\
& + C_{14}^+ D_8^+ \Phi_{(A_3, B_1)} \\
& + A_3^+ C_{14}^+ D_8^+ \Phi_{(B_1,)} \\
& + B_1^+ C_{14}^+ D_8^+ \Phi_{(A_3,)} \\
& + A_3^+ B_1^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_1, C_{15}, D_6)} = \\
& + A_3^+ \Phi_{(B_1, C_{15}, D_6)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_3, C_{15}, D_6)} \\
& +A_3^+ B_1^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_3, B_1)} \\
& +A_3^+ C_{15}^+ D_6^+ \Phi_{(B_1,)} \\
& +B_1^+ C_{15}^+ D_6^+ \Phi_{(A_3,)} \\
& +A_3^+ B_1^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_1, D_1)} = \\
& +A_3^+ \Phi_{(B_2, C_1, D_1)} \\
& +B_2^+ \Phi_{(A_3, C_1, D_1)} \\
& +C_1^+ \Phi_{(A_3, B_2, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_2, C_1)} \\
& +A_3^+ B_2^+ \Phi_{(C_1, D_1)} \\
& +A_3^+ C_1^+ \Phi_{(B_2, D_1)} \\
& +A_3^+ D_1^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_3, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ D_1^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ B_2^+ C_1^+ \Phi_{(D_1,)} \\
& +A_3^+ B_2^+ D_1^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ D_1^+ \Phi_{(B_2,)} \\
& +B_2^+ C_1^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_1, D_2)} = \\
& +A_3^+ \Phi_{(B_2, C_1, D_2)} \\
& +B_2^+ \Phi_{(A_3, C_1, D_2)} \\
& +C_1^+ \Phi_{(A_3, B_2, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_2, C_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ B_2^+ \Phi_{(C_1, D_2)} \\
& +A_3^+ C_1^+ \Phi_{(B_2, D_2)} \\
& +A_3^+ D_2^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_3, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ D_2^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ B_2^+ C_1^+ \Phi_{(D_2,)} \\
& +A_3^+ B_2^+ D_2^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ D_2^+ \Phi_{(B_2,)} \\
& +B_2^+ C_1^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_1, D_3)} = \\
& +A_3^+ \Phi_{(B_2, C_1, D_3)} \\
& +B_2^+ \Phi_{(A_3, C_1, D_3)} \\
& +C_1^+ \Phi_{(A_3, B_2, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_2, C_1)} \\
& +A_3^+ B_2^+ \Phi_{(C_1, D_3)} \\
& +A_3^+ C_1^+ \Phi_{(B_2, D_3)} \\
& +A_3^+ D_3^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_3, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ D_3^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ B_2^+ C_1^+ \Phi_{(D_3,)} \\
& +A_3^+ B_2^+ D_3^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ D_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_1^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_2, D_1)} = \\
& + A_3^+ \Phi_{(B_2, C_2, D_1)} \\
& + B_2^+ \Phi_{(A_3, C_2, D_1)} \\
& + C_2^+ \Phi_{(A_3, B_2, D_1)} \\
& + D_1^+ \Phi_{(A_3, B_2, C_2)} \\
& + A_3^+ B_2^+ \Phi_{(C_2, D_1)} \\
& + A_3^+ C_2^+ \Phi_{(B_2, D_1)} \\
& + A_3^+ D_1^+ \Phi_{(B_2, C_2)} \\
& + B_2^+ C_2^+ \Phi_{(A_3, D_1)} \\
& + B_2^+ D_1^+ \Phi_{(A_3, C_2)} \\
& + C_2^+ D_1^+ \Phi_{(A_3, B_2)} \\
& + A_3^+ B_2^+ C_2^+ \Phi_{(D_1,)} \\
& + A_3^+ B_2^+ D_1^+ \Phi_{(C_2,)} \\
& + A_3^+ C_2^+ D_1^+ \Phi_{(B_2,)} \\
& + B_2^+ C_2^+ D_1^+ \Phi_{(A_3,)} \\
& + A_3^+ B_2^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_2, D_2)} = \\
& + A_3^+ \Phi_{(B_2, C_2, D_2)} \\
& + B_2^+ \Phi_{(A_3, C_2, D_2)} \\
& + C_2^+ \Phi_{(A_3, B_2, D_2)} \\
& + D_2^+ \Phi_{(A_3, B_2, C_2)} \\
& + A_3^+ B_2^+ \Phi_{(C_2, D_2)} \\
& + A_3^+ C_2^+ \Phi_{(B_2, D_2)} \\
& + A_3^+ D_2^+ \Phi_{(B_2, C_2)} \\
& + B_2^+ C_2^+ \Phi_{(A_3, D_2)} \\
& + B_2^+ D_2^+ \Phi_{(A_3, C_2)} \\
& + C_2^+ D_2^+ \Phi_{(A_3, B_2)} \\
& + A_3^+ B_2^+ C_2^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ B_2^+ D_2^+ \Phi_{(C_2,)} \\
& +A_3^+ C_2^+ D_2^+ \Phi_{(B_2,)} \\
& +B_2^+ C_2^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_2, D_3)} = \\
& +A_3^+ \Phi_{(B_2, C_2, D_3)} \\
& +B_2^+ \Phi_{(A_3, C_2, D_3)} \\
& +C_2^+ \Phi_{(A_3, B_2, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_2, C_2)} \\
& +A_3^+ B_2^+ \Phi_{(C_2, D_3)} \\
& +A_3^+ C_2^+ \Phi_{(B_2, D_3)} \\
& +A_3^+ D_3^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_3, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_3, C_2)} \\
& +C_2^+ D_3^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ B_2^+ C_2^+ \Phi_{(D_3,)} \\
& +A_3^+ B_2^+ D_3^+ \Phi_{(C_2,)} \\
& +A_3^+ C_2^+ D_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_2^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_3, D_1)} = \\
& +A_3^+ \Phi_{(B_2, C_3, D_1)} \\
& +B_2^+ \Phi_{(A_3, C_3, D_1)} \\
& +C_3^+ \Phi_{(A_3, B_2, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_2, C_3)} \\
& +A_3^+ B_2^+ \Phi_{(C_3, D_1)} \\
& +A_3^+ C_3^+ \Phi_{(B_2, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ D_1^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_3, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ D_1^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ B_2^+ C_3^+ \Phi_{(D_1,)} \\
& +A_3^+ B_2^+ D_1^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ D_1^+ \Phi_{(B_2,)} \\
& +B_2^+ C_3^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_3, D_2)} = \\
& +A_3^+ \Phi_{(B_2, C_3, D_2)} \\
& +B_2^+ \Phi_{(A_3, C_3, D_2)} \\
& +C_3^+ \Phi_{(A_3, B_2, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_2, C_3)} \\
& +A_3^+ B_2^+ \Phi_{(C_3, D_2)} \\
& +A_3^+ C_3^+ \Phi_{(B_2, D_2)} \\
& +A_3^+ D_2^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_3, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ D_2^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ B_2^+ C_3^+ \Phi_{(D_2,)} \\
& +A_3^+ B_2^+ D_2^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ D_2^+ \Phi_{(B_2,)} \\
& +B_2^+ C_3^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_3, D_3)} = \\
& +A_3^+ \Phi_{(B_2, C_3, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_3, C_3, D_3)} \\
& +C_3^+ \Phi_{(A_3, B_2, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_2, C_3)} \\
& +A_3^+ B_2^+ \Phi_{(C_3, D_3)} \\
& +A_3^+ C_3^+ \Phi_{(B_2, D_3)} \\
& +A_3^+ D_3^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_3, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ B_2^+ C_3^+ \Phi_{(D_3,)} \\
& +A_3^+ B_2^+ D_3^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ D_3^+ \Phi_{(B_2,)} \\
& +B_2^+ C_3^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_4, D_5)} = \\
& +A_3^+ \Phi_{(B_2, C_4, D_5)} \\
& +B_2^+ \Phi_{(A_3, C_4, D_5)} \\
& +A_3^+ B_2^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ C_4^+ D_5^+ \Phi_{(B_2,)} \\
& +B_2^+ C_4^+ D_5^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_5, D_4)} = \\
& +A_3^+ \Phi_{(B_2, C_5, D_4)} \\
& +B_2^+ \Phi_{(A_3, C_5, D_4)} \\
& +A_3^+ B_2^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_3, B_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ C_5^+ D_4^+ \Phi_{(B_2,)} \\
& +B_2^+ C_5^+ D_4^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_6, D_{15})} = \\
& +A_3^+ \Phi_{(B_2, C_6, D_{15})} \\
& +B_2^+ \Phi_{(A_3, C_6, D_{15})} \\
& +A_3^+ B_2^+ \Phi_{(C_6, D_{15})} \\
& +C_6^+ D_{15}^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ C_6^+ D_{15}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_6^+ D_{15}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_7, D_{13})} = \\
& +A_3^+ \Phi_{(B_2, C_7, D_{13})} \\
& +B_2^+ \Phi_{(A_3, C_7, D_{13})} \\
& +A_3^+ B_2^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ C_7^+ D_{13}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_7^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_7, D_{14})} = \\
& +A_3^+ \Phi_{(B_2, C_7, D_{14})} \\
& +B_2^+ \Phi_{(A_3, C_7, D_{14})} \\
& +A_3^+ B_2^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ C_7^+ D_{14}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_7^+ D_{14}^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_2^+ C_7^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_2, C_8, D_{13})} =$$

$$+A_3^+ \Phi_{(B_2, C_8, D_{13})}$$

$$+B_2^+ \Phi_{(A_3, C_8, D_{13})}$$

$$+A_3^+ B_2^+ \Phi_{(C_8, D_{13})}$$

$$+C_8^+ D_{13}^+ \Phi_{(A_3, B_2)}$$

$$+A_3^+ C_8^+ D_{13}^+ \Phi_{(B_2,)}$$

$$+B_2^+ C_8^+ D_{13}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_2^+ C_8^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_2, C_8, D_{14})} =$$

$$+A_3^+ \Phi_{(B_2, C_8, D_{14})}$$

$$+B_2^+ \Phi_{(A_3, C_8, D_{14})}$$

$$+A_3^+ B_2^+ \Phi_{(C_8, D_{14})}$$

$$+C_8^+ D_{14}^+ \Phi_{(A_3, B_2)}$$

$$+A_3^+ C_8^+ D_{14}^+ \Phi_{(B_2,)}$$

$$+B_2^+ C_8^+ D_{14}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_2^+ C_8^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_2, C_9, D_{11})} =$$

$$+A_3^+ \Phi_{(B_2, C_9, D_{11})}$$

$$+B_2^+ \Phi_{(A_3, C_9, D_{11})}$$

$$+A_3^+ B_2^+ \Phi_{(C_9, D_{11})}$$

$$+C_9^+ D_{11}^+ \Phi_{(A_3, B_2)}$$

$$+A_3^+ C_9^+ D_{11}^+ \Phi_{(B_2,)}$$

$$+B_2^+ C_9^+ D_{11}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_2^+ C_9^+ D_{11}^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_3, B_2, C_9, D_{12})} = \\
&+ A_3^+ \Phi_{(B_2, C_9, D_{12})} \\
&+ B_2^+ \Phi_{(A_3, C_9, D_{12})} \\
&+ A_3^+ B_2^+ \Phi_{(C_9, D_{12})} \\
&+ C_9^+ D_{12}^+ \Phi_{(A_3, B_2)} \\
&+ A_3^+ C_9^+ D_{12}^+ \Phi_{(B_2,)} \\
&+ B_2^+ C_9^+ D_{12}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_2^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_2, C_{10}, D_{11})} = \\
&+ A_3^+ \Phi_{(B_2, C_{10}, D_{11})} \\
&+ B_2^+ \Phi_{(A_3, C_{10}, D_{11})} \\
&+ A_3^+ B_2^+ \Phi_{(C_{10}, D_{11})} \\
&+ C_{10}^+ D_{11}^+ \Phi_{(A_3, B_2)} \\
&+ A_3^+ C_{10}^+ D_{11}^+ \Phi_{(B_2,)} \\
&+ B_2^+ C_{10}^+ D_{11}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_2^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_2, C_{10}, D_{12})} = \\
&+ A_3^+ \Phi_{(B_2, C_{10}, D_{12})} \\
&+ B_2^+ \Phi_{(A_3, C_{10}, D_{12})} \\
&+ A_3^+ B_2^+ \Phi_{(C_{10}, D_{12})} \\
&+ C_{10}^+ D_{12}^+ \Phi_{(A_3, B_2)} \\
&+ A_3^+ C_{10}^+ D_{12}^+ \Phi_{(B_2,)} \\
&+ B_2^+ C_{10}^+ D_{12}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_2^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_2, C_{11}, D_9)} = \\
&+ A_3^+ \Phi_{(B_2, C_{11}, D_9)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_3, C_{11}, D_9)} \\
& +A_3^+ B_2^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ C_{11}^+ D_9^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{11}^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_{11}, D_{10})} = \\
& +A_3^+ \Phi_{(B_2, C_{11}, D_{10})} \\
& +B_2^+ \Phi_{(A_3, C_{11}, D_{10})} \\
& +A_3^+ B_2^+ \Phi_{(C_{11}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ C_{11}^+ D_{10}^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{11}^+ D_{10}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_{12}, D_9)} = \\
& +A_3^+ \Phi_{(B_2, C_{12}, D_9)} \\
& +B_2^+ \Phi_{(A_3, C_{12}, D_9)} \\
& +A_3^+ B_2^+ \Phi_{(C_{12}, D_9)} \\
& +C_{12}^+ D_9^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ C_{12}^+ D_9^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{12}^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_{12}, D_{10})} = \\
& +A_3^+ \Phi_{(B_2, C_{12}, D_{10})} \\
& +B_2^+ \Phi_{(A_3, C_{12}, D_{10})} \\
& +A_3^+ B_2^+ \Phi_{(C_{12}, D_{10})}
\end{aligned}$$

$$\begin{aligned}
& +C_{12}^+D_{10}^+\Phi_{(A_3,B_2)} \\
& +A_3^+C_{12}^+D_{10}^+\Phi_{(B_2,)} \\
& +B_2^+C_{12}^+D_{10}^+\Phi_{(A_3,)} \\
& +A_3^+B_2^+C_{12}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3,B_2,C_{13},D_7)} = \\
& +A_3^+\Phi_{(B_2,C_{13},D_7)} \\
& +B_2^+\Phi_{(A_3,C_{13},D_7)} \\
& +A_3^+B_2^+\Phi_{(C_{13},D_7)} \\
& +C_{13}^+D_7^+\Phi_{(A_3,B_2)} \\
& +A_3^+C_{13}^+D_7^+\Phi_{(B_2,)} \\
& +B_2^+C_{13}^+D_7^+\Phi_{(A_3,)} \\
& +A_3^+B_2^+C_{13}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3,B_2,C_{13},D_8)} = \\
& +A_3^+\Phi_{(B_2,C_{13},D_8)} \\
& +B_2^+\Phi_{(A_3,C_{13},D_8)} \\
& +A_3^+B_2^+\Phi_{(C_{13},D_8)} \\
& +C_{13}^+D_8^+\Phi_{(A_3,B_2)} \\
& +A_3^+C_{13}^+D_8^+\Phi_{(B_2,)} \\
& +B_2^+C_{13}^+D_8^+\Phi_{(A_3,)} \\
& +A_3^+B_2^+C_{13}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3,B_2,C_{14},D_7)} = \\
& +A_3^+\Phi_{(B_2,C_{14},D_7)} \\
& +B_2^+\Phi_{(A_3,C_{14},D_7)} \\
& +A_3^+B_2^+\Phi_{(C_{14},D_7)} \\
& +C_{14}^+D_7^+\Phi_{(A_3,B_2)} \\
& +A_3^+C_{14}^+D_7^+\Phi_{(B_2,)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ C_{14}^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_{14}, D_8)} = \\
& +A_3^+ \Phi_{(B_2, C_{14}, D_8)} \\
& +B_2^+ \Phi_{(A_3, C_{14}, D_8)} \\
& +A_3^+ B_2^+ \Phi_{(C_{14}, D_8)} \\
& +C_{14}^+ D_8^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ C_{14}^+ D_8^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{14}^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_2, C_{15}, D_6)} = \\
& +A_3^+ \Phi_{(B_2, C_{15}, D_6)} \\
& +B_2^+ \Phi_{(A_3, C_{15}, D_6)} \\
& +A_3^+ B_2^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_3, B_2)} \\
& +A_3^+ C_{15}^+ D_6^+ \Phi_{(B_2,)} \\
& +B_2^+ C_{15}^+ D_6^+ \Phi_{(A_3,)} \\
& +A_3^+ B_2^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_1, D_1)} = \\
& +A_3^+ \Phi_{(B_3, C_1, D_1)} \\
& +B_3^+ \Phi_{(A_3, C_1, D_1)} \\
& +C_1^+ \Phi_{(A_3, B_3, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_3, C_1)} \\
& +A_3^+ B_3^+ \Phi_{(C_1, D_1)} \\
& +A_3^+ C_1^+ \Phi_{(B_3, D_1)} \\
& +A_3^+ D_1^+ \Phi_{(B_3, C_1)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ C_1^+ \Phi_{(A_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ D_1^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ C_1^+ \Phi_{(D_1,)} \\
& +A_3^+ B_3^+ D_1^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ D_1^+ \Phi_{(B_3,)} \\
& +B_3^+ C_1^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_1, D_2)} = \\
& +A_3^+ \Phi_{(B_3, C_1, D_2)} \\
& +B_3^+ \Phi_{(A_3, C_1, D_2)} \\
& +C_1^+ \Phi_{(A_3, B_3, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_3, C_1)} \\
& +A_3^+ B_3^+ \Phi_{(C_1, D_2)} \\
& +A_3^+ C_1^+ \Phi_{(B_3, D_2)} \\
& +A_3^+ D_2^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ D_2^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ C_1^+ \Phi_{(D_2,)} \\
& +A_3^+ B_3^+ D_2^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ D_2^+ \Phi_{(B_3,)} \\
& +B_3^+ C_1^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_1, D_3)} = \\
& +A_3^+ \Phi_{(B_3, C_1, D_3)} \\
& +B_3^+ \Phi_{(A_3, C_1, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +C_1^+ \Phi_{(A_3, B_3, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_3, C_1)} \\
& +A_3^+ B_3^+ \Phi_{(C_1, D_3)} \\
& +A_3^+ C_1^+ \Phi_{(B_3, D_3)} \\
& +A_3^+ D_3^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_3, C_1)} \\
& +C_1^+ D_3^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ C_1^+ \Phi_{(D_3,)} \\
& +A_3^+ B_3^+ D_3^+ \Phi_{(C_1,)} \\
& +A_3^+ C_1^+ D_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_1^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_2, D_1)} = \\
& +A_3^+ \Phi_{(B_3, C_2, D_1)} \\
& +B_3^+ \Phi_{(A_3, C_2, D_1)} \\
& +C_2^+ \Phi_{(A_3, B_3, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_3, C_2)} \\
& +A_3^+ B_3^+ \Phi_{(C_2, D_1)} \\
& +A_3^+ C_2^+ \Phi_{(B_3, D_1)} \\
& +A_3^+ D_1^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_3, C_2)} \\
& +C_2^+ D_1^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ C_2^+ \Phi_{(D_1,)} \\
& +A_3^+ B_3^+ D_1^+ \Phi_{(C_2,)} \\
& +A_3^+ C_2^+ D_1^+ \Phi_{(B_3,)} \\
& +B_3^+ C_2^+ D_1^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_3^+ C_2^+ D_1^+ \Phi_{()}$$

$$\Phi_{(A_3, B_3, C_2, D_2)} =$$

$$+A_3^+ \Phi_{(B_3, C_2, D_2)}$$

$$+B_3^+ \Phi_{(A_3, C_2, D_2)}$$

$$+C_2^+ \Phi_{(A_3, B_3, D_2)}$$

$$+D_2^+ \Phi_{(A_3, B_3, C_2)}$$

$$+A_3^+ B_3^+ \Phi_{(C_2, D_2)}$$

$$+A_3^+ C_2^+ \Phi_{(B_3, D_2)}$$

$$+A_3^+ D_2^+ \Phi_{(B_3, C_2)}$$

$$+B_3^+ C_2^+ \Phi_{(A_3, D_2)}$$

$$+B_3^+ D_2^+ \Phi_{(A_3, C_2)}$$

$$+C_2^+ D_2^+ \Phi_{(A_3, B_3)}$$

$$+A_3^+ B_3^+ C_2^+ \Phi_{(D_2,)}$$

$$+A_3^+ B_3^+ D_2^+ \Phi_{(C_2,)}$$

$$+A_3^+ C_2^+ D_2^+ \Phi_{(B_3,)}$$

$$+B_3^+ C_2^+ D_2^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_3^+ C_2^+ D_2^+ \Phi_{()}$$

$$\Phi_{(A_3, B_3, C_2, D_3)} =$$

$$+A_3^+ \Phi_{(B_3, C_2, D_3)}$$

$$+B_3^+ \Phi_{(A_3, C_2, D_3)}$$

$$+C_2^+ \Phi_{(A_3, B_3, D_3)}$$

$$+D_3^+ \Phi_{(A_3, B_3, C_2)}$$

$$+A_3^+ B_3^+ \Phi_{(C_2, D_3)}$$

$$+A_3^+ C_2^+ \Phi_{(B_3, D_3)}$$

$$+A_3^+ D_3^+ \Phi_{(B_3, C_2)}$$

$$+B_3^+ C_2^+ \Phi_{(A_3, D_3)}$$

$$+B_3^+ D_3^+ \Phi_{(A_3, C_2)}$$

$$\begin{aligned}
& +C_2^+ D_3^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ C_2^+ \Phi_{(D_3,)} \\
& +A_3^+ B_3^+ D_3^+ \Phi_{(C_2,)} \\
& +A_3^+ C_2^+ D_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_2^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_3, D_1)} = \\
& +A_3^+ \Phi_{(B_3, C_3, D_1)} \\
& +B_3^+ \Phi_{(A_3, C_3, D_1)} \\
& +C_3^+ \Phi_{(A_3, B_3, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_3, C_3)} \\
& +A_3^+ B_3^+ \Phi_{(C_3, D_1)} \\
& +A_3^+ C_3^+ \Phi_{(B_3, D_1)} \\
& +A_3^+ D_1^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ D_1^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ C_3^+ \Phi_{(D_1,)} \\
& +A_3^+ B_3^+ D_1^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ D_1^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_3, D_2)} = \\
& +A_3^+ \Phi_{(B_3, C_3, D_2)} \\
& +B_3^+ \Phi_{(A_3, C_3, D_2)} \\
& +C_3^+ \Phi_{(A_3, B_3, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_3, C_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ B_3^+ \Phi_{(C_3, D_2)} \\
& +A_3^+ C_3^+ \Phi_{(B_3, D_2)} \\
& +A_3^+ D_2^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ D_2^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ C_3^+ \Phi_{(D_2,)} \\
& +A_3^+ B_3^+ D_2^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ D_2^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_3, D_3)} = \\
& +A_3^+ \Phi_{(B_3, C_3, D_3)} \\
& +B_3^+ \Phi_{(A_3, C_3, D_3)} \\
& +C_3^+ \Phi_{(A_3, B_3, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_3, C_3)} \\
& +A_3^+ B_3^+ \Phi_{(C_3, D_3)} \\
& +A_3^+ C_3^+ \Phi_{(B_3, D_3)} \\
& +A_3^+ D_3^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_3, C_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ B_3^+ C_3^+ \Phi_{(D_3,)} \\
& +A_3^+ B_3^+ D_3^+ \Phi_{(C_3,)} \\
& +A_3^+ C_3^+ D_3^+ \Phi_{(B_3,)} \\
& +B_3^+ C_3^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_3, C_4, D_5)} = \\
&+A_3^+ \Phi_{(B_3, C_4, D_5)} \\
&+B_3^+ \Phi_{(A_3, C_4, D_5)} \\
&+A_3^+ B_3^+ \Phi_{(C_4, D_5)} \\
&+C_4^+ D_5^+ \Phi_{(A_3, B_3)} \\
&+A_3^+ C_4^+ D_5^+ \Phi_{(B_3,)} \\
&+B_3^+ C_4^+ D_5^+ \Phi_{(A_3,)} \\
&+A_3^+ B_3^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_3, C_5, D_4)} = \\
&+A_3^+ \Phi_{(B_3, C_5, D_4)} \\
&+B_3^+ \Phi_{(A_3, C_5, D_4)} \\
&+A_3^+ B_3^+ \Phi_{(C_5, D_4)} \\
&+C_5^+ D_4^+ \Phi_{(A_3, B_3)} \\
&+A_3^+ C_5^+ D_4^+ \Phi_{(B_3,)} \\
&+B_3^+ C_5^+ D_4^+ \Phi_{(A_3,)} \\
&+A_3^+ B_3^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_3, C_6, D_{15})} = \\
&+A_3^+ \Phi_{(B_3, C_6, D_{15})} \\
&+B_3^+ \Phi_{(A_3, C_6, D_{15})} \\
&+A_3^+ B_3^+ \Phi_{(C_6, D_{15})} \\
&+C_6^+ D_{15}^+ \Phi_{(A_3, B_3)} \\
&+A_3^+ C_6^+ D_{15}^+ \Phi_{(B_3,)} \\
&+B_3^+ C_6^+ D_{15}^+ \Phi_{(A_3,)} \\
&+A_3^+ B_3^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_3, C_7, D_{13})} = \\
&+A_3^+ \Phi_{(B_3, C_7, D_{13})}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_3, C_7, D_{13})} \\
& +A_3^+ B_3^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_7^+ D_{13}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_7^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_7, D_{14})} = \\
& +A_3^+ \Phi_{(B_3, C_7, D_{14})} \\
& +B_3^+ \Phi_{(A_3, C_7, D_{14})} \\
& +A_3^+ B_3^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_7^+ D_{14}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_7^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_8, D_{13})} = \\
& +A_3^+ \Phi_{(B_3, C_8, D_{13})} \\
& +B_3^+ \Phi_{(A_3, C_8, D_{13})} \\
& +A_3^+ B_3^+ \Phi_{(C_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_8^+ D_{13}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_8^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_8, D_{14})} = \\
& +A_3^+ \Phi_{(B_3, C_8, D_{14})} \\
& +B_3^+ \Phi_{(A_3, C_8, D_{14})} \\
& +A_3^+ B_3^+ \Phi_{(C_8, D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +C_8^+ D_{14}^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_8^+ D_{14}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_8^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_9, D_{11})} = \\
& +A_3^+ \Phi_{(B_3, C_9, D_{11})} \\
& +B_3^+ \Phi_{(A_3, C_9, D_{11})} \\
& +A_3^+ B_3^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_9^+ D_{11}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_9^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_9, D_{12})} = \\
& +A_3^+ \Phi_{(B_3, C_9, D_{12})} \\
& +B_3^+ \Phi_{(A_3, C_9, D_{12})} \\
& +A_3^+ B_3^+ \Phi_{(C_9, D_{12})} \\
& +C_9^+ D_{12}^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_9^+ D_{12}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_9^+ D_{12}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_{10}, D_{11})} = \\
& +A_3^+ \Phi_{(B_3, C_{10}, D_{11})} \\
& +B_3^+ \Phi_{(A_3, C_{10}, D_{11})} \\
& +A_3^+ B_3^+ \Phi_{(C_{10}, D_{11})} \\
& +C_{10}^+ D_{11}^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_{10}^+ D_{11}^+ \Phi_{(B_3,)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ C_{10}^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_3, C_{10}, D_{12})} = \\
& +A_3^+ \Phi_{(B_3, C_{10}, D_{12})} \\
& +B_3^+ \Phi_{(A_3, C_{10}, D_{12})} \\
& +A_3^+ B_3^+ \Phi_{(C_{10}, D_{12})} \\
& +C_{10}^+ D_{12}^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_{10}^+ D_{12}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{10}^+ D_{12}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_3, C_{11}, D_9)} = \\
& +A_3^+ \Phi_{(B_3, C_{11}, D_9)} \\
& +B_3^+ \Phi_{(A_3, C_{11}, D_9)} \\
& +A_3^+ B_3^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_{11}^+ D_9^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{11}^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_3, C_{11}, D_{10})} = \\
& +A_3^+ \Phi_{(B_3, C_{11}, D_{10})} \\
& +B_3^+ \Phi_{(A_3, C_{11}, D_{10})} \\
& +A_3^+ B_3^+ \Phi_{(C_{11}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_{11}^+ D_{10}^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{11}^+ D_{10}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_3, C_{12}, D_9)} = \\
&+ A_3^+ \Phi_{(B_3, C_{12}, D_9)} \\
&+ B_3^+ \Phi_{(A_3, C_{12}, D_9)} \\
&+ A_3^+ B_3^+ \Phi_{(C_{12}, D_9)} \\
&+ C_{12}^+ D_9^+ \Phi_{(A_3, B_3)} \\
&+ A_3^+ C_{12}^+ D_9^+ \Phi_{(B_3,)} \\
&+ B_3^+ C_{12}^+ D_9^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_3^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_3, C_{12}, D_{10})} = \\
&+ A_3^+ \Phi_{(B_3, C_{12}, D_{10})} \\
&+ B_3^+ \Phi_{(A_3, C_{12}, D_{10})} \\
&+ A_3^+ B_3^+ \Phi_{(C_{12}, D_{10})} \\
&+ C_{12}^+ D_{10}^+ \Phi_{(A_3, B_3)} \\
&+ A_3^+ C_{12}^+ D_{10}^+ \Phi_{(B_3,)} \\
&+ B_3^+ C_{12}^+ D_{10}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_3^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_3, C_{13}, D_7)} = \\
&+ A_3^+ \Phi_{(B_3, C_{13}, D_7)} \\
&+ B_3^+ \Phi_{(A_3, C_{13}, D_7)} \\
&+ A_3^+ B_3^+ \Phi_{(C_{13}, D_7)} \\
&+ C_{13}^+ D_7^+ \Phi_{(A_3, B_3)} \\
&+ A_3^+ C_{13}^+ D_7^+ \Phi_{(B_3,)} \\
&+ B_3^+ C_{13}^+ D_7^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_3^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_3, C_{13}, D_8)} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_3, C_{13}, D_8)} \\
& +B_3^+ \Phi_{(A_3, C_{13}, D_8)} \\
& +A_3^+ B_3^+ \Phi_{(C_{13}, D_8)} \\
& +C_{13}^+ D_8^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_{13}^+ D_8^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{13}^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_{14}, D_7)} = \\
& +A_3^+ \Phi_{(B_3, C_{14}, D_7)} \\
& +B_3^+ \Phi_{(A_3, C_{14}, D_7)} \\
& +A_3^+ B_3^+ \Phi_{(C_{14}, D_7)} \\
& +C_{14}^+ D_7^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_{14}^+ D_7^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{14}^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_{14}, D_8)} = \\
& +A_3^+ \Phi_{(B_3, C_{14}, D_8)} \\
& +B_3^+ \Phi_{(A_3, C_{14}, D_8)} \\
& +A_3^+ B_3^+ \Phi_{(C_{14}, D_8)} \\
& +C_{14}^+ D_8^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_{14}^+ D_8^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{14}^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_3, C_{15}, D_6)} = \\
& +A_3^+ \Phi_{(B_3, C_{15}, D_6)} \\
& +B_3^+ \Phi_{(A_3, C_{15}, D_6)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ B_3^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_3, B_3)} \\
& +A_3^+ C_{15}^+ D_6^+ \Phi_{(B_3,)} \\
& +B_3^+ C_{15}^+ D_6^+ \Phi_{(A_3,)} \\
& +A_3^+ B_3^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_4, C_1, D_5)} = \\
& +A_3^+ \Phi_{(B_4, C_1, D_5)} \\
& +C_1^+ \Phi_{(A_3, B_4, D_5)} \\
& +A_3^+ C_1^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_4^+ D_5^+ \Phi_{(C_1,)} \\
& +B_4^+ C_1^+ D_5^+ \Phi_{(A_3,)} \\
& +A_3^+ B_4^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_4, C_2, D_5)} = \\
& +A_3^+ \Phi_{(B_4, C_2, D_5)} \\
& +C_2^+ \Phi_{(A_3, B_4, D_5)} \\
& +A_3^+ C_2^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_4^+ D_5^+ \Phi_{(C_2,)} \\
& +B_4^+ C_2^+ D_5^+ \Phi_{(A_3,)} \\
& +A_3^+ B_4^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_4, C_3, D_5)} = \\
& +A_3^+ \Phi_{(B_4, C_3, D_5)} \\
& +C_3^+ \Phi_{(A_3, B_4, D_5)} \\
& +A_3^+ C_3^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_3, C_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ B_4^+ D_5^+ \Phi_{(C_3,)} \\
& +B_4^+ C_3^+ D_5^+ \Phi_{(A_3,)} \\
& +A_3^+ B_4^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_4, C_5, D_1)} = \\
& +A_3^+ \Phi_{(B_4, C_5, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_4, C_5)} \\
& +A_3^+ D_1^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_3, D_1)} \\
& +A_3^+ B_4^+ C_5^+ \Phi_{(D_1,)} \\
& +B_4^+ C_5^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_4^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_4, C_5, D_2)} = \\
& +A_3^+ \Phi_{(B_4, C_5, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_4, C_5)} \\
& +A_3^+ D_2^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_3, D_2)} \\
& +A_3^+ B_4^+ C_5^+ \Phi_{(D_2,)} \\
& +B_4^+ C_5^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_4^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_4, C_5, D_3)} = \\
& +A_3^+ \Phi_{(B_4, C_5, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_4, C_5)} \\
& +A_3^+ D_3^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_3, D_3)} \\
& +A_3^+ B_4^+ C_5^+ \Phi_{(D_3,)} \\
& +B_4^+ C_5^+ D_3^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_4^+ C_5^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_4, C_9, D_{13})} =$$

$$+A_3^+ \Phi_{(B_4, C_9, D_{13})}$$

$$+B_4^+ C_9^+ D_{13}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_4^+ C_9^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_4, C_9, D_{14})} =$$

$$+A_3^+ \Phi_{(B_4, C_9, D_{14})}$$

$$+B_4^+ C_9^+ D_{14}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_4^+ C_9^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_4, C_{10}, D_{13})} =$$

$$+A_3^+ \Phi_{(B_4, C_{10}, D_{13})}$$

$$+B_4^+ C_{10}^+ D_{13}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_4^+ C_{10}^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_4, C_{10}, D_{14})} =$$

$$+A_3^+ \Phi_{(B_4, C_{10}, D_{14})}$$

$$+B_4^+ C_{10}^+ D_{14}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_4^+ C_{10}^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_4, C_{13}, D_9)} =$$

$$+A_3^+ \Phi_{(B_4, C_{13}, D_9)}$$

$$+B_4^+ C_{13}^+ D_9^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_4^+ C_{13}^+ D_9^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_4, C_{13}, D_{10})} =$$

$$+A_3^+ \Phi_{(B_4, C_{13}, D_{10})}$$

$$\begin{aligned}
& +B_4^+ C_{13}^+ D_{10}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_4^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_4, C_{14}, D_9)} = \\
& +A_3^+ \Phi_{(B_4, C_{14}, D_9)} \\
& +B_4^+ C_{14}^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_4^+ C_{14}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_4, C_{14}, D_{10})} = \\
& +A_3^+ \Phi_{(B_4, C_{14}, D_{10})} \\
& +B_4^+ C_{14}^+ D_{10}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_4^+ C_{14}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_5, C_1, D_4)} = \\
& +A_3^+ \Phi_{(B_5, C_1, D_4)} \\
& +C_1^+ \Phi_{(A_3, B_5, D_4)} \\
& +A_3^+ C_1^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_5^+ D_4^+ \Phi_{(C_1,)} \\
& +B_5^+ C_1^+ D_4^+ \Phi_{(A_3,)} \\
& +A_3^+ B_5^+ C_1^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_5, C_2, D_4)} = \\
& +A_3^+ \Phi_{(B_5, C_2, D_4)} \\
& +C_2^+ \Phi_{(A_3, B_5, D_4)} \\
& +A_3^+ C_2^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_5^+ D_4^+ \Phi_{(C_2,)} \\
& +B_5^+ C_2^+ D_4^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_5^+ C_2^+ D_4^+ \Phi_{()}$$

$$\Phi_{(A_3, B_5, C_3, D_4)} =$$

$$+A_3^+ \Phi_{(B_5, C_3, D_4)}$$

$$+C_3^+ \Phi_{(A_3, B_5, D_4)}$$

$$+A_3^+ C_3^+ \Phi_{(B_5, D_4)}$$

$$+B_5^+ D_4^+ \Phi_{(A_3, C_3)}$$

$$+A_3^+ B_5^+ D_4^+ \Phi_{(C_3,)}$$

$$+B_5^+ C_3^+ D_4^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_5^+ C_3^+ D_4^+ \Phi_{()}$$

$$\Phi_{(A_3, B_5, C_4, D_1)} =$$

$$+A_3^+ \Phi_{(B_5, C_4, D_1)}$$

$$+D_1^+ \Phi_{(A_3, B_5, C_4)}$$

$$+A_3^+ D_1^+ \Phi_{(B_5, C_4)}$$

$$+B_5^+ C_4^+ \Phi_{(A_3, D_1)}$$

$$+A_3^+ B_5^+ C_4^+ \Phi_{(D_1,)}$$

$$+B_5^+ C_4^+ D_1^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_5^+ C_4^+ D_1^+ \Phi_{()}$$

$$\Phi_{(A_3, B_5, C_4, D_2)} =$$

$$+A_3^+ \Phi_{(B_5, C_4, D_2)}$$

$$+D_2^+ \Phi_{(A_3, B_5, C_4)}$$

$$+A_3^+ D_2^+ \Phi_{(B_5, C_4)}$$

$$+B_5^+ C_4^+ \Phi_{(A_3, D_2)}$$

$$+A_3^+ B_5^+ C_4^+ \Phi_{(D_2,)}$$

$$+B_5^+ C_4^+ D_2^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_5^+ C_4^+ D_2^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_3, B_5, C_4, D_3)} = \\
&+ A_3^+ \Phi_{(B_5, C_4, D_3)} \\
&+ D_3^+ \Phi_{(A_3, B_5, C_4)} \\
&+ A_3^+ D_3^+ \Phi_{(B_5, C_4)} \\
&+ B_5^+ C_4^+ \Phi_{(A_3, D_3)} \\
&+ A_3^+ B_5^+ C_4^+ \Phi_{(D_3,)} \\
&+ B_5^+ C_4^+ D_3^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_5^+ C_4^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_5, C_7, D_{11})} = \\
&+ A_3^+ \Phi_{(B_5, C_7, D_{11})} \\
&+ B_5^+ C_7^+ D_{11}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_5^+ C_7^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_5, C_7, D_{12})} = \\
&+ A_3^+ \Phi_{(B_5, C_7, D_{12})} \\
&+ B_5^+ C_7^+ D_{12}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_5^+ C_7^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_5, C_8, D_{11})} = \\
&+ A_3^+ \Phi_{(B_5, C_8, D_{11})} \\
&+ B_5^+ C_8^+ D_{11}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_5^+ C_8^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_5, C_8, D_{12})} = \\
&+ A_3^+ \Phi_{(B_5, C_8, D_{12})} \\
&+ B_5^+ C_8^+ D_{12}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_5^+ C_8^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_5, C_{11}, D_7)} = \\
&+ A_3^+ \Phi_{(B_5, C_{11}, D_7)} \\
&+ B_5^+ C_{11}^+ D_7^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_5^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_5, C_{11}, D_8)} = \\
&+ A_3^+ \Phi_{(B_5, C_{11}, D_8)} \\
&+ B_5^+ C_{11}^+ D_8^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_5^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_5, C_{12}, D_7)} = \\
&+ A_3^+ \Phi_{(B_5, C_{12}, D_7)} \\
&+ B_5^+ C_{12}^+ D_7^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_5^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_5, C_{12}, D_8)} = \\
&+ A_3^+ \Phi_{(B_5, C_{12}, D_8)} \\
&+ B_5^+ C_{12}^+ D_8^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_5^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_6, C_1, D_{15})} = \\
&+ A_3^+ \Phi_{(B_6, C_1, D_{15})} \\
&+ C_1^+ \Phi_{(A_3, B_6, D_{15})} \\
&+ A_3^+ C_1^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_3, C_1)} \\
&+ A_3^+ B_6^+ D_{15}^+ \Phi_{(C_1,)} \\
&+ B_6^+ C_1^+ D_{15}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_6^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_6, C_2, D_{15})} = \\
&+ A_3^+ \Phi_{(B_6, C_2, D_{15})} \\
&+ C_2^+ \Phi_{(A_3, B_6, D_{15})} \\
&+ A_3^+ C_2^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_3, C_2)} \\
&+ A_3^+ B_6^+ D_{15}^+ \Phi_{(C_2,)} \\
&+ B_6^+ C_2^+ D_{15}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_6^+ C_2^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_6, C_3, D_{15})} = \\
&+ A_3^+ \Phi_{(B_6, C_3, D_{15})} \\
&+ C_3^+ \Phi_{(A_3, B_6, D_{15})} \\
&+ A_3^+ C_3^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_3, C_3)} \\
&+ A_3^+ B_6^+ D_{15}^+ \Phi_{(C_3,)} \\
&+ B_6^+ C_3^+ D_{15}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_6^+ C_3^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_6, C_{11}, D_{13})} = \\
&+ A_3^+ \Phi_{(B_6, C_{11}, D_{13})} \\
&+ B_6^+ C_{11}^+ D_{13}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_6^+ C_{11}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_6, C_{11}, D_{14})} = \\
&+ A_3^+ \Phi_{(B_6, C_{11}, D_{14})} \\
&+ B_6^+ C_{11}^+ D_{14}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_6^+ C_{11}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_6, C_{12}, D_{13})} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_6, C_{12}, D_{13})} \\
& +B_6^+ C_{12}^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_6^+ C_{12}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_6, C_{12}, D_{14})} = \\
& +A_3^+ \Phi_{(B_6, C_{12}, D_{14})} \\
& +B_6^+ C_{12}^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_6^+ C_{12}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_6, C_{13}, D_{11})} = \\
& +A_3^+ \Phi_{(B_6, C_{13}, D_{11})} \\
& +B_6^+ C_{13}^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_6^+ C_{13}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_6, C_{13}, D_{12})} = \\
& +A_3^+ \Phi_{(B_6, C_{13}, D_{12})} \\
& +B_6^+ C_{13}^+ D_{12}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_6^+ C_{13}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_6, C_{14}, D_{11})} = \\
& +A_3^+ \Phi_{(B_6, C_{14}, D_{11})} \\
& +B_6^+ C_{14}^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_6^+ C_{14}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_6, C_{14}, D_{12})} = \\
& +A_3^+ \Phi_{(B_6, C_{14}, D_{12})} \\
& +B_6^+ C_{14}^+ D_{12}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_6^+ C_{14}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_6, C_{15}, D_1)} = \\
&+ A_3^+ \Phi_{(B_6, C_{15}, D_1)} \\
&+ D_1^+ \Phi_{(A_3, B_6, C_{15})} \\
&+ A_3^+ D_1^+ \Phi_{(B_6, C_{15})} \\
&+ B_6^+ C_{15}^+ \Phi_{(A_3, D_1)} \\
&+ A_3^+ B_6^+ C_{15}^+ \Phi_{(D_1,)} \\
&+ B_6^+ C_{15}^+ D_1^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_6^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_6, C_{15}, D_2)} = \\
&+ A_3^+ \Phi_{(B_6, C_{15}, D_2)} \\
&+ D_2^+ \Phi_{(A_3, B_6, C_{15})} \\
&+ A_3^+ D_2^+ \Phi_{(B_6, C_{15})} \\
&+ B_6^+ C_{15}^+ \Phi_{(A_3, D_2)} \\
&+ A_3^+ B_6^+ C_{15}^+ \Phi_{(D_2,)} \\
&+ B_6^+ C_{15}^+ D_2^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_6^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_6, C_{15}, D_3)} = \\
&+ A_3^+ \Phi_{(B_6, C_{15}, D_3)} \\
&+ D_3^+ \Phi_{(A_3, B_6, C_{15})} \\
&+ A_3^+ D_3^+ \Phi_{(B_6, C_{15})} \\
&+ B_6^+ C_{15}^+ \Phi_{(A_3, D_3)} \\
&+ A_3^+ B_6^+ C_{15}^+ \Phi_{(D_3,)} \\
&+ B_6^+ C_{15}^+ D_3^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_6^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_7, C_1, D_{13})} = \\
&+ A_3^+ \Phi_{(B_7, C_1, D_{13})}
\end{aligned}$$

$$\begin{aligned}
& +C_1^+ \Phi_{(A_3, B_7, D_{13})} \\
& +A_3^+ C_1^+ \Phi_{(B_7, D_{13})} \\
& +B_7^+ D_{13}^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_7^+ D_{13}^+ \Phi_{(C_1,)} \\
& +B_7^+ C_1^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_1, D_{14})} = \\
& +A_3^+ \Phi_{(B_7, C_1, D_{14})} \\
& +C_1^+ \Phi_{(A_3, B_7, D_{14})} \\
& +A_3^+ C_1^+ \Phi_{(B_7, D_{14})} \\
& +B_7^+ D_{14}^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_7^+ D_{14}^+ \Phi_{(C_1,)} \\
& +B_7^+ C_1^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_2, D_{13})} = \\
& +A_3^+ \Phi_{(B_7, C_2, D_{13})} \\
& +C_2^+ \Phi_{(A_3, B_7, D_{13})} \\
& +A_3^+ C_2^+ \Phi_{(B_7, D_{13})} \\
& +B_7^+ D_{13}^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_7^+ D_{13}^+ \Phi_{(C_2,)} \\
& +B_7^+ C_2^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_2, D_{14})} = \\
& +A_3^+ \Phi_{(B_7, C_2, D_{14})} \\
& +C_2^+ \Phi_{(A_3, B_7, D_{14})} \\
& +A_3^+ C_2^+ \Phi_{(B_7, D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +B_7^+ D_{14}^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_7^+ D_{14}^+ \Phi_{(C_2,)} \\
& +B_7^+ C_2^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_3, D_{13})} = \\
& +A_3^+ \Phi_{(B_7, C_3, D_{13})} \\
& +C_3^+ \Phi_{(A_3, B_7, D_{13})} \\
& +A_3^+ C_3^+ \Phi_{(B_7, D_{13})} \\
& +B_7^+ D_{13}^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_7^+ D_{13}^+ \Phi_{(C_3,)} \\
& +B_7^+ C_3^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_3, D_{14})} = \\
& +A_3^+ \Phi_{(B_7, C_3, D_{14})} \\
& +C_3^+ \Phi_{(A_3, B_7, D_{14})} \\
& +A_3^+ C_3^+ \Phi_{(B_7, D_{14})} \\
& +B_7^+ D_{14}^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_7^+ D_{14}^+ \Phi_{(C_3,)} \\
& +B_7^+ C_3^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_5, D_{11})} = \\
& +A_3^+ \Phi_{(B_7, C_5, D_{11})} \\
& +B_7^+ C_5^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_7, C_5, D_{12})} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_7, C_5, D_{12})} \\
& +B_7^+ C_5^+ D_{12}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_9, D_{15})} = \\
& +A_3^+ \Phi_{(B_7, C_9, D_{15})} \\
& +B_7^+ C_9^+ D_{15}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_{10}, D_{15})} = \\
& +A_3^+ \Phi_{(B_7, C_{10}, D_{15})} \\
& +B_7^+ C_{10}^+ D_{15}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_{10}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_{11}, D_5)} = \\
& +A_3^+ \Phi_{(B_7, C_{11}, D_5)} \\
& +B_7^+ C_{11}^+ D_5^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_{11}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_{12}, D_5)} = \\
& +A_3^+ \Phi_{(B_7, C_{12}, D_5)} \\
& +B_7^+ C_{12}^+ D_5^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_{12}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_7, C_{13}, D_1)} = \\
& +A_3^+ \Phi_{(B_7, C_{13}, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_7, C_{13})} \\
& +A_3^+ D_1^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_3, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ B_7^+ C_{13}^+ \Phi_{(D_1,)} \\
& +B_7^+ C_{13}^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_7, C_{13}, D_2)} = \\
& +A_3^+ \Phi_{(B_7, C_{13}, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_7, C_{13})} \\
& +A_3^+ D_2^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_3, D_2)} \\
& +A_3^+ B_7^+ C_{13}^+ \Phi_{(D_2,)} \\
& +B_7^+ C_{13}^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_7, C_{13}, D_3)} = \\
& +A_3^+ \Phi_{(B_7, C_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_7, C_{13})} \\
& +A_3^+ D_3^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_3, D_3)} \\
& +A_3^+ B_7^+ C_{13}^+ \Phi_{(D_3,)} \\
& +B_7^+ C_{13}^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_7^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_7, C_{14}, D_1)} = \\
& +A_3^+ \Phi_{(B_7, C_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_7, C_{14})} \\
& +A_3^+ D_1^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_3, D_1)} \\
& +A_3^+ B_7^+ C_{14}^+ \Phi_{(D_1,)} \\
& +B_7^+ C_{14}^+ D_1^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_7^+ C_{14}^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_7, C_{14}, D_2)} =$$

$$+A_3^+ \Phi_{(B_7, C_{14}, D_2)}$$

$$+D_2^+ \Phi_{(A_3, B_7, C_{14})}$$

$$+A_3^+ D_2^+ \Phi_{(B_7, C_{14})}$$

$$+B_7^+ C_{14}^+ \Phi_{(A_3, D_2)}$$

$$+A_3^+ B_7^+ C_{14}^+ \Phi_{(D_2,)}$$

$$+B_7^+ C_{14}^+ D_2^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_7^+ C_{14}^+ D_2^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_7, C_{14}, D_3)} =$$

$$+A_3^+ \Phi_{(B_7, C_{14}, D_3)}$$

$$+D_3^+ \Phi_{(A_3, B_7, C_{14})}$$

$$+A_3^+ D_3^+ \Phi_{(B_7, C_{14})}$$

$$+B_7^+ C_{14}^+ \Phi_{(A_3, D_3)}$$

$$+A_3^+ B_7^+ C_{14}^+ \Phi_{(D_3,)}$$

$$+B_7^+ C_{14}^+ D_3^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_7^+ C_{14}^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_7, C_{15}, D_9)} =$$

$$+A_3^+ \Phi_{(B_7, C_{15}, D_9)}$$

$$+B_7^+ C_{15}^+ D_9^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_7^+ C_{15}^+ D_9^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_7, C_{15}, D_{10})} =$$

$$+A_3^+ \Phi_{(B_7, C_{15}, D_{10})}$$

$$+B_7^+ C_{15}^+ D_{10}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_7^+ C_{15}^+ D_{10}^+ \Phi_{()} \\$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_1, D_{13})} = \\
& + A_3^+ \Phi_{(B_8, C_1, D_{13})} \\
& + C_1^+ \Phi_{(A_3, B_8, D_{13})} \\
& + A_3^+ C_1^+ \Phi_{(B_8, D_{13})} \\
& + B_8^+ D_{13}^+ \Phi_{(A_3, C_1)} \\
& + A_3^+ B_8^+ D_{13}^+ \Phi_{(C_1,)} \\
& + B_8^+ C_1^+ D_{13}^+ \Phi_{(A_3,)} \\
& + A_3^+ B_8^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_1, D_{14})} = \\
& + A_3^+ \Phi_{(B_8, C_1, D_{14})} \\
& + C_1^+ \Phi_{(A_3, B_8, D_{14})} \\
& + A_3^+ C_1^+ \Phi_{(B_8, D_{14})} \\
& + B_8^+ D_{14}^+ \Phi_{(A_3, C_1)} \\
& + A_3^+ B_8^+ D_{14}^+ \Phi_{(C_1,)} \\
& + B_8^+ C_1^+ D_{14}^+ \Phi_{(A_3,)} \\
& + A_3^+ B_8^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_2, D_{13})} = \\
& + A_3^+ \Phi_{(B_8, C_2, D_{13})} \\
& + C_2^+ \Phi_{(A_3, B_8, D_{13})} \\
& + A_3^+ C_2^+ \Phi_{(B_8, D_{13})} \\
& + B_8^+ D_{13}^+ \Phi_{(A_3, C_2)} \\
& + A_3^+ B_8^+ D_{13}^+ \Phi_{(C_2,)} \\
& + B_8^+ C_2^+ D_{13}^+ \Phi_{(A_3,)} \\
& + A_3^+ B_8^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_8, C_2, D_{14})} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_8, C_2, D_{14})} \\
& +C_2^+ \Phi_{(A_3, B_8, D_{14})} \\
& +A_3^+ C_2^+ \Phi_{(B_8, D_{14})} \\
& +B_8^+ D_{14}^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_8^+ D_{14}^+ \Phi_{(C_2,)} \\
& +B_8^+ C_2^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_3, D_{13})} = \\
& +A_3^+ \Phi_{(B_8, C_3, D_{13})} \\
& +C_3^+ \Phi_{(A_3, B_8, D_{13})} \\
& +A_3^+ C_3^+ \Phi_{(B_8, D_{13})} \\
& +B_8^+ D_{13}^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_8^+ D_{13}^+ \Phi_{(C_3,)} \\
& +B_8^+ C_3^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_3, D_{14})} = \\
& +A_3^+ \Phi_{(B_8, C_3, D_{14})} \\
& +C_3^+ \Phi_{(A_3, B_8, D_{14})} \\
& +A_3^+ C_3^+ \Phi_{(B_8, D_{14})} \\
& +B_8^+ D_{14}^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_8^+ D_{14}^+ \Phi_{(C_3,)} \\
& +B_8^+ C_3^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_5, D_{11})} = \\
& +A_3^+ \Phi_{(B_8, C_5, D_{11})} \\
& +B_8^+ C_5^+ D_{11}^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_8^+ C_5^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_8, C_5, D_{12})} = \\ +A_3^+ \Phi_{(B_8, C_5, D_{12})} \\ +B_8^+ C_5^+ D_{12}^+ \Phi_{(A_3,)} \\ +A_3^+ B_8^+ C_5^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_8, C_9, D_{15})} = \\ +A_3^+ \Phi_{(B_8, C_9, D_{15})} \\ +B_8^+ C_9^+ D_{15}^+ \Phi_{(A_3,)} \\ +A_3^+ B_8^+ C_9^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_8, C_{10}, D_{15})} = \\ +A_3^+ \Phi_{(B_8, C_{10}, D_{15})} \\ +B_8^+ C_{10}^+ D_{15}^+ \Phi_{(A_3,)} \\ +A_3^+ B_8^+ C_{10}^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_8, C_{11}, D_5)} = \\ +A_3^+ \Phi_{(B_8, C_{11}, D_5)} \\ +B_8^+ C_{11}^+ D_5^+ \Phi_{(A_3,)} \\ +A_3^+ B_8^+ C_{11}^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_8, C_{12}, D_5)} = \\ +A_3^+ \Phi_{(B_8, C_{12}, D_5)} \\ +B_8^+ C_{12}^+ D_5^+ \Phi_{(A_3,)} \\ +A_3^+ B_8^+ C_{12}^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_8, C_{13}, D_1)} = \\ +A_3^+ \Phi_{(B_8, C_{13}, D_1)} \\$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_3, B_8, C_{13})} \\
& +A_3^+ D_1^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_3, D_1)} \\
& +A_3^+ B_8^+ C_{13}^+ \Phi_{(D_1,)} \\
& +B_8^+ C_{13}^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_{13}, D_2)} = \\
& +A_3^+ \Phi_{(B_8, C_{13}, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_8, C_{13})} \\
& +A_3^+ D_2^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_3, D_2)} \\
& +A_3^+ B_8^+ C_{13}^+ \Phi_{(D_2,)} \\
& +B_8^+ C_{13}^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_{13}, D_3)} = \\
& +A_3^+ \Phi_{(B_8, C_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_8, C_{13})} \\
& +A_3^+ D_3^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_3, D_3)} \\
& +A_3^+ B_8^+ C_{13}^+ \Phi_{(D_3,)} \\
& +B_8^+ C_{13}^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_{14}, D_1)} = \\
& +A_3^+ \Phi_{(B_8, C_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_8, C_{14})} \\
& +A_3^+ D_1^+ \Phi_{(B_8, C_{14})}
\end{aligned}$$

$$\begin{aligned}
& +B_8^+ C_{14}^+ \Phi_{(A_3, D_1)} \\
& +A_3^+ B_8^+ C_{14}^+ \Phi_{(D_1,)} \\
& +B_8^+ C_{14}^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_{14}, D_2)} = \\
& +A_3^+ \Phi_{(B_8, C_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_8, C_{14})} \\
& +A_3^+ D_2^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_3, D_2)} \\
& +A_3^+ B_8^+ C_{14}^+ \Phi_{(D_2,)} \\
& +B_8^+ C_{14}^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_{14}, D_3)} = \\
& +A_3^+ \Phi_{(B_8, C_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_8, C_{14})} \\
& +A_3^+ D_3^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_3, D_3)} \\
& +A_3^+ B_8^+ C_{14}^+ \Phi_{(D_3,)} \\
& +B_8^+ C_{14}^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_8, C_{15}, D_9)} = \\
& +A_3^+ \Phi_{(B_8, C_{15}, D_9)} \\
& +B_8^+ C_{15}^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_8, C_{15}, D_{10})} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_8, C_{15}, D_{10})} \\
& +B_8^+ C_{15}^+ D_{10}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_8^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_9, C_1, D_{11})} = \\
& +A_3^+ \Phi_{(B_9, C_1, D_{11})} \\
& +C_1^+ \Phi_{(A_3, B_9, D_{11})} \\
& +A_3^+ C_1^+ \Phi_{(B_9, D_{11})} \\
& +B_9^+ D_{11}^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_9^+ D_{11}^+ \Phi_{(C_1,)} \\
& +B_9^+ C_1^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_9^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_9, C_1, D_{12})} = \\
& +A_3^+ \Phi_{(B_9, C_1, D_{12})} \\
& +C_1^+ \Phi_{(A_3, B_9, D_{12})} \\
& +A_3^+ C_1^+ \Phi_{(B_9, D_{12})} \\
& +B_9^+ D_{12}^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_9^+ D_{12}^+ \Phi_{(C_1,)} \\
& +B_9^+ C_1^+ D_{12}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_9^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_9, C_2, D_{11})} = \\
& +A_3^+ \Phi_{(B_9, C_2, D_{11})} \\
& +C_2^+ \Phi_{(A_3, B_9, D_{11})} \\
& +A_3^+ C_2^+ \Phi_{(B_9, D_{11})} \\
& +B_9^+ D_{11}^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_9^+ D_{11}^+ \Phi_{(C_2,)} \\
& +B_9^+ C_2^+ D_{11}^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_9^+ C_2^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_9, C_2, D_{12})} = \\$$

$$+A_3^+ \Phi_{(B_9, C_2, D_{12})} \\$$

$$+C_2^+ \Phi_{(A_3, B_9, D_{12})} \\$$

$$+A_3^+ C_2^+ \Phi_{(B_9, D_{12})} \\$$

$$+B_9^+ D_{12}^+ \Phi_{(A_3, C_2)} \\$$

$$+A_3^+ B_9^+ D_{12}^+ \Phi_{(C_2,)} \\$$

$$+B_9^+ C_2^+ D_{12}^+ \Phi_{(A_3,)} \\$$

$$+A_3^+ B_9^+ C_2^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_9, C_3, D_{11})} = \\$$

$$+A_3^+ \Phi_{(B_9, C_3, D_{11})} \\$$

$$+C_3^+ \Phi_{(A_3, B_9, D_{11})} \\$$

$$+A_3^+ C_3^+ \Phi_{(B_9, D_{11})} \\$$

$$+B_9^+ D_{11}^+ \Phi_{(A_3, C_3)} \\$$

$$+A_3^+ B_9^+ D_{11}^+ \Phi_{(C_3,)} \\$$

$$+B_9^+ C_3^+ D_{11}^+ \Phi_{(A_3,)} \\$$

$$+A_3^+ B_9^+ C_3^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_9, C_3, D_{12})} = \\$$

$$+A_3^+ \Phi_{(B_9, C_3, D_{12})} \\$$

$$+C_3^+ \Phi_{(A_3, B_9, D_{12})} \\$$

$$+A_3^+ C_3^+ \Phi_{(B_9, D_{12})} \\$$

$$+B_9^+ D_{12}^+ \Phi_{(A_3, C_3)} \\$$

$$+A_3^+ B_9^+ D_{12}^+ \Phi_{(C_3,)} \\$$

$$+B_9^+ C_3^+ D_{12}^+ \Phi_{(A_3,)} \\$$

$$+A_3^+ B_9^+ C_3^+ D_{12}^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_3, B_9, C_4, D_{13})} = \\
&+ A_3^+ \Phi_{(B_9, C_4, D_{13})} \\
&+ B_9^+ C_4^+ D_{13}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_9^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_9, C_4, D_{14})} = \\
&+ A_3^+ \Phi_{(B_9, C_4, D_{14})} \\
&+ B_9^+ C_4^+ D_{14}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_9^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_9, C_7, D_{15})} = \\
&+ A_3^+ \Phi_{(B_9, C_7, D_{15})} \\
&+ B_9^+ C_7^+ D_{15}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_9^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_9, C_8, D_{15})} = \\
&+ A_3^+ \Phi_{(B_9, C_8, D_{15})} \\
&+ B_9^+ C_8^+ D_{15}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_9^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_9, C_{11}, D_1)} = \\
&+ A_3^+ \Phi_{(B_9, C_{11}, D_1)} \\
&+ D_1^+ \Phi_{(A_3, B_9, C_{11})} \\
&+ A_3^+ D_1^+ \Phi_{(B_9, C_{11})} \\
&+ B_9^+ C_{11}^+ \Phi_{(A_3, D_1)} \\
&+ A_3^+ B_9^+ C_{11}^+ \Phi_{(D_1,)} \\
&+ B_9^+ C_{11}^+ D_1^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_9^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_9, C_{11}, D_2)} = \\
&+ A_3^+ \Phi_{(B_9, C_{11}, D_2)} \\
&+ D_2^+ \Phi_{(A_3, B_9, C_{11})} \\
&+ A_3^+ D_2^+ \Phi_{(B_9, C_{11})} \\
&+ B_9^+ C_{11}^+ \Phi_{(A_3, D_2)} \\
&+ A_3^+ B_9^+ C_{11}^+ \Phi_{(D_2,)} \\
&+ B_9^+ C_{11}^+ D_2^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_9^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_9, C_{11}, D_3)} = \\
&+ A_3^+ \Phi_{(B_9, C_{11}, D_3)} \\
&+ D_3^+ \Phi_{(A_3, B_9, C_{11})} \\
&+ A_3^+ D_3^+ \Phi_{(B_9, C_{11})} \\
&+ B_9^+ C_{11}^+ \Phi_{(A_3, D_3)} \\
&+ A_3^+ B_9^+ C_{11}^+ \Phi_{(D_3,)} \\
&+ B_9^+ C_{11}^+ D_3^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_9^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_9, C_{12}, D_1)} = \\
&+ A_3^+ \Phi_{(B_9, C_{12}, D_1)} \\
&+ D_1^+ \Phi_{(A_3, B_9, C_{12})} \\
&+ A_3^+ D_1^+ \Phi_{(B_9, C_{12})} \\
&+ B_9^+ C_{12}^+ \Phi_{(A_3, D_1)} \\
&+ A_3^+ B_9^+ C_{12}^+ \Phi_{(D_1,)} \\
&+ B_9^+ C_{12}^+ D_1^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_9^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_9, C_{12}, D_2)} = \\
&+ A_3^+ \Phi_{(B_9, C_{12}, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_3, B_9, C_{12})} \\
& +A_3^+ D_2^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_3, D_2)} \\
& +A_3^+ B_9^+ C_{12}^+ \Phi_{(D_2,)} \\
& +B_9^+ C_{12}^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_9^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_9, C_{12}, D_3)} = \\
& +A_3^+ \Phi_{(B_9, C_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_9, C_{12})} \\
& +A_3^+ D_3^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_3, D_3)} \\
& +A_3^+ B_9^+ C_{12}^+ \Phi_{(D_3,)} \\
& +B_9^+ C_{12}^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_9^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_9, C_{13}, D_4)} = \\
& +A_3^+ \Phi_{(B_9, C_{13}, D_4)} \\
& +B_9^+ C_{13}^+ D_4^+ \Phi_{(A_3,)} \\
& +A_3^+ B_9^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_9, C_{14}, D_4)} = \\
& +A_3^+ \Phi_{(B_9, C_{14}, D_4)} \\
& +B_9^+ C_{14}^+ D_4^+ \Phi_{(A_3,)} \\
& +A_3^+ B_9^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_9, C_{15}, D_7)} = \\
& +A_3^+ \Phi_{(B_9, C_{15}, D_7)} \\
& +B_9^+ C_{15}^+ D_7^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_9^+ C_{15}^+ D_7^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_3, B_9, C_{15}, D_8)} = \\ +A_3^+ \Phi_{(B_9, C_{15}, D_8)} \\ +B_9^+ C_{15}^+ D_8^+ \Phi_{(A_3,)} \\ +A_3^+ B_9^+ C_{15}^+ D_8^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_3, B_{10}, C_1, D_{11})} = \\ +A_3^+ \Phi_{(B_{10}, C_1, D_{11})} \\ +C_1^+ \Phi_{(A_3, B_{10}, D_{11})} \\ +A_3^+ C_1^+ \Phi_{(B_{10}, D_{11})} \\ +B_{10}^+ D_{11}^+ \Phi_{(A_3, C_1)} \\ +A_3^+ B_{10}^+ D_{11}^+ \Phi_{(C_1,)} \\ +B_{10}^+ C_1^+ D_{11}^+ \Phi_{(A_3,)} \\ +A_3^+ B_{10}^+ C_1^+ D_{11}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_3, B_{10}, C_1, D_{12})} = \\ +A_3^+ \Phi_{(B_{10}, C_1, D_{12})} \\ +C_1^+ \Phi_{(A_3, B_{10}, D_{12})} \\ +A_3^+ C_1^+ \Phi_{(B_{10}, D_{12})} \\ +B_{10}^+ D_{12}^+ \Phi_{(A_3, C_1)} \\ +A_3^+ B_{10}^+ D_{12}^+ \Phi_{(C_1,)} \\ +B_{10}^+ C_1^+ D_{12}^+ \Phi_{(A_3,)} \\ +A_3^+ B_{10}^+ C_1^+ D_{12}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_3, B_{10}, C_2, D_{11})} = \\ +A_3^+ \Phi_{(B_{10}, C_2, D_{11})} \\ +C_2^+ \Phi_{(A_3, B_{10}, D_{11})} \\ +A_3^+ C_2^+ \Phi_{(B_{10}, D_{11})} \end{aligned}$$

$$\begin{aligned}
& +B_{10}^+ D_{11}^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_{10}^+ D_{11}^+ \Phi_{(C_2,)} \\
& +B_{10}^+ C_2^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{10}^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_{10}, C_2, D_{12})} = \\
& +A_3^+ \Phi_{(B_{10}, C_2, D_{12})} \\
& +C_2^+ \Phi_{(A_3, B_{10}, D_{12})} \\
& +A_3^+ C_2^+ \Phi_{(B_{10}, D_{12})} \\
& +B_{10}^+ D_{12}^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_{10}^+ D_{12}^+ \Phi_{(C_2,)} \\
& +B_{10}^+ C_2^+ D_{12}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{10}^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_{10}, C_3, D_{11})} = \\
& +A_3^+ \Phi_{(B_{10}, C_3, D_{11})} \\
& +C_3^+ \Phi_{(A_3, B_{10}, D_{11})} \\
& +A_3^+ C_3^+ \Phi_{(B_{10}, D_{11})} \\
& +B_{10}^+ D_{11}^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_{10}^+ D_{11}^+ \Phi_{(C_3,)} \\
& +B_{10}^+ C_3^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{10}^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3, B_{10}, C_3, D_{12})} = \\
& +A_3^+ \Phi_{(B_{10}, C_3, D_{12})} \\
& +C_3^+ \Phi_{(A_3, B_{10}, D_{12})} \\
& +A_3^+ C_3^+ \Phi_{(B_{10}, D_{12})} \\
& +B_{10}^+ D_{12}^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_{10}^+ D_{12}^+ \Phi_{(C_3,)}
\end{aligned}$$

$$+B_{10}^+C_3^+D_{12}^+\Phi_{(A_3,)}$$

$$+A_3^+B_{10}^+C_3^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_3,B_{10},C_4,D_{13})} =$$

$$+A_3^+\Phi_{(B_{10},C_4,D_{13})}$$

$$+B_{10}^+C_4^+D_{13}^+\Phi_{(A_3,)}$$

$$+A_3^+B_{10}^+C_4^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_3,B_{10},C_4,D_{14})} =$$

$$+A_3^+\Phi_{(B_{10},C_4,D_{14})}$$

$$+B_{10}^+C_4^+D_{14}^+\Phi_{(A_3,)}$$

$$+A_3^+B_{10}^+C_4^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_3,B_{10},C_7,D_{15})} =$$

$$+A_3^+\Phi_{(B_{10},C_7,D_{15})}$$

$$+B_{10}^+C_7^+D_{15}^+\Phi_{(A_3,)}$$

$$+A_3^+B_{10}^+C_7^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_3,B_{10},C_8,D_{15})} =$$

$$+A_3^+\Phi_{(B_{10},C_8,D_{15})}$$

$$+B_{10}^+C_8^+D_{15}^+\Phi_{(A_3,)}$$

$$+A_3^+B_{10}^+C_8^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_3,B_{10},C_{11},D_1)} =$$

$$+A_3^+\Phi_{(B_{10},C_{11},D_1)}$$

$$+D_1^+\Phi_{(A_3,B_{10},C_{11})}$$

$$+A_3^+D_1^+\Phi_{(B_{10},C_{11})}$$

$$+B_{10}^+C_{11}^+\Phi_{(A_3,D_1)}$$

$$+A_3^+B_{10}^+C_{11}^+\Phi_{(D_1,)}$$

$$\begin{aligned}
& +B_{10}^+C_{11}^+D_1^+\Phi_{(A_3,)} \\
& +A_3^+B_{10}^+C_{11}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{10},C_{11},D_2)} = \\
& +A_3^+\Phi_{(B_{10},C_{11},D_2)} \\
& +D_2^+\Phi_{(A_3,B_{10},C_{11})} \\
& +A_3^+D_2^+\Phi_{(B_{10},C_{11})} \\
& +B_{10}^+C_{11}^+\Phi_{(A_3,D_2)} \\
& +A_3^+B_{10}^+C_{11}^+\Phi_{(D_2,)} \\
& +B_{10}^+C_{11}^+D_2^+\Phi_{(A_3,)} \\
& +A_3^+B_{10}^+C_{11}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{10},C_{11},D_3)} = \\
& +A_3^+\Phi_{(B_{10},C_{11},D_3)} \\
& +D_3^+\Phi_{(A_3,B_{10},C_{11})} \\
& +A_3^+D_3^+\Phi_{(B_{10},C_{11})} \\
& +B_{10}^+C_{11}^+\Phi_{(A_3,D_3)} \\
& +A_3^+B_{10}^+C_{11}^+\Phi_{(D_3,)} \\
& +B_{10}^+C_{11}^+D_3^+\Phi_{(A_3,)} \\
& +A_3^+B_{10}^+C_{11}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{10},C_{12},D_1)} = \\
& +A_3^+\Phi_{(B_{10},C_{12},D_1)} \\
& +D_1^+\Phi_{(A_3,B_{10},C_{12})} \\
& +A_3^+D_1^+\Phi_{(B_{10},C_{12})} \\
& +B_{10}^+C_{12}^+\Phi_{(A_3,D_1)} \\
& +A_3^+B_{10}^+C_{12}^+\Phi_{(D_1,)} \\
& +B_{10}^+C_{12}^+D_1^+\Phi_{(A_3,)} \\
& +A_3^+B_{10}^+C_{12}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{10}, C_{12}, D_2)} = \\
&+ A_3^+ \Phi_{(B_{10}, C_{12}, D_2)} \\
&+ D_2^+ \Phi_{(A_3, B_{10}, C_{12})} \\
&+ A_3^+ D_2^+ \Phi_{(B_{10}, C_{12})} \\
&+ B_{10}^+ C_{12}^+ \Phi_{(A_3, D_2)} \\
&+ A_3^+ B_{10}^+ C_{12}^+ \Phi_{(D_2,)} \\
&+ B_{10}^+ C_{12}^+ D_2^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{10}^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{10}, C_{12}, D_3)} = \\
&+ A_3^+ \Phi_{(B_{10}, C_{12}, D_3)} \\
&+ D_3^+ \Phi_{(A_3, B_{10}, C_{12})} \\
&+ A_3^+ D_3^+ \Phi_{(B_{10}, C_{12})} \\
&+ B_{10}^+ C_{12}^+ \Phi_{(A_3, D_3)} \\
&+ A_3^+ B_{10}^+ C_{12}^+ \Phi_{(D_3,)} \\
&+ B_{10}^+ C_{12}^+ D_3^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{10}^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{10}, C_{13}, D_4)} = \\
&+ A_3^+ \Phi_{(B_{10}, C_{13}, D_4)} \\
&+ B_{10}^+ C_{13}^+ D_4^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{10}^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{10}, C_{14}, D_4)} = \\
&+ A_3^+ \Phi_{(B_{10}, C_{14}, D_4)} \\
&+ B_{10}^+ C_{14}^+ D_4^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{10}^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{10}, C_{15}, D_7)} = \\
&+ A_3^+ \Phi_{(B_{10}, C_{15}, D_7)} \\
&+ B_{10}^+ C_{15}^+ D_7^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{10}^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{10}, C_{15}, D_8)} = \\
&+ A_3^+ \Phi_{(B_{10}, C_{15}, D_8)} \\
&+ B_{10}^+ C_{15}^+ D_8^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{10}^+ C_{15}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{11}, C_1, D_9)} = \\
&+ A_3^+ \Phi_{(B_{11}, C_1, D_9)} \\
&+ C_1^+ \Phi_{(A_3, B_{11}, D_9)} \\
&+ A_3^+ C_1^+ \Phi_{(B_{11}, D_9)} \\
&+ B_{11}^+ D_9^+ \Phi_{(A_3, C_1)} \\
&+ A_3^+ B_{11}^+ D_9^+ \Phi_{(C_1,)} \\
&+ B_{11}^+ C_1^+ D_9^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{11}^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{11}, C_1, D_{10})} = \\
&+ A_3^+ \Phi_{(B_{11}, C_1, D_{10})} \\
&+ C_1^+ \Phi_{(A_3, B_{11}, D_{10})} \\
&+ A_3^+ C_1^+ \Phi_{(B_{11}, D_{10})} \\
&+ B_{11}^+ D_{10}^+ \Phi_{(A_3, C_1)} \\
&+ A_3^+ B_{11}^+ D_{10}^+ \Phi_{(C_1,)} \\
&+ B_{11}^+ C_1^+ D_{10}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{11}^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_{11}, C_2, D_9)} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_{11}, C_2, D_9)} \\
& +C_2^+ \Phi_{(A_3, B_{11}, D_9)} \\
& +A_3^+ C_2^+ \Phi_{(B_{11}, D_9)} \\
& +B_{11}^+ D_9^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_{11}^+ D_9^+ \Phi_{(C_2,)} \\
& +B_{11}^+ C_2^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{11}^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{11}, C_2, D_{10})} = \\
& +A_3^+ \Phi_{(B_{11}, C_2, D_{10})} \\
& +C_2^+ \Phi_{(A_3, B_{11}, D_{10})} \\
& +A_3^+ C_2^+ \Phi_{(B_{11}, D_{10})} \\
& +B_{11}^+ D_{10}^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_{11}^+ D_{10}^+ \Phi_{(C_2,)} \\
& +B_{11}^+ C_2^+ D_{10}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{11}^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{11}, C_3, D_9)} = \\
& +A_3^+ \Phi_{(B_{11}, C_3, D_9)} \\
& +C_3^+ \Phi_{(A_3, B_{11}, D_9)} \\
& +A_3^+ C_3^+ \Phi_{(B_{11}, D_9)} \\
& +B_{11}^+ D_9^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_{11}^+ D_9^+ \Phi_{(C_3,)} \\
& +B_{11}^+ C_3^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{11}^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{11}, C_3, D_{10})} = \\
& +A_3^+ \Phi_{(B_{11}, C_3, D_{10})} \\
& +C_3^+ \Phi_{(A_3, B_{11}, D_{10})}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ C_3^+ \Phi_{(B_{11}, D_{10})} \\
& +B_{11}^+ D_{10}^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_{11}^+ D_{10}^+ \Phi_{(C_3,)} \\
& +B_{11}^+ C_3^+ D_{10}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{11}^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{11}, C_5, D_7)} = \\
& +A_3^+ \Phi_{(B_{11}, C_5, D_7)} \\
& +B_{11}^+ C_5^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{11}^+ C_5^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{11}, C_5, D_8)} = \\
& +A_3^+ \Phi_{(B_{11}, C_5, D_8)} \\
& +B_{11}^+ C_5^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{11}^+ C_5^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{11}, C_6, D_{13})} = \\
& +A_3^+ \Phi_{(B_{11}, C_6, D_{13})} \\
& +B_{11}^+ C_6^+ D_{13}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{11}^+ C_6^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{11}, C_6, D_{14})} = \\
& +A_3^+ \Phi_{(B_{11}, C_6, D_{14})} \\
& +B_{11}^+ C_6^+ D_{14}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{11}^+ C_6^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{11}, C_7, D_5)} = \\
& +A_3^+ \Phi_{(B_{11}, C_7, D_5)} \\
& +B_{11}^+ C_7^+ D_5^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_{11}^+ C_7^+ D_5^+ \Phi_{()}$$

$$\Phi_{(A_3, B_{11}, C_8, D_5)} =$$

$$+A_3^+ \Phi_{(B_{11}, C_8, D_5)}$$

$$+B_{11}^+ C_8^+ D_5^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{11}^+ C_8^+ D_5^+ \Phi_{()}$$

$$\Phi_{(A_3, B_{11}, C_9, D_1)} =$$

$$+A_3^+ \Phi_{(B_{11}, C_9, D_1)}$$

$$+D_1^+ \Phi_{(A_3, B_{11}, C_9)}$$

$$+A_3^+ D_1^+ \Phi_{(B_{11}, C_9)}$$

$$+B_{11}^+ C_9^+ \Phi_{(A_3, D_1)}$$

$$+A_3^+ B_{11}^+ C_9^+ \Phi_{(D_1,)}$$

$$+B_{11}^+ C_9^+ D_1^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{11}^+ C_9^+ D_1^+ \Phi_{()}$$

$$\Phi_{(A_3, B_{11}, C_9, D_2)} =$$

$$+A_3^+ \Phi_{(B_{11}, C_9, D_2)}$$

$$+D_2^+ \Phi_{(A_3, B_{11}, C_9)}$$

$$+A_3^+ D_2^+ \Phi_{(B_{11}, C_9)}$$

$$+B_{11}^+ C_9^+ \Phi_{(A_3, D_2)}$$

$$+A_3^+ B_{11}^+ C_9^+ \Phi_{(D_2,)}$$

$$+B_{11}^+ C_9^+ D_2^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{11}^+ C_9^+ D_2^+ \Phi_{()}$$

$$\Phi_{(A_3, B_{11}, C_9, D_3)} =$$

$$+A_3^+ \Phi_{(B_{11}, C_9, D_3)}$$

$$+D_3^+ \Phi_{(A_3, B_{11}, C_9)}$$

$$+A_3^+ D_3^+ \Phi_{(B_{11}, C_9)}$$

$$\begin{aligned}
& +B_{11}^+C_9^+\Phi_{(A_3,D_3)} \\
& +A_3^+B_{11}^+C_9^+\Phi_{(D_3,)} \\
& +B_{11}^+C_9^+D_3^+\Phi_{(A_3,)} \\
& +A_3^+B_{11}^+C_9^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{11},C_{10},D_1)} = \\
& +A_3^+\Phi_{(B_{11},C_{10},D_1)} \\
& +D_1^+\Phi_{(A_3,B_{11},C_{10})} \\
& +A_3^+D_1^+\Phi_{(B_{11},C_{10})} \\
& +B_{11}^+C_{10}^+\Phi_{(A_3,D_1)} \\
& +A_3^+B_{11}^+C_{10}^+\Phi_{(D_1,)} \\
& +B_{11}^+C_{10}^+D_1^+\Phi_{(A_3,)} \\
& +A_3^+B_{11}^+C_{10}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{11},C_{10},D_2)} = \\
& +A_3^+\Phi_{(B_{11},C_{10},D_2)} \\
& +D_2^+\Phi_{(A_3,B_{11},C_{10})} \\
& +A_3^+D_2^+\Phi_{(B_{11},C_{10})} \\
& +B_{11}^+C_{10}^+\Phi_{(A_3,D_2)} \\
& +A_3^+B_{11}^+C_{10}^+\Phi_{(D_2,)} \\
& +B_{11}^+C_{10}^+D_2^+\Phi_{(A_3,)} \\
& +A_3^+B_{11}^+C_{10}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{11},C_{10},D_3)} = \\
& +A_3^+\Phi_{(B_{11},C_{10},D_3)} \\
& +D_3^+\Phi_{(A_3,B_{11},C_{10})} \\
& +A_3^+D_3^+\Phi_{(B_{11},C_{10})} \\
& +B_{11}^+C_{10}^+\Phi_{(A_3,D_3)} \\
& +A_3^+B_{11}^+C_{10}^+\Phi_{(D_3,)}
\end{aligned}$$

$$\begin{aligned}
& +B_{11}^+C_{10}^+D_3^+\Phi_{(A_3,)} \\
& +A_3^+B_{11}^+C_{10}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{11},C_{13},D_6)} = \\
& +A_3^+\Phi_{(B_{11},C_{13},D_6)} \\
& +B_{11}^+C_{13}^+D_6^+\Phi_{(A_3,)} \\
& +A_3^+B_{11}^+C_{13}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{11},C_{14},D_6)} = \\
& +A_3^+\Phi_{(B_{11},C_{14},D_6)} \\
& +B_{11}^+C_{14}^+D_6^+\Phi_{(A_3,)} \\
& +A_3^+B_{11}^+C_{14}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{12},C_1,D_9)} = \\
& +A_3^+\Phi_{(B_{12},C_1,D_9)} \\
& +C_1^+\Phi_{(A_3,B_{12},D_9)} \\
& +A_3^+C_1^+\Phi_{(B_{12},D_9)} \\
& +B_{12}^+D_9^+\Phi_{(A_3,C_1)} \\
& +A_3^+B_{12}^+D_9^+\Phi_{(C_1,)} \\
& +B_{12}^+C_1^+D_9^+\Phi_{(A_3,)} \\
& +A_3^+B_{12}^+C_1^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{12},C_1,D_{10})} = \\
& +A_3^+\Phi_{(B_{12},C_1,D_{10})} \\
& +C_1^+\Phi_{(A_3,B_{12},D_{10})} \\
& +A_3^+C_1^+\Phi_{(B_{12},D_{10})} \\
& +B_{12}^+D_{10}^+\Phi_{(A_3,C_1)} \\
& +A_3^+B_{12}^+D_{10}^+\Phi_{(C_1,)} \\
& +B_{12}^+C_1^+D_{10}^+\Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_{12}^+ C_1^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_{12}, C_2, D_9)} =$$

$$+A_3^+ \Phi_{(B_{12}, C_2, D_9)}$$

$$+C_2^+ \Phi_{(A_3, B_{12}, D_9)}$$

$$+A_3^+ C_2^+ \Phi_{(B_{12}, D_9)}$$

$$+B_{12}^+ D_9^+ \Phi_{(A_3, C_2)}$$

$$+A_3^+ B_{12}^+ D_9^+ \Phi_{(C_2,)}$$

$$+B_{12}^+ C_2^+ D_9^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{12}^+ C_2^+ D_9^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_{12}, C_2, D_{10})} =$$

$$+A_3^+ \Phi_{(B_{12}, C_2, D_{10})}$$

$$+C_2^+ \Phi_{(A_3, B_{12}, D_{10})}$$

$$+A_3^+ C_2^+ \Phi_{(B_{12}, D_{10})}$$

$$+B_{12}^+ D_{10}^+ \Phi_{(A_3, C_2)}$$

$$+A_3^+ B_{12}^+ D_{10}^+ \Phi_{(C_2,)}$$

$$+B_{12}^+ C_2^+ D_{10}^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{12}^+ C_2^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_3, B_{12}, C_3, D_9)} =$$

$$+A_3^+ \Phi_{(B_{12}, C_3, D_9)}$$

$$+C_3^+ \Phi_{(A_3, B_{12}, D_9)}$$

$$+A_3^+ C_3^+ \Phi_{(B_{12}, D_9)}$$

$$+B_{12}^+ D_9^+ \Phi_{(A_3, C_3)}$$

$$+A_3^+ B_{12}^+ D_9^+ \Phi_{(C_3,)}$$

$$+B_{12}^+ C_3^+ D_9^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{12}^+ C_3^+ D_9^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_3, B_{12}, C_3, D_{10})} = \\
&+ A_3^+ \Phi_{(B_{12}, C_3, D_{10})} \\
&+ C_3^+ \Phi_{(A_3, B_{12}, D_{10})} \\
&+ A_3^+ C_3^+ \Phi_{(B_{12}, D_{10})} \\
&+ B_{12}^+ D_{10}^+ \Phi_{(A_3, C_3)} \\
&+ A_3^+ B_{12}^+ D_{10}^+ \Phi_{(C_3,)} \\
&+ B_{12}^+ C_3^+ D_{10}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{12}^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{12}, C_5, D_7)} = \\
&+ A_3^+ \Phi_{(B_{12}, C_5, D_7)} \\
&+ B_{12}^+ C_5^+ D_7^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{12}^+ C_5^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{12}, C_5, D_8)} = \\
&+ A_3^+ \Phi_{(B_{12}, C_5, D_8)} \\
&+ B_{12}^+ C_5^+ D_8^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{12}^+ C_5^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{12}, C_6, D_{13})} = \\
&+ A_3^+ \Phi_{(B_{12}, C_6, D_{13})} \\
&+ B_{12}^+ C_6^+ D_{13}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{12}^+ C_6^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{12}, C_6, D_{14})} = \\
&+ A_3^+ \Phi_{(B_{12}, C_6, D_{14})} \\
&+ B_{12}^+ C_6^+ D_{14}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{12}^+ C_6^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{12}, C_7, D_5)} = \\
&+ A_3^+ \Phi_{(B_{12}, C_7, D_5)} \\
&+ B_{12}^+ C_7^+ D_5^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{12}^+ C_7^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{12}, C_8, D_5)} = \\
&+ A_3^+ \Phi_{(B_{12}, C_8, D_5)} \\
&+ B_{12}^+ C_8^+ D_5^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{12}^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{12}, C_9, D_1)} = \\
&+ A_3^+ \Phi_{(B_{12}, C_9, D_1)} \\
&+ D_1^+ \Phi_{(A_3, B_{12}, C_9)} \\
&+ A_3^+ D_1^+ \Phi_{(B_{12}, C_9)} \\
&+ B_{12}^+ C_9^+ \Phi_{(A_3, D_1)} \\
&+ A_3^+ B_{12}^+ C_9^+ \Phi_{(D_1,)} \\
&+ B_{12}^+ C_9^+ D_1^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{12}^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{12}, C_9, D_2)} = \\
&+ A_3^+ \Phi_{(B_{12}, C_9, D_2)} \\
&+ D_2^+ \Phi_{(A_3, B_{12}, C_9)} \\
&+ A_3^+ D_2^+ \Phi_{(B_{12}, C_9)} \\
&+ B_{12}^+ C_9^+ \Phi_{(A_3, D_2)} \\
&+ A_3^+ B_{12}^+ C_9^+ \Phi_{(D_2,)} \\
&+ B_{12}^+ C_9^+ D_2^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{12}^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_{12}, C_9, D_3)} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_{12}, C_9, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_{12}, C_9)} \\
& +A_3^+ D_3^+ \Phi_{(B_{12}, C_9)} \\
& +B_{12}^+ C_9^+ \Phi_{(A_3, D_3)} \\
& +A_3^+ B_{12}^+ C_9^+ \Phi_{(D_3,)} \\
& +B_{12}^+ C_9^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{12}^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{12}, C_{10}, D_1)} = \\
& +A_3^+ \Phi_{(B_{12}, C_{10}, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_{12}, C_{10})} \\
& +A_3^+ D_1^+ \Phi_{(B_{12}, C_{10})} \\
& +B_{12}^+ C_{10}^+ \Phi_{(A_3, D_1)} \\
& +A_3^+ B_{12}^+ C_{10}^+ \Phi_{(D_1,)} \\
& +B_{12}^+ C_{10}^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{12}^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{12}, C_{10}, D_2)} = \\
& +A_3^+ \Phi_{(B_{12}, C_{10}, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_{12}, C_{10})} \\
& +A_3^+ D_2^+ \Phi_{(B_{12}, C_{10})} \\
& +B_{12}^+ C_{10}^+ \Phi_{(A_3, D_2)} \\
& +A_3^+ B_{12}^+ C_{10}^+ \Phi_{(D_2,)} \\
& +B_{12}^+ C_{10}^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{12}^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{12}, C_{10}, D_3)} = \\
& +A_3^+ \Phi_{(B_{12}, C_{10}, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_{12}, C_{10})}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ D_3^+ \Phi_{(B_{12}, C_{10})} \\
& +B_{12}^+ C_{10}^+ \Phi_{(A_3, D_3)} \\
& +A_3^+ B_{12}^+ C_{10}^+ \Phi_{(D_3,)} \\
& +B_{12}^+ C_{10}^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{12}^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{12}, C_{13}, D_6)} = \\
& +A_3^+ \Phi_{(B_{12}, C_{13}, D_6)} \\
& +B_{12}^+ C_{13}^+ D_6^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{12}^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{12}, C_{14}, D_6)} = \\
& +A_3^+ \Phi_{(B_{12}, C_{14}, D_6)} \\
& +B_{12}^+ C_{14}^+ D_6^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{12}^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_1, D_7)} = \\
& +A_3^+ \Phi_{(B_{13}, C_1, D_7)} \\
& +C_1^+ \Phi_{(A_3, B_{13}, D_7)} \\
& +A_3^+ C_1^+ \Phi_{(B_{13}, D_7)} \\
& +B_{13}^+ D_7^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_{13}^+ D_7^+ \Phi_{(C_1,)} \\
& +B_{13}^+ C_1^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{13}^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_1, D_8)} = \\
& +A_3^+ \Phi_{(B_{13}, C_1, D_8)} \\
& +C_1^+ \Phi_{(A_3, B_{13}, D_8)} \\
& +A_3^+ C_1^+ \Phi_{(B_{13}, D_8)}
\end{aligned}$$

$$\begin{aligned}
& +B_{13}^+ D_8^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_{13}^+ D_8^+ \Phi_{(C_1,)} \\
& +B_{13}^+ C_1^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{13}^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_2, D_7)} = \\
& +A_3^+ \Phi_{(B_{13}, C_2, D_7)} \\
& +C_2^+ \Phi_{(A_3, B_{13}, D_7)} \\
& +A_3^+ C_2^+ \Phi_{(B_{13}, D_7)} \\
& +B_{13}^+ D_7^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_{13}^+ D_7^+ \Phi_{(C_2,)} \\
& +B_{13}^+ C_2^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{13}^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_2, D_8)} = \\
& +A_3^+ \Phi_{(B_{13}, C_2, D_8)} \\
& +C_2^+ \Phi_{(A_3, B_{13}, D_8)} \\
& +A_3^+ C_2^+ \Phi_{(B_{13}, D_8)} \\
& +B_{13}^+ D_8^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_{13}^+ D_8^+ \Phi_{(C_2,)} \\
& +B_{13}^+ C_2^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{13}^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_3, D_7)} = \\
& +A_3^+ \Phi_{(B_{13}, C_3, D_7)} \\
& +C_3^+ \Phi_{(A_3, B_{13}, D_7)} \\
& +A_3^+ C_3^+ \Phi_{(B_{13}, D_7)} \\
& +B_{13}^+ D_7^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_{13}^+ D_7^+ \Phi_{(C_3,)}
\end{aligned}$$

$$\begin{aligned}
& +B_{13}^+C_3^+D_7^+\Phi_{(A_3,)} \\
& +A_3^+B_{13}^+C_3^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{13},C_3,D_8)} = \\
& +A_3^+\Phi_{(B_{13},C_3,D_8)} \\
& +C_3^+\Phi_{(A_3,B_{13},D_8)} \\
& +A_3^+C_3^+\Phi_{(B_{13},D_8)} \\
& +B_{13}^+D_8^+\Phi_{(A_3,C_3)} \\
& +A_3^+B_{13}^+D_8^+\Phi_{(C_3,)} \\
& +B_{13}^+C_3^+D_8^+\Phi_{(A_3,)} \\
& +A_3^+B_{13}^+C_3^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{13},C_4,D_9)} = \\
& +A_3^+\Phi_{(B_{13},C_4,D_9)} \\
& +B_{13}^+C_4^+D_9^+\Phi_{(A_3,)} \\
& +A_3^+B_{13}^+C_4^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{13},C_4,D_{10})} = \\
& +A_3^+\Phi_{(B_{13},C_4,D_{10})} \\
& +B_{13}^+C_4^+D_{10}^+\Phi_{(A_3,)} \\
& +A_3^+B_{13}^+C_4^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{13},C_6,D_{11})} = \\
& +A_3^+\Phi_{(B_{13},C_6,D_{11})} \\
& +B_{13}^+C_6^+D_{11}^+\Phi_{(A_3,)} \\
& +A_3^+B_{13}^+C_6^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_3,B_{13},C_6,D_{12})} = \\
& +A_3^+\Phi_{(B_{13},C_6,D_{12})}
\end{aligned}$$

$$+B_{13}^+C_6^+D_{12}^+\Phi_{(A_3,)}$$

$$+A_3^+B_{13}^+C_6^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_3,B_{13},C_7,D_1)} =$$

$$+A_3^+\Phi_{(B_{13},C_7,D_1)}$$

$$+D_1^+\Phi_{(A_3,B_{13},C_7)}$$

$$+A_3^+D_1^+\Phi_{(B_{13},C_7)}$$

$$+B_{13}^+C_7^+\Phi_{(A_3,D_1)}$$

$$+A_3^+B_{13}^+C_7^+\Phi_{(D_1,)}$$

$$+B_{13}^+C_7^+D_1^+\Phi_{(A_3,)}$$

$$+A_3^+B_{13}^+C_7^+D_1^+\Phi_{()}$$

$$\Phi_{(A_3,B_{13},C_7,D_2)} =$$

$$+A_3^+\Phi_{(B_{13},C_7,D_2)}$$

$$+D_2^+\Phi_{(A_3,B_{13},C_7)}$$

$$+A_3^+D_2^+\Phi_{(B_{13},C_7)}$$

$$+B_{13}^+C_7^+\Phi_{(A_3,D_2)}$$

$$+A_3^+B_{13}^+C_7^+\Phi_{(D_2,)}$$

$$+B_{13}^+C_7^+D_2^+\Phi_{(A_3,)}$$

$$+A_3^+B_{13}^+C_7^+D_2^+\Phi_{()}$$

$$\Phi_{(A_3,B_{13},C_7,D_3)} =$$

$$+A_3^+\Phi_{(B_{13},C_7,D_3)}$$

$$+D_3^+\Phi_{(A_3,B_{13},C_7)}$$

$$+A_3^+D_3^+\Phi_{(B_{13},C_7)}$$

$$+B_{13}^+C_7^+\Phi_{(A_3,D_3)}$$

$$+A_3^+B_{13}^+C_7^+\Phi_{(D_3,)}$$

$$+B_{13}^+C_7^+D_3^+\Phi_{(A_3,)}$$

$$+A_3^+B_{13}^+C_7^+D_3^+\Phi_{()}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_8, D_1)} = \\
& + A_3^+ \Phi_{(B_{13}, C_8, D_1)} \\
& + D_1^+ \Phi_{(A_3, B_{13}, C_8)} \\
& + A_3^+ D_1^+ \Phi_{(B_{13}, C_8)} \\
& + B_{13}^+ C_8^+ \Phi_{(A_3, D_1)} \\
& + A_3^+ B_{13}^+ C_8^+ \Phi_{(D_1,)} \\
& + B_{13}^+ C_8^+ D_1^+ \Phi_{(A_3,)} \\
& + A_3^+ B_{13}^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_8, D_2)} = \\
& + A_3^+ \Phi_{(B_{13}, C_8, D_2)} \\
& + D_2^+ \Phi_{(A_3, B_{13}, C_8)} \\
& + A_3^+ D_2^+ \Phi_{(B_{13}, C_8)} \\
& + B_{13}^+ C_8^+ \Phi_{(A_3, D_2)} \\
& + A_3^+ B_{13}^+ C_8^+ \Phi_{(D_2,)} \\
& + B_{13}^+ C_8^+ D_2^+ \Phi_{(A_3,)} \\
& + A_3^+ B_{13}^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_8, D_3)} = \\
& + A_3^+ \Phi_{(B_{13}, C_8, D_3)} \\
& + D_3^+ \Phi_{(A_3, B_{13}, C_8)} \\
& + A_3^+ D_3^+ \Phi_{(B_{13}, C_8)} \\
& + B_{13}^+ C_8^+ \Phi_{(A_3, D_3)} \\
& + A_3^+ B_{13}^+ C_8^+ \Phi_{(D_3,)} \\
& + B_{13}^+ C_8^+ D_3^+ \Phi_{(A_3,)} \\
& + A_3^+ B_{13}^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_{13}, C_9, D_4)} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_{13}, C_9, D_4)} \\
& +B_{13}^+ C_9^+ D_4^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{13}^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_{10}, D_4)} = \\
& +A_3^+ \Phi_{(B_{13}, C_{10}, D_4)} \\
& +B_{13}^+ C_{10}^+ D_4^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{13}^+ C_{10}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_{11}, D_6)} = \\
& +A_3^+ \Phi_{(B_{13}, C_{11}, D_6)} \\
& +B_{13}^+ C_{11}^+ D_6^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{13}^+ C_{11}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{13}, C_{12}, D_6)} = \\
& +A_3^+ \Phi_{(B_{13}, C_{12}, D_6)} \\
& +B_{13}^+ C_{12}^+ D_6^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{13}^+ C_{12}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_1, D_7)} = \\
& +A_3^+ \Phi_{(B_{14}, C_1, D_7)} \\
& +C_1^+ \Phi_{(A_3, B_{14}, D_7)} \\
& +A_3^+ C_1^+ \Phi_{(B_{14}, D_7)} \\
& +B_{14}^+ D_7^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_{14}^+ D_7^+ \Phi_{(C_1,)} \\
& +B_{14}^+ C_1^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_{14}, C_1, D_8)} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_{14}, C_1, D_8)} \\
& +C_1^+ \Phi_{(A_3, B_{14}, D_8)} \\
& +A_3^+ C_1^+ \Phi_{(B_{14}, D_8)} \\
& +B_{14}^+ D_8^+ \Phi_{(A_3, C_1)} \\
& +A_3^+ B_{14}^+ D_8^+ \Phi_{(C_1,)} \\
& +B_{14}^+ C_1^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_2, D_7)} = \\
& +A_3^+ \Phi_{(B_{14}, C_2, D_7)} \\
& +C_2^+ \Phi_{(A_3, B_{14}, D_7)} \\
& +A_3^+ C_2^+ \Phi_{(B_{14}, D_7)} \\
& +B_{14}^+ D_7^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_{14}^+ D_7^+ \Phi_{(C_2,)} \\
& +B_{14}^+ C_2^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_2, D_8)} = \\
& +A_3^+ \Phi_{(B_{14}, C_2, D_8)} \\
& +C_2^+ \Phi_{(A_3, B_{14}, D_8)} \\
& +A_3^+ C_2^+ \Phi_{(B_{14}, D_8)} \\
& +B_{14}^+ D_8^+ \Phi_{(A_3, C_2)} \\
& +A_3^+ B_{14}^+ D_8^+ \Phi_{(C_2,)} \\
& +B_{14}^+ C_2^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_3, D_7)} = \\
& +A_3^+ \Phi_{(B_{14}, C_3, D_7)} \\
& +C_3^+ \Phi_{(A_3, B_{14}, D_7)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ C_3^+ \Phi_{(B_{14}, D_7)} \\
& +B_{14}^+ D_7^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_{14}^+ D_7^+ \Phi_{(C_3,)} \\
& +B_{14}^+ C_3^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_3, D_8)} = \\
& +A_3^+ \Phi_{(B_{14}, C_3, D_8)} \\
& +C_3^+ \Phi_{(A_3, B_{14}, D_8)} \\
& +A_3^+ C_3^+ \Phi_{(B_{14}, D_8)} \\
& +B_{14}^+ D_8^+ \Phi_{(A_3, C_3)} \\
& +A_3^+ B_{14}^+ D_8^+ \Phi_{(C_3,)} \\
& +B_{14}^+ C_3^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_4, D_9)} = \\
& +A_3^+ \Phi_{(B_{14}, C_4, D_9)} \\
& +B_{14}^+ C_4^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_4, D_{10})} = \\
& +A_3^+ \Phi_{(B_{14}, C_4, D_{10})} \\
& +B_{14}^+ C_4^+ D_{10}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_6, D_{11})} = \\
& +A_3^+ \Phi_{(B_{14}, C_6, D_{11})} \\
& +B_{14}^+ C_6^+ D_{11}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{14}, C_6, D_{12})} = \\
&+ A_3^+ \Phi_{(B_{14}, C_6, D_{12})} \\
&+ B_{14}^+ C_6^+ D_{12}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{14}^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{14}, C_7, D_1)} = \\
&+ A_3^+ \Phi_{(B_{14}, C_7, D_1)} \\
&+ D_1^+ \Phi_{(A_3, B_{14}, C_7)} \\
&+ A_3^+ D_1^+ \Phi_{(B_{14}, C_7)} \\
&+ B_{14}^+ C_7^+ \Phi_{(A_3, D_1)} \\
&+ A_3^+ B_{14}^+ C_7^+ \Phi_{(D_1,)} \\
&+ B_{14}^+ C_7^+ D_1^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{14}^+ C_7^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{14}, C_7, D_2)} = \\
&+ A_3^+ \Phi_{(B_{14}, C_7, D_2)} \\
&+ D_2^+ \Phi_{(A_3, B_{14}, C_7)} \\
&+ A_3^+ D_2^+ \Phi_{(B_{14}, C_7)} \\
&+ B_{14}^+ C_7^+ \Phi_{(A_3, D_2)} \\
&+ A_3^+ B_{14}^+ C_7^+ \Phi_{(D_2,)} \\
&+ B_{14}^+ C_7^+ D_2^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{14}^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{14}, C_7, D_3)} = \\
&+ A_3^+ \Phi_{(B_{14}, C_7, D_3)} \\
&+ D_3^+ \Phi_{(A_3, B_{14}, C_7)} \\
&+ A_3^+ D_3^+ \Phi_{(B_{14}, C_7)} \\
&+ B_{14}^+ C_7^+ \Phi_{(A_3, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_3^+ B_{14}^+ C_7^+ \Phi_{(D_3,)} \\
& +B_{14}^+ C_7^+ D_3^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_8, D_1)} = \\
& +A_3^+ \Phi_{(B_{14}, C_8, D_1)} \\
& +D_1^+ \Phi_{(A_3, B_{14}, C_8)} \\
& +A_3^+ D_1^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_3, D_1)} \\
& +A_3^+ B_{14}^+ C_8^+ \Phi_{(D_1,)} \\
& +B_{14}^+ C_8^+ D_1^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_8, D_2)} = \\
& +A_3^+ \Phi_{(B_{14}, C_8, D_2)} \\
& +D_2^+ \Phi_{(A_3, B_{14}, C_8)} \\
& +A_3^+ D_2^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_3, D_2)} \\
& +A_3^+ B_{14}^+ C_8^+ \Phi_{(D_2,)} \\
& +B_{14}^+ C_8^+ D_2^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{14}^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{14}, C_8, D_3)} = \\
& +A_3^+ \Phi_{(B_{14}, C_8, D_3)} \\
& +D_3^+ \Phi_{(A_3, B_{14}, C_8)} \\
& +A_3^+ D_3^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_3, D_3)} \\
& +A_3^+ B_{14}^+ C_8^+ \Phi_{(D_3,)} \\
& +B_{14}^+ C_8^+ D_3^+ \Phi_{(A_3,)}
\end{aligned}$$

$$+A_3^+ B_{14}^+ C_8^+ D_3^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_3, B_{14}, C_9, D_4)} = \\ +A_3^+ \Phi_{(B_{14}, C_9, D_4)} \\ +B_{14}^+ C_9^+ D_4^+ \Phi_{(A_3,)} \\ +A_3^+ B_{14}^+ C_9^+ D_4^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_3, B_{14}, C_{10}, D_4)} = \\ +A_3^+ \Phi_{(B_{14}, C_{10}, D_4)} \\ +B_{14}^+ C_{10}^+ D_4^+ \Phi_{(A_3,)} \\ +A_3^+ B_{14}^+ C_{10}^+ D_4^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_3, B_{14}, C_{11}, D_6)} = \\ +A_3^+ \Phi_{(B_{14}, C_{11}, D_6)} \\ +B_{14}^+ C_{11}^+ D_6^+ \Phi_{(A_3,)} \\ +A_3^+ B_{14}^+ C_{11}^+ D_6^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_3, B_{14}, C_{12}, D_6)} = \\ +A_3^+ \Phi_{(B_{14}, C_{12}, D_6)} \\ +B_{14}^+ C_{12}^+ D_6^+ \Phi_{(A_3,)} \\ +A_3^+ B_{14}^+ C_{12}^+ D_6^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_3, B_{15}, C_1, D_6)} = \\ +A_3^+ \Phi_{(B_{15}, C_1, D_6)} \\ +C_1^+ \Phi_{(A_3, B_{15}, D_6)} \\ +A_3^+ C_1^+ \Phi_{(B_{15}, D_6)} \\ +B_{15}^+ D_6^+ \Phi_{(A_3, C_1)} \\ +A_3^+ B_{15}^+ D_6^+ \Phi_{(C_1,)} \\ +B_{15}^+ C_1^+ D_6^+ \Phi_{(A_3,)} \end{aligned}$$

$$+A_3^+ B_{15}^+ C_1^+ D_6^+ \Phi_{()}$$

$$\Phi_{(A_3, B_{15}, C_2, D_6)} =$$

$$+A_3^+ \Phi_{(B_{15}, C_2, D_6)}$$

$$+C_2^+ \Phi_{(A_3, B_{15}, D_6)}$$

$$+A_3^+ C_2^+ \Phi_{(B_{15}, D_6)}$$

$$+B_{15}^+ D_6^+ \Phi_{(A_3, C_2)}$$

$$+A_3^+ B_{15}^+ D_6^+ \Phi_{(C_2,)}$$

$$+B_{15}^+ C_2^+ D_6^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{15}^+ C_2^+ D_6^+ \Phi_{()}$$

$$\Phi_{(A_3, B_{15}, C_3, D_6)} =$$

$$+A_3^+ \Phi_{(B_{15}, C_3, D_6)}$$

$$+C_3^+ \Phi_{(A_3, B_{15}, D_6)}$$

$$+A_3^+ C_3^+ \Phi_{(B_{15}, D_6)}$$

$$+B_{15}^+ D_6^+ \Phi_{(A_3, C_3)}$$

$$+A_3^+ B_{15}^+ D_6^+ \Phi_{(C_3,)}$$

$$+B_{15}^+ C_3^+ D_6^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{15}^+ C_3^+ D_6^+ \Phi_{()}$$

$$\Phi_{(A_3, B_{15}, C_6, D_1)} =$$

$$+A_3^+ \Phi_{(B_{15}, C_6, D_1)}$$

$$+D_1^+ \Phi_{(A_3, B_{15}, C_6)}$$

$$+A_3^+ D_1^+ \Phi_{(B_{15}, C_6)}$$

$$+B_{15}^+ C_6^+ \Phi_{(A_3, D_1)}$$

$$+A_3^+ B_{15}^+ C_6^+ \Phi_{(D_1,)}$$

$$+B_{15}^+ C_6^+ D_1^+ \Phi_{(A_3,)}$$

$$+A_3^+ B_{15}^+ C_6^+ D_1^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{15}, C_6, D_2)} = \\
&+ A_3^+ \Phi_{(B_{15}, C_6, D_2)} \\
&+ D_2^+ \Phi_{(A_3, B_{15}, C_6)} \\
&+ A_3^+ D_2^+ \Phi_{(B_{15}, C_6)} \\
&+ B_{15}^+ C_6^+ \Phi_{(A_3, D_2)} \\
&+ A_3^+ B_{15}^+ C_6^+ \Phi_{(D_2,)} \\
&+ B_{15}^+ C_6^+ D_2^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{15}^+ C_6^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{15}, C_6, D_3)} = \\
&+ A_3^+ \Phi_{(B_{15}, C_6, D_3)} \\
&+ D_3^+ \Phi_{(A_3, B_{15}, C_6)} \\
&+ A_3^+ D_3^+ \Phi_{(B_{15}, C_6)} \\
&+ B_{15}^+ C_6^+ \Phi_{(A_3, D_3)} \\
&+ A_3^+ B_{15}^+ C_6^+ \Phi_{(D_3,)} \\
&+ B_{15}^+ C_6^+ D_3^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{15}^+ C_6^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{15}, C_7, D_9)} = \\
&+ A_3^+ \Phi_{(B_{15}, C_7, D_9)} \\
&+ B_{15}^+ C_7^+ D_9^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{15}^+ C_7^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_3, B_{15}, C_7, D_{10})} = \\
&+ A_3^+ \Phi_{(B_{15}, C_7, D_{10})} \\
&+ B_{15}^+ C_7^+ D_{10}^+ \Phi_{(A_3,)} \\
&+ A_3^+ B_{15}^+ C_7^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_3, B_{15}, C_8, D_9)} =$$

$$\begin{aligned}
& +A_3^+ \Phi_{(B_{15}, C_8, D_9)} \\
& +B_{15}^+ C_8^+ D_9^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{15}^+ C_8^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{15}, C_8, D_{10})} = \\
& +A_3^+ \Phi_{(B_{15}, C_8, D_{10})} \\
& +B_{15}^+ C_8^+ D_{10}^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{15}^+ C_8^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{15}, C_9, D_7)} = \\
& +A_3^+ \Phi_{(B_{15}, C_9, D_7)} \\
& +B_{15}^+ C_9^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{15}^+ C_9^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{15}, C_9, D_8)} = \\
& +A_3^+ \Phi_{(B_{15}, C_9, D_8)} \\
& +B_{15}^+ C_9^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{15}^+ C_9^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{15}, C_{10}, D_7)} = \\
& +A_3^+ \Phi_{(B_{15}, C_{10}, D_7)} \\
& +B_{15}^+ C_{10}^+ D_7^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{15}^+ C_{10}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_3, B_{15}, C_{10}, D_8)} = \\
& +A_3^+ \Phi_{(B_{15}, C_{10}, D_8)} \\
& +B_{15}^+ C_{10}^+ D_8^+ \Phi_{(A_3,)} \\
& +A_3^+ B_{15}^+ C_{10}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_1, D_5)} = \\
&+B_1^+ \Phi_{(A_4, C_1, D_5)} \\
&+C_1^+ \Phi_{(A_4, B_1, D_5)} \\
&+A_4^+ D_5^+ \Phi_{(B_1, C_1)} \\
&+B_1^+ C_1^+ \Phi_{(A_4, D_5)} \\
&+A_4^+ B_1^+ D_5^+ \Phi_{(C_1,)} \\
&+A_4^+ C_1^+ D_5^+ \Phi_{(B_1,)} \\
&+A_4^+ B_1^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_2, D_5)} = \\
&+B_1^+ \Phi_{(A_4, C_2, D_5)} \\
&+C_2^+ \Phi_{(A_4, B_1, D_5)} \\
&+A_4^+ D_5^+ \Phi_{(B_1, C_2)} \\
&+B_1^+ C_2^+ \Phi_{(A_4, D_5)} \\
&+A_4^+ B_1^+ D_5^+ \Phi_{(C_2,)} \\
&+A_4^+ C_2^+ D_5^+ \Phi_{(B_1,)} \\
&+A_4^+ B_1^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_3, D_5)} = \\
&+B_1^+ \Phi_{(A_4, C_3, D_5)} \\
&+C_3^+ \Phi_{(A_4, B_1, D_5)} \\
&+A_4^+ D_5^+ \Phi_{(B_1, C_3)} \\
&+B_1^+ C_3^+ \Phi_{(A_4, D_5)} \\
&+A_4^+ B_1^+ D_5^+ \Phi_{(C_3,)} \\
&+A_4^+ C_3^+ D_5^+ \Phi_{(B_1,)} \\
&+A_4^+ B_1^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_5, D_1)} = \\
&+B_1^+ \Phi_{(A_4, C_5, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_4, B_1, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_1^+ C_5^+ \Phi_{(D_1,)} \\
& +A_4^+ C_5^+ D_1^+ \Phi_{(B_1,)} \\
& +A_4^+ B_1^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_1, C_5, D_2)} = \\
& +B_1^+ \Phi_{(A_4, C_5, D_2)} \\
& +D_2^+ \Phi_{(A_4, B_1, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_1^+ C_5^+ \Phi_{(D_2,)} \\
& +A_4^+ C_5^+ D_2^+ \Phi_{(B_1,)} \\
& +A_4^+ B_1^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_1, C_5, D_3)} = \\
& +B_1^+ \Phi_{(A_4, C_5, D_3)} \\
& +D_3^+ \Phi_{(A_4, B_1, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_1^+ C_5^+ \Phi_{(D_3,)} \\
& +A_4^+ C_5^+ D_3^+ \Phi_{(B_1,)} \\
& +A_4^+ B_1^+ C_5^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_1, C_9, D_{13})} = \\
& +B_1^+ \Phi_{(A_4, C_9, D_{13})} \\
& +A_4^+ C_9^+ D_{13}^+ \Phi_{(B_1,)} \\
& +A_4^+ B_1^+ C_9^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_9, D_{14})} = \\
&+ B_1^+ \Phi_{(A_4, C_9, D_{14})} \\
&+ A_4^+ C_9^+ D_{14}^+ \Phi_{(B_1,)} \\
&+ A_4^+ B_1^+ C_9^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_{10}, D_{13})} = \\
&+ B_1^+ \Phi_{(A_4, C_{10}, D_{13})} \\
&+ A_4^+ C_{10}^+ D_{13}^+ \Phi_{(B_1,)} \\
&+ A_4^+ B_1^+ C_{10}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_{10}, D_{14})} = \\
&+ B_1^+ \Phi_{(A_4, C_{10}, D_{14})} \\
&+ A_4^+ C_{10}^+ D_{14}^+ \Phi_{(B_1,)} \\
&+ A_4^+ B_1^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_{13}, D_9)} = \\
&+ B_1^+ \Phi_{(A_4, C_{13}, D_9)} \\
&+ A_4^+ C_{13}^+ D_9^+ \Phi_{(B_1,)} \\
&+ A_4^+ B_1^+ C_{13}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_{13}, D_{10})} = \\
&+ B_1^+ \Phi_{(A_4, C_{13}, D_{10})} \\
&+ A_4^+ C_{13}^+ D_{10}^+ \Phi_{(B_1,)} \\
&+ A_4^+ B_1^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_1, C_{14}, D_9)} = \\
&+ B_1^+ \Phi_{(A_4, C_{14}, D_9)} \\
&+ A_4^+ C_{14}^+ D_9^+ \Phi_{(B_1,)}
\end{aligned}$$

$$+A_4^+B_1^+C_{14}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_4,B_1,C_{14},D_{10})} =$$

$$+B_1^+\Phi_{(A_4,C_{14},D_{10})}$$

$$+A_4^+C_{14}^+D_{10}^+\Phi_{(B_1,)}$$

$$+A_4^+B_1^+C_{14}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_4,B_2,C_1,D_5)} =$$

$$+B_2^+\Phi_{(A_4,C_1,D_5)}$$

$$+C_1^+\Phi_{(A_4,B_2,D_5)}$$

$$+A_4^+D_5^+\Phi_{(B_2,C_1)}$$

$$+B_2^+C_1^+\Phi_{(A_4,D_5)}$$

$$+A_4^+B_2^+D_5^+\Phi_{(C_1,)}$$

$$+A_4^+C_1^+D_5^+\Phi_{(B_2,)}$$

$$+A_4^+B_2^+C_1^+D_5^+\Phi_{()}$$

$$\Phi_{(A_4,B_2,C_2,D_5)} =$$

$$+B_2^+\Phi_{(A_4,C_2,D_5)}$$

$$+C_2^+\Phi_{(A_4,B_2,D_5)}$$

$$+A_4^+D_5^+\Phi_{(B_2,C_2)}$$

$$+B_2^+C_2^+\Phi_{(A_4,D_5)}$$

$$+A_4^+B_2^+D_5^+\Phi_{(C_2,)}$$

$$+A_4^+C_2^+D_5^+\Phi_{(B_2,)}$$

$$+A_4^+B_2^+C_2^+D_5^+\Phi_{()}$$

$$\Phi_{(A_4,B_2,C_3,D_5)} =$$

$$+B_2^+\Phi_{(A_4,C_3,D_5)}$$

$$+C_3^+\Phi_{(A_4,B_2,D_5)}$$

$$+A_4^+D_5^+\Phi_{(B_2,C_3)}$$

$$\begin{aligned}
& +B_2^+ C_3^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_2^+ D_5^+ \Phi_{(C_3,)} \\
& +A_4^+ C_3^+ D_5^+ \Phi_{(B_2,)} \\
& +A_4^+ B_2^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_2, C_5, D_1)} = \\
& +B_2^+ \Phi_{(A_4, C_5, D_1)} \\
& +D_1^+ \Phi_{(A_4, B_2, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_2^+ C_5^+ \Phi_{(D_1,)} \\
& +A_4^+ C_5^+ D_1^+ \Phi_{(B_2,)} \\
& +A_4^+ B_2^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_2, C_5, D_2)} = \\
& +B_2^+ \Phi_{(A_4, C_5, D_2)} \\
& +D_2^+ \Phi_{(A_4, B_2, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_2^+ C_5^+ \Phi_{(D_2,)} \\
& +A_4^+ C_5^+ D_2^+ \Phi_{(B_2,)} \\
& +A_4^+ B_2^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_2, C_5, D_3)} = \\
& +B_2^+ \Phi_{(A_4, C_5, D_3)} \\
& +D_3^+ \Phi_{(A_4, B_2, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_2^+ C_5^+ \Phi_{(D_3,)}
\end{aligned}$$

$$\begin{aligned}
& +A_4^+C_5^+D_3^+\Phi_{(B_2,)} \\
& +A_4^+B_2^+C_5^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_2,C_9,D_{13})} = \\
& +B_2^+\Phi_{(A_4,C_9,D_{13})} \\
& +A_4^+C_9^+D_{13}^+\Phi_{(B_2,)} \\
& +A_4^+B_2^+C_9^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_2,C_9,D_{14})} = \\
& +B_2^+\Phi_{(A_4,C_9,D_{14})} \\
& +A_4^+C_9^+D_{14}^+\Phi_{(B_2,)} \\
& +A_4^+B_2^+C_9^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_2,C_{10},D_{13})} = \\
& +B_2^+\Phi_{(A_4,C_{10},D_{13})} \\
& +A_4^+C_{10}^+D_{13}^+\Phi_{(B_2,)} \\
& +A_4^+B_2^+C_{10}^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_2,C_{10},D_{14})} = \\
& +B_2^+\Phi_{(A_4,C_{10},D_{14})} \\
& +A_4^+C_{10}^+D_{14}^+\Phi_{(B_2,)} \\
& +A_4^+B_2^+C_{10}^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_2,C_{13},D_9)} = \\
& +B_2^+\Phi_{(A_4,C_{13},D_9)} \\
& +A_4^+C_{13}^+D_9^+\Phi_{(B_2,)} \\
& +A_4^+B_2^+C_{13}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_4,B_2,C_{13},D_{10})} =$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_4, C_{13}, D_{10})} \\
& +A_4^+ C_{13}^+ D_{10}^+ \Phi_{(B_2,)} \\
& +A_4^+ B_2^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_2, C_{14}, D_9)} = \\
& +B_2^+ \Phi_{(A_4, C_{14}, D_9)} \\
& +A_4^+ C_{14}^+ D_9^+ \Phi_{(B_2,)} \\
& +A_4^+ B_2^+ C_{14}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_2, C_{14}, D_{10})} = \\
& +B_2^+ \Phi_{(A_4, C_{14}, D_{10})} \\
& +A_4^+ C_{14}^+ D_{10}^+ \Phi_{(B_2,)} \\
& +A_4^+ B_2^+ C_{14}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_3, C_1, D_5)} = \\
& +B_3^+ \Phi_{(A_4, C_1, D_5)} \\
& +C_1^+ \Phi_{(A_4, B_3, D_5)} \\
& +A_4^+ D_5^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_3^+ D_5^+ \Phi_{(C_1,)} \\
& +A_4^+ C_1^+ D_5^+ \Phi_{(B_3,)} \\
& +A_4^+ B_3^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_3, C_2, D_5)} = \\
& +B_3^+ \Phi_{(A_4, C_2, D_5)} \\
& +C_2^+ \Phi_{(A_4, B_3, D_5)} \\
& +A_4^+ D_5^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_3^+ D_5^+ \Phi_{(C_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_4^+ C_2^+ D_5^+ \Phi_{(B_3,)} \\
& +A_4^+ B_3^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_3, C_3, D_5)} = \\
& +B_3^+ \Phi_{(A_4, C_3, D_5)} \\
& +C_3^+ \Phi_{(A_4, B_3, D_5)} \\
& +A_4^+ D_5^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_3^+ D_5^+ \Phi_{(C_3,)} \\
& +A_4^+ C_3^+ D_5^+ \Phi_{(B_3,)} \\
& +A_4^+ B_3^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_3, C_5, D_1)} = \\
& +B_3^+ \Phi_{(A_4, C_5, D_1)} \\
& +D_1^+ \Phi_{(A_4, B_3, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_3^+ C_5^+ \Phi_{(D_1,)} \\
& +A_4^+ C_5^+ D_1^+ \Phi_{(B_3,)} \\
& +A_4^+ B_3^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_3, C_5, D_2)} = \\
& +B_3^+ \Phi_{(A_4, C_5, D_2)} \\
& +D_2^+ \Phi_{(A_4, B_3, C_5)} \\
& +A_4^+ C_5^+ \Phi_{(B_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_3^+ C_5^+ \Phi_{(D_2,)} \\
& +A_4^+ C_5^+ D_2^+ \Phi_{(B_3,)} \\
& +A_4^+ B_3^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_5, D_3)} = \\
&+ B_3^+ \Phi_{(A_4, C_5, D_3)} \\
&+ D_3^+ \Phi_{(A_4, B_3, C_5)} \\
&+ A_4^+ C_5^+ \Phi_{(B_3, D_3)} \\
&+ B_3^+ D_3^+ \Phi_{(A_4, C_5)} \\
&+ A_4^+ B_3^+ C_5^+ \Phi_{(D_3,)} \\
&+ A_4^+ C_5^+ D_3^+ \Phi_{(B_3,)} \\
&+ A_4^+ B_3^+ C_5^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_9, D_{13})} = \\
&+ B_3^+ \Phi_{(A_4, C_9, D_{13})} \\
&+ A_4^+ C_9^+ D_{13}^+ \Phi_{(B_3,)} \\
&+ A_4^+ B_3^+ C_9^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_9, D_{14})} = \\
&+ B_3^+ \Phi_{(A_4, C_9, D_{14})} \\
&+ A_4^+ C_9^+ D_{14}^+ \Phi_{(B_3,)} \\
&+ A_4^+ B_3^+ C_9^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_{10}, D_{13})} = \\
&+ B_3^+ \Phi_{(A_4, C_{10}, D_{13})} \\
&+ A_4^+ C_{10}^+ D_{13}^+ \Phi_{(B_3,)} \\
&+ A_4^+ B_3^+ C_{10}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_{10}, D_{14})} = \\
&+ B_3^+ \Phi_{(A_4, C_{10}, D_{14})} \\
&+ A_4^+ C_{10}^+ D_{14}^+ \Phi_{(B_3,)} \\
&+ A_4^+ B_3^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_{13}, D_9)} = \\
&+ B_3^+ \Phi_{(A_4, C_{13}, D_9)} \\
&+ A_4^+ C_{13}^+ D_9^+ \Phi_{(B_3,)} \\
&+ A_4^+ B_3^+ C_{13}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_{13}, D_{10})} = \\
&+ B_3^+ \Phi_{(A_4, C_{13}, D_{10})} \\
&+ A_4^+ C_{13}^+ D_{10}^+ \Phi_{(B_3,)} \\
&+ A_4^+ B_3^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_{14}, D_9)} = \\
&+ B_3^+ \Phi_{(A_4, C_{14}, D_9)} \\
&+ A_4^+ C_{14}^+ D_9^+ \Phi_{(B_3,)} \\
&+ A_4^+ B_3^+ C_{14}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_3, C_{14}, D_{10})} = \\
&+ B_3^+ \Phi_{(A_4, C_{14}, D_{10})} \\
&+ A_4^+ C_{14}^+ D_{10}^+ \Phi_{(B_3,)} \\
&+ A_4^+ B_3^+ C_{14}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_4, C_5, D_5)} = \\
&+ A_4^+ C_5^+ \Phi_{(B_4, D_5)} \\
&+ A_4^+ D_5^+ \Phi_{(B_4, C_5)} \\
&+ B_4^+ C_5^+ \Phi_{(A_4, D_5)} \\
&+ B_4^+ D_5^+ \Phi_{(A_4, C_5)} \\
&+ A_4^+ B_4^+ C_5^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_4, B_5, C_1, D_1)} =$$

$$\begin{aligned}
& +C_1^+ \Phi_{(A_4, B_5, D_1)} \\
& +D_1^+ \Phi_{(A_4, B_5, C_1)} \\
& +A_4^+ B_5^+ \Phi_{(C_1, D_1)} \\
& +C_1^+ D_1^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_1^+ \Phi_{(D_1,)} \\
& +A_4^+ B_5^+ D_1^+ \Phi_{(C_1,)} \\
& +A_4^+ B_5^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_1, D_2)} = \\
& +C_1^+ \Phi_{(A_4, B_5, D_2)} \\
& +D_2^+ \Phi_{(A_4, B_5, C_1)} \\
& +A_4^+ B_5^+ \Phi_{(C_1, D_2)} \\
& +C_1^+ D_2^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_1^+ \Phi_{(D_2,)} \\
& +A_4^+ B_5^+ D_2^+ \Phi_{(C_1,)} \\
& +A_4^+ B_5^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_1, D_3)} = \\
& +C_1^+ \Phi_{(A_4, B_5, D_3)} \\
& +D_3^+ \Phi_{(A_4, B_5, C_1)} \\
& +A_4^+ B_5^+ \Phi_{(C_1, D_3)} \\
& +C_1^+ D_3^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_1^+ \Phi_{(D_3,)} \\
& +A_4^+ B_5^+ D_3^+ \Phi_{(C_1,)} \\
& +A_4^+ B_5^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_2, D_1)} = \\
& +C_2^+ \Phi_{(A_4, B_5, D_1)} \\
& +D_1^+ \Phi_{(A_4, B_5, C_2)}
\end{aligned}$$

$$\begin{aligned}
& +A_4^+ B_5^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_2^+ \Phi_{(D_1,)} \\
& +A_4^+ B_5^+ D_1^+ \Phi_{(C_2,)} \\
& +A_4^+ B_5^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_4, B_5, D_2)} \\
& +D_2^+ \Phi_{(A_4, B_5, C_2)} \\
& +A_4^+ B_5^+ \Phi_{(C_2, D_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_2^+ \Phi_{(D_2,)} \\
& +A_4^+ B_5^+ D_2^+ \Phi_{(C_2,)} \\
& +A_4^+ B_5^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_4, B_5, D_3)} \\
& +D_3^+ \Phi_{(A_4, B_5, C_2)} \\
& +A_4^+ B_5^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_2^+ \Phi_{(D_3,)} \\
& +A_4^+ B_5^+ D_3^+ \Phi_{(C_2,)} \\
& +A_4^+ B_5^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_4, B_5, D_1)} \\
& +D_1^+ \Phi_{(A_4, B_5, C_3)} \\
& +A_4^+ B_5^+ \Phi_{(C_3, D_1)} \\
& +C_3^+ D_1^+ \Phi_{(A_4, B_5)}
\end{aligned}$$

$$\begin{aligned}
& +A_4^+ B_5^+ C_3^+ \Phi_{(D_1,)} \\
& +A_4^+ B_5^+ D_1^+ \Phi_{(C_3,)} \\
& +A_4^+ B_5^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_4, B_5, D_2)} \\
& +D_2^+ \Phi_{(A_4, B_5, C_3)} \\
& +A_4^+ B_5^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_3^+ \Phi_{(D_2,)} \\
& +A_4^+ B_5^+ D_2^+ \Phi_{(C_3,)} \\
& +A_4^+ B_5^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_4, B_5, D_3)} \\
& +D_3^+ \Phi_{(A_4, B_5, C_3)} \\
& +A_4^+ B_5^+ \Phi_{(C_3, D_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_3^+ \Phi_{(D_3,)} \\
& +A_4^+ B_5^+ D_3^+ \Phi_{(C_3,)} \\
& +A_4^+ B_5^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_4, D_5)} = \\
& +A_4^+ B_5^+ \Phi_{(C_4, D_5)} \\
& +A_4^+ D_5^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_5, D_4)} = \\
&+ A_4^+ B_5^+ \Phi_{(C_5, D_4)} \\
&+ A_4^+ C_5^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_4, C_5)} \\
&+ C_5^+ D_4^+ \Phi_{(A_4, B_5)} \\
&+ A_4^+ B_5^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_6, D_{15})} = \\
&+ A_4^+ B_5^+ \Phi_{(C_6, D_{15})} \\
&+ C_6^+ D_{15}^+ \Phi_{(A_4, B_5)} \\
&+ A_4^+ B_5^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_7, D_{13})} = \\
&+ A_4^+ B_5^+ \Phi_{(C_7, D_{13})} \\
&+ C_7^+ D_{13}^+ \Phi_{(A_4, B_5)} \\
&+ A_4^+ B_5^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_7, D_{14})} = \\
&+ A_4^+ B_5^+ \Phi_{(C_7, D_{14})} \\
&+ C_7^+ D_{14}^+ \Phi_{(A_4, B_5)} \\
&+ A_4^+ B_5^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_8, D_{13})} = \\
&+ A_4^+ B_5^+ \Phi_{(C_8, D_{13})} \\
&+ C_8^+ D_{13}^+ \Phi_{(A_4, B_5)} \\
&+ A_4^+ B_5^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_8, D_{14})} = \\
&+ A_4^+ B_5^+ \Phi_{(C_8, D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +C_8^+ D_{14}^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_9, D_{11})} = \\
& +A_4^+ B_5^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_9, D_{12})} = \\
& +A_4^+ B_5^+ \Phi_{(C_9, D_{12})} \\
& +C_9^+ D_{12}^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_{10}, D_{11})} = \\
& +A_4^+ B_5^+ \Phi_{(C_{10}, D_{11})} \\
& +C_{10}^+ D_{11}^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_{10}, D_{12})} = \\
& +A_4^+ B_5^+ \Phi_{(C_{10}, D_{12})} \\
& +C_{10}^+ D_{12}^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_5, C_{11}, D_9)} = \\
& +A_4^+ B_5^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_4, B_5)} \\
& +A_4^+ B_5^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_4, B_5, C_{11}, D_{10})} =$$

$$\begin{aligned}
& +A_4^+B_5^+\Phi_{(C_{11},D_{10})} \\
& +C_{11}^+D_{10}^+\Phi_{(A_4,B_5)} \\
& +A_4^+B_5^+C_{11}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_5,C_{12},D_9)} = \\
& +A_4^+B_5^+\Phi_{(C_{12},D_9)} \\
& +C_{12}^+D_9^+\Phi_{(A_4,B_5)} \\
& +A_4^+B_5^+C_{12}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_5,C_{12},D_{10})} = \\
& +A_4^+B_5^+\Phi_{(C_{12},D_{10})} \\
& +C_{12}^+D_{10}^+\Phi_{(A_4,B_5)} \\
& +A_4^+B_5^+C_{12}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_5,C_{13},D_7)} = \\
& +A_4^+B_5^+\Phi_{(C_{13},D_7)} \\
& +C_{13}^+D_7^+\Phi_{(A_4,B_5)} \\
& +A_4^+B_5^+C_{13}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_5,C_{13},D_8)} = \\
& +A_4^+B_5^+\Phi_{(C_{13},D_8)} \\
& +C_{13}^+D_8^+\Phi_{(A_4,B_5)} \\
& +A_4^+B_5^+C_{13}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4,B_5,C_{14},D_7)} = \\
& +A_4^+B_5^+\Phi_{(C_{14},D_7)} \\
& +C_{14}^+D_7^+\Phi_{(A_4,B_5)} \\
& +A_4^+B_5^+C_{14}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_{14}, D_8)} = \\
&+ A_4^+ B_5^+ \Phi_{(C_{14}, D_8)} \\
&+ C_{14}^+ D_8^+ \Phi_{(A_4, B_5)} \\
&+ A_4^+ B_5^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_5, C_{15}, D_6)} = \\
&+ A_4^+ B_5^+ \Phi_{(C_{15}, D_6)} \\
&+ C_{15}^+ D_6^+ \Phi_{(A_4, B_5)} \\
&+ A_4^+ B_5^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_6, C_5, D_{15})} = \\
&+ A_4^+ C_5^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_4, C_5)} \\
&+ A_4^+ B_6^+ C_5^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_6, C_{13}, D_{13})} = \\
&+ A_4^+ B_6^+ C_{13}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_6, C_{13}, D_{14})} = \\
&+ A_4^+ B_6^+ C_{13}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_6, C_{14}, D_{13})} = \\
&+ A_4^+ B_6^+ C_{14}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_6, C_{14}, D_{14})} = \\
&+ A_4^+ B_6^+ C_{14}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_6, C_{15}, D_5)} = \\
&+ A_4^+ D_5^+ \Phi_{(B_6, C_{15})}
\end{aligned}$$

$$\begin{aligned}
& +B_6^+ C_{15}^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_6^+ C_{15}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_7, C_5, D_{13})} = \\
& +A_4^+ C_5^+ \Phi_{(B_7, D_{13})} \\
& +B_7^+ D_{13}^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_7^+ C_5^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_7, C_5, D_{14})} = \\
& +A_4^+ C_5^+ \Phi_{(B_7, D_{14})} \\
& +B_7^+ D_{14}^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_7^+ C_5^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_7, C_{13}, D_5)} = \\
& +A_4^+ D_5^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_7^+ C_{13}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_7, C_{14}, D_5)} = \\
& +A_4^+ D_5^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_7^+ C_{14}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_8, C_5, D_{13})} = \\
& +A_4^+ C_5^+ \Phi_{(B_8, D_{13})} \\
& +B_8^+ D_{13}^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_8^+ C_5^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_4, B_8, C_5, D_{14})} =$$

$$\begin{aligned}
& +A_4^+ C_5^+ \Phi_{(B_8, D_{14})} \\
& +B_8^+ D_{14}^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_8^+ C_5^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_8, C_{13}, D_5)} = \\
& +A_4^+ D_5^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_8^+ C_{13}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_8, C_{14}, D_5)} = \\
& +A_4^+ D_5^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_8^+ C_{14}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_9, C_1, D_{13})} = \\
& +C_1^+ \Phi_{(A_4, B_9, D_{13})} \\
& +A_4^+ B_9^+ D_{13}^+ \Phi_{(C_1,)} \\
& +A_4^+ B_9^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_9, C_1, D_{14})} = \\
& +C_1^+ \Phi_{(A_4, B_9, D_{14})} \\
& +A_4^+ B_9^+ D_{14}^+ \Phi_{(C_1,)} \\
& +A_4^+ B_9^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_9, C_2, D_{13})} = \\
& +C_2^+ \Phi_{(A_4, B_9, D_{13})} \\
& +A_4^+ B_9^+ D_{13}^+ \Phi_{(C_2,)} \\
& +A_4^+ B_9^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_9, C_2, D_{14})} = \\
&+C_2^+ \Phi_{(A_4, B_9, D_{14})} \\
&+A_4^+ B_9^+ D_{14}^+ \Phi_{(C_2,)} \\
&+A_4^+ B_9^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_9, C_3, D_{13})} = \\
&+C_3^+ \Phi_{(A_4, B_9, D_{13})} \\
&+A_4^+ B_9^+ D_{13}^+ \Phi_{(C_3,)} \\
&+A_4^+ B_9^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_9, C_3, D_{14})} = \\
&+C_3^+ \Phi_{(A_4, B_9, D_{14})} \\
&+A_4^+ B_9^+ D_{14}^+ \Phi_{(C_3,)} \\
&+A_4^+ B_9^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_9, C_5, D_{11})} = \\
&+A_4^+ C_5^+ \Phi_{(B_9, D_{11})} \\
&+B_9^+ D_{11}^+ \Phi_{(A_4, C_5)} \\
&+A_4^+ B_9^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_9, C_5, D_{12})} = \\
&+A_4^+ C_5^+ \Phi_{(B_9, D_{12})} \\
&+B_9^+ D_{12}^+ \Phi_{(A_4, C_5)} \\
&+A_4^+ B_9^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_9, C_9, D_{15})} = \\
&+A_4^+ B_9^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_4, B_9, C_{10}, D_{15})} =$$

$$+A_4^+B_9^+C_{10}^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_4,B_9,C_{11},D_5)} =$$

$$+A_4^+D_5^+\Phi_{(B_9,C_{11})}$$

$$+B_9^+C_{11}^+\Phi_{(A_4,D_5)}$$

$$+A_4^+B_9^+C_{11}^+D_5^+\Phi_{()}$$

$$\Phi_{(A_4,B_9,C_{12},D_5)} =$$

$$+A_4^+D_5^+\Phi_{(B_9,C_{12})}$$

$$+B_9^+C_{12}^+\Phi_{(A_4,D_5)}$$

$$+A_4^+B_9^+C_{12}^+D_5^+\Phi_{()}$$

$$\Phi_{(A_4,B_9,C_{13},D_1)} =$$

$$+D_1^+\Phi_{(A_4,B_9,C_{13})}$$

$$+A_4^+B_9^+C_{13}^+\Phi_{(D_1,)}$$

$$+A_4^+B_9^+C_{13}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_4,B_9,C_{13},D_2)} =$$

$$+D_2^+\Phi_{(A_4,B_9,C_{13})}$$

$$+A_4^+B_9^+C_{13}^+\Phi_{(D_2,)}$$

$$+A_4^+B_9^+C_{13}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_4,B_9,C_{13},D_3)} =$$

$$+D_3^+\Phi_{(A_4,B_9,C_{13})}$$

$$+A_4^+B_9^+C_{13}^+\Phi_{(D_3,)}$$

$$+A_4^+B_9^+C_{13}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_4,B_9,C_{14},D_1)} =$$

$$+D_1^+\Phi_{(A_4,B_9,C_{14})}$$

$$\begin{aligned}
& +A_4^+ B_9^+ C_{14}^+ \Phi_{(D_1,)} \\
& +A_4^+ B_9^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_9, C_{14}, D_2)} = \\
& +D_2^+ \Phi_{(A_4, B_9, C_{14})} \\
& +A_4^+ B_9^+ C_{14}^+ \Phi_{(D_2,)} \\
& +A_4^+ B_9^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_9, C_{14}, D_3)} = \\
& +D_3^+ \Phi_{(A_4, B_9, C_{14})} \\
& +A_4^+ B_9^+ C_{14}^+ \Phi_{(D_3,)} \\
& +A_4^+ B_9^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_9, C_{15}, D_9)} = \\
& +A_4^+ B_9^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_9, C_{15}, D_{10})} = \\
& +A_4^+ B_9^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{10}, C_1, D_{13})} = \\
& +C_1^+ \Phi_{(A_4, B_{10}, D_{13})} \\
& +A_4^+ B_{10}^+ D_{13}^+ \Phi_{(C_1,)} \\
& +A_4^+ B_{10}^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{10}, C_1, D_{14})} = \\
& +C_1^+ \Phi_{(A_4, B_{10}, D_{14})} \\
& +A_4^+ B_{10}^+ D_{14}^+ \Phi_{(C_1,)} \\
& +A_4^+ B_{10}^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{10}, C_2, D_{13})} = \\
&+C_2^+ \Phi_{(A_4, B_{10}, D_{13})} \\
&+A_4^+ B_{10}^+ D_{13}^+ \Phi_{(C_2,)} \\
&+A_4^+ B_{10}^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{10}, C_2, D_{14})} = \\
&+C_2^+ \Phi_{(A_4, B_{10}, D_{14})} \\
&+A_4^+ B_{10}^+ D_{14}^+ \Phi_{(C_2,)} \\
&+A_4^+ B_{10}^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{10}, C_3, D_{13})} = \\
&+C_3^+ \Phi_{(A_4, B_{10}, D_{13})} \\
&+A_4^+ B_{10}^+ D_{13}^+ \Phi_{(C_3,)} \\
&+A_4^+ B_{10}^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{10}, C_3, D_{14})} = \\
&+C_3^+ \Phi_{(A_4, B_{10}, D_{14})} \\
&+A_4^+ B_{10}^+ D_{14}^+ \Phi_{(C_3,)} \\
&+A_4^+ B_{10}^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{10}, C_5, D_{11})} = \\
&+A_4^+ C_5^+ \Phi_{(B_{10}, D_{11})} \\
&+B_{10}^+ D_{11}^+ \Phi_{(A_4, C_5)} \\
&+A_4^+ B_{10}^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{10}, C_5, D_{12})} = \\
&+A_4^+ C_5^+ \Phi_{(B_{10}, D_{12})} \\
&+B_{10}^+ D_{12}^+ \Phi_{(A_4, C_5)} \\
&+A_4^+ B_{10}^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{10}, C_9, D_{15})} = \\ + A_4^+ B_{10}^+ C_9^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{10}, C_{10}, D_{15})} = \\ + A_4^+ B_{10}^+ C_{10}^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{10}, C_{11}, D_5)} = \\ + A_4^+ D_5^+ \Phi_{(B_{10}, C_{11})} \\ + B_{10}^+ C_{11}^+ \Phi_{(A_4, D_5)} \\ + A_4^+ B_{10}^+ C_{11}^+ D_5^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{10}, C_{12}, D_5)} = \\ + A_4^+ D_5^+ \Phi_{(B_{10}, C_{12})} \\ + B_{10}^+ C_{12}^+ \Phi_{(A_4, D_5)} \\ + A_4^+ B_{10}^+ C_{12}^+ D_5^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{10}, C_{13}, D_1)} = \\ + D_1^+ \Phi_{(A_4, B_{10}, C_{13})} \\ + A_4^+ B_{10}^+ C_{13}^+ \Phi_{(D_1,)} \\ + A_4^+ B_{10}^+ C_{13}^+ D_1^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{10}, C_{13}, D_2)} = \\ + D_2^+ \Phi_{(A_4, B_{10}, C_{13})} \\ + A_4^+ B_{10}^+ C_{13}^+ \Phi_{(D_2,)} \\ + A_4^+ B_{10}^+ C_{13}^+ D_2^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{10}, C_{13}, D_3)} = \\ + D_3^+ \Phi_{(A_4, B_{10}, C_{13})}\end{aligned}$$

$$\begin{aligned}
& +A_4^+ B_{10}^+ C_{13}^+ \Phi_{(D_3,)} \\
& +A_4^+ B_{10}^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{10}, C_{14}, D_1)} = \\
& +D_1^+ \Phi_{(A_4, B_{10}, C_{14})} \\
& +A_4^+ B_{10}^+ C_{14}^+ \Phi_{(D_1,)} \\
& +A_4^+ B_{10}^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{10}, C_{14}, D_2)} = \\
& +D_2^+ \Phi_{(A_4, B_{10}, C_{14})} \\
& +A_4^+ B_{10}^+ C_{14}^+ \Phi_{(D_2,)} \\
& +A_4^+ B_{10}^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{10}, C_{14}, D_3)} = \\
& +D_3^+ \Phi_{(A_4, B_{10}, C_{14})} \\
& +A_4^+ B_{10}^+ C_{14}^+ \Phi_{(D_3,)} \\
& +A_4^+ B_{10}^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{10}, C_{15}, D_9)} = \\
& +A_4^+ B_{10}^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{10}, C_{15}, D_{10})} = \\
& +A_4^+ B_{10}^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{11}, C_5, D_9)} = \\
& +A_4^+ C_5^+ \Phi_{(B_{11}, D_9)} \\
& +B_{11}^+ D_9^+ \Phi_{(A_4, C_5)} \\
& +A_4^+ B_{11}^+ C_5^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{11}, C_5, D_{10})} = \\
&+ A_4^+ C_5^+ \Phi_{(B_{11}, D_{10})} \\
&+ B_{11}^+ D_{10}^+ \Phi_{(A_4, C_5)} \\
&+ A_4^+ B_{11}^+ C_5^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{11}, C_9, D_5)} = \\
&+ A_4^+ D_5^+ \Phi_{(B_{11}, C_9)} \\
&+ B_{11}^+ C_9^+ \Phi_{(A_4, D_5)} \\
&+ A_4^+ B_{11}^+ C_9^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{11}, C_{10}, D_5)} = \\
&+ A_4^+ D_5^+ \Phi_{(B_{11}, C_{10})} \\
&+ B_{11}^+ C_{10}^+ \Phi_{(A_4, D_5)} \\
&+ A_4^+ B_{11}^+ C_{10}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{12}, C_5, D_9)} = \\
&+ A_4^+ C_5^+ \Phi_{(B_{12}, D_9)} \\
&+ B_{12}^+ D_9^+ \Phi_{(A_4, C_5)} \\
&+ A_4^+ B_{12}^+ C_5^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{12}, C_5, D_{10})} = \\
&+ A_4^+ C_5^+ \Phi_{(B_{12}, D_{10})} \\
&+ B_{12}^+ D_{10}^+ \Phi_{(A_4, C_5)} \\
&+ A_4^+ B_{12}^+ C_5^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{12}, C_9, D_5)} = \\
&+ A_4^+ D_5^+ \Phi_{(B_{12}, C_9)} \\
&+ B_{12}^+ C_9^+ \Phi_{(A_4, D_5)} \\
&+ A_4^+ B_{12}^+ C_9^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{12}, C_{10}, D_5)} = & \\
& + A_4^+ D_5^+ \Phi_{(B_{12}, C_{10})} \\
& + B_{12}^+ C_{10}^+ \Phi_{(A_4, D_5)} \\
& + A_4^+ B_{12}^+ C_{10}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{13}, C_1, D_9)} = & \\
& + C_1^+ \Phi_{(A_4, B_{13}, D_9)} \\
& + A_4^+ B_{13}^+ D_9^+ \Phi_{(C_1,)} \\
& + A_4^+ B_{13}^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{13}, C_1, D_{10})} = & \\
& + C_1^+ \Phi_{(A_4, B_{13}, D_{10})} \\
& + A_4^+ B_{13}^+ D_{10}^+ \Phi_{(C_1,)} \\
& + A_4^+ B_{13}^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{13}, C_2, D_9)} = & \\
& + C_2^+ \Phi_{(A_4, B_{13}, D_9)} \\
& + A_4^+ B_{13}^+ D_9^+ \Phi_{(C_2,)} \\
& + A_4^+ B_{13}^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{13}, C_2, D_{10})} = & \\
& + C_2^+ \Phi_{(A_4, B_{13}, D_{10})} \\
& + A_4^+ B_{13}^+ D_{10}^+ \Phi_{(C_2,)} \\
& + A_4^+ B_{13}^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_4, B_{13}, C_3, D_9)} = & \\
& + C_3^+ \Phi_{(A_4, B_{13}, D_9)} \\
& + A_4^+ B_{13}^+ D_9^+ \Phi_{(C_3,)}
\end{aligned}$$

$$+A_4^+ B_{13}^+ C_3^+ D_9^+ \Phi_{()}$$

$$\Phi_{(A_4, B_{13}, C_3, D_{10})} =$$

$$+C_3^+ \Phi_{(A_4, B_{13}, D_{10})}$$

$$+A_4^+ B_{13}^+ D_{10}^+ \Phi_{(C_3,)}$$

$$+A_4^+ B_{13}^+ C_3^+ D_{10}^+ \Phi_{()}$$

$$\Phi_{(A_4, B_{13}, C_5, D_7)} =$$

$$+A_4^+ C_5^+ \Phi_{(B_{13}, D_7)}$$

$$+B_{13}^+ D_7^+ \Phi_{(A_4, C_5)}$$

$$+A_4^+ B_{13}^+ C_5^+ D_7^+ \Phi_{()}$$

$$\Phi_{(A_4, B_{13}, C_5, D_8)} =$$

$$+A_4^+ C_5^+ \Phi_{(B_{13}, D_8)}$$

$$+B_{13}^+ D_8^+ \Phi_{(A_4, C_5)}$$

$$+A_4^+ B_{13}^+ C_5^+ D_8^+ \Phi_{()}$$

$$\Phi_{(A_4, B_{13}, C_6, D_{13})} =$$

$$+A_4^+ B_{13}^+ C_6^+ D_{13}^+ \Phi_{()}$$

$$\Phi_{(A_4, B_{13}, C_6, D_{14})} =$$

$$+A_4^+ B_{13}^+ C_6^+ D_{14}^+ \Phi_{()}$$

$$\Phi_{(A_4, B_{13}, C_7, D_5)} =$$

$$+A_4^+ D_5^+ \Phi_{(B_{13}, C_7)}$$

$$+B_{13}^+ C_7^+ \Phi_{(A_4, D_5)}$$

$$+A_4^+ B_{13}^+ C_7^+ D_5^+ \Phi_{()}$$

$$\Phi_{(A_4, B_{13}, C_8, D_5)} =$$

$$\begin{aligned}
& +A_4^+ D_5^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_{13}^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{13}, C_9, D_1)} = \\
& +D_1^+ \Phi_{(A_4, B_{13}, C_9)} \\
& +A_4^+ B_{13}^+ C_9^+ \Phi_{(D_1,)} \\
& +A_4^+ B_{13}^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{13}, C_9, D_2)} = \\
& +D_2^+ \Phi_{(A_4, B_{13}, C_9)} \\
& +A_4^+ B_{13}^+ C_9^+ \Phi_{(D_2,)} \\
& +A_4^+ B_{13}^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{13}, C_9, D_3)} = \\
& +D_3^+ \Phi_{(A_4, B_{13}, C_9)} \\
& +A_4^+ B_{13}^+ C_9^+ \Phi_{(D_3,)} \\
& +A_4^+ B_{13}^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{13}, C_{10}, D_1)} = \\
& +D_1^+ \Phi_{(A_4, B_{13}, C_{10})} \\
& +A_4^+ B_{13}^+ C_{10}^+ \Phi_{(D_1,)} \\
& +A_4^+ B_{13}^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{13}, C_{10}, D_2)} = \\
& +D_2^+ \Phi_{(A_4, B_{13}, C_{10})} \\
& +A_4^+ B_{13}^+ C_{10}^+ \Phi_{(D_2,)} \\
& +A_4^+ B_{13}^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{13}, C_{10}, D_3)} = \\
&+ D_3^+ \Phi_{(A_4, B_{13}, C_{10})} \\
&+ A_4^+ B_{13}^+ C_{10}^+ \Phi_{(D_3,)} \\
&+ A_4^+ B_{13}^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{13}, C_{13}, D_6)} = \\
&+ A_4^+ B_{13}^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{13}, C_{14}, D_6)} = \\
&+ A_4^+ B_{13}^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{14}, C_1, D_9)} = \\
&+ C_1^+ \Phi_{(A_4, B_{14}, D_9)} \\
&+ A_4^+ B_{14}^+ D_9^+ \Phi_{(C_1,)} \\
&+ A_4^+ B_{14}^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{14}, C_1, D_{10})} = \\
&+ C_1^+ \Phi_{(A_4, B_{14}, D_{10})} \\
&+ A_4^+ B_{14}^+ D_{10}^+ \Phi_{(C_1,)} \\
&+ A_4^+ B_{14}^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{14}, C_2, D_9)} = \\
&+ C_2^+ \Phi_{(A_4, B_{14}, D_9)} \\
&+ A_4^+ B_{14}^+ D_9^+ \Phi_{(C_2,)} \\
&+ A_4^+ B_{14}^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{14}, C_2, D_{10})} = \\
&+ C_2^+ \Phi_{(A_4, B_{14}, D_{10})} \\
&+ A_4^+ B_{14}^+ D_{10}^+ \Phi_{(C_2,)}
\end{aligned}$$

$$+A_4^+ B_{14}^+ C_2^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_4, B_{14}, C_3, D_9)} =$$

$$+C_3^+ \Phi_{(A_4, B_{14}, D_9)}$$

$$+A_4^+ B_{14}^+ D_9^+ \Phi_{(C_3,)}$$

$$+A_4^+ B_{14}^+ C_3^+ D_9^+ \Phi_{()} \\$$

$$\Phi_{(A_4, B_{14}, C_3, D_{10})} =$$

$$+C_3^+ \Phi_{(A_4, B_{14}, D_{10})}$$

$$+A_4^+ B_{14}^+ D_{10}^+ \Phi_{(C_3,)}$$

$$+A_4^+ B_{14}^+ C_3^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_4, B_{14}, C_5, D_7)} =$$

$$+A_4^+ C_5^+ \Phi_{(B_{14}, D_7)}$$

$$+B_{14}^+ D_7^+ \Phi_{(A_4, C_5)}$$

$$+A_4^+ B_{14}^+ C_5^+ D_7^+ \Phi_{()} \\$$

$$\Phi_{(A_4, B_{14}, C_5, D_8)} =$$

$$+A_4^+ C_5^+ \Phi_{(B_{14}, D_8)}$$

$$+B_{14}^+ D_8^+ \Phi_{(A_4, C_5)}$$

$$+A_4^+ B_{14}^+ C_5^+ D_8^+ \Phi_{()} \\$$

$$\Phi_{(A_4, B_{14}, C_6, D_{13})} =$$

$$+A_4^+ B_{14}^+ C_6^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_4, B_{14}, C_6, D_{14})} =$$

$$+A_4^+ B_{14}^+ C_6^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_4, B_{14}, C_7, D_5)} =$$

$$\begin{aligned}
& +A_4^+ D_5^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_{14}^+ C_7^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{14}, C_8, D_5)} = \\
& +A_4^+ D_5^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_4, D_5)} \\
& +A_4^+ B_{14}^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{14}, C_9, D_1)} = \\
& +D_1^+ \Phi_{(A_4, B_{14}, C_9)} \\
& +A_4^+ B_{14}^+ C_9^+ \Phi_{(D_1,)} \\
& +A_4^+ B_{14}^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{14}, C_9, D_2)} = \\
& +D_2^+ \Phi_{(A_4, B_{14}, C_9)} \\
& +A_4^+ B_{14}^+ C_9^+ \Phi_{(D_2,)} \\
& +A_4^+ B_{14}^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{14}, C_9, D_3)} = \\
& +D_3^+ \Phi_{(A_4, B_{14}, C_9)} \\
& +A_4^+ B_{14}^+ C_9^+ \Phi_{(D_3,)} \\
& +A_4^+ B_{14}^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_4, B_{14}, C_{10}, D_1)} = \\
& +D_1^+ \Phi_{(A_4, B_{14}, C_{10})} \\
& +A_4^+ B_{14}^+ C_{10}^+ \Phi_{(D_1,)} \\
& +A_4^+ B_{14}^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{14}, C_{10}, D_2)} = \\
&+ D_2^+ \Phi_{(A_4, B_{14}, C_{10})} \\
&+ A_4^+ B_{14}^+ C_{10}^+ \Phi_{(D_2,)} \\
&+ A_4^+ B_{14}^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{14}, C_{10}, D_3)} = \\
&+ D_3^+ \Phi_{(A_4, B_{14}, C_{10})} \\
&+ A_4^+ B_{14}^+ C_{10}^+ \Phi_{(D_3,)} \\
&+ A_4^+ B_{14}^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{14}, C_{13}, D_6)} = \\
&+ A_4^+ B_{14}^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{14}, C_{14}, D_6)} = \\
&+ A_4^+ B_{14}^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{15}, C_5, D_6)} = \\
&+ A_4^+ C_5^+ \Phi_{(B_{15}, D_6)} \\
&+ B_{15}^+ D_6^+ \Phi_{(A_4, C_5)} \\
&+ A_4^+ B_{15}^+ C_5^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{15}, C_6, D_5)} = \\
&+ A_4^+ D_5^+ \Phi_{(B_{15}, C_6)} \\
&+ B_{15}^+ C_6^+ \Phi_{(A_4, D_5)} \\
&+ A_4^+ B_{15}^+ C_6^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_4, B_{15}, C_9, D_9)} = \\
&+ A_4^+ B_{15}^+ C_9^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{15}, C_9, D_{10})} = \\ + A_4^+ B_{15}^+ C_9^+ D_{10}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{15}, C_{10}, D_9)} = \\ + A_4^+ B_{15}^+ C_{10}^+ D_9^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_4, B_{15}, C_{10}, D_{10})} = \\ + A_4^+ B_{15}^+ C_{10}^+ D_{10}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_1, C_1, D_4)} = \\ + B_1^+ \Phi_{(A_5, C_1, D_4)} \\ + C_1^+ \Phi_{(A_5, B_1, D_4)} \\ + A_5^+ D_4^+ \Phi_{(B_1, C_1)} \\ + B_1^+ C_1^+ \Phi_{(A_5, D_4)} \\ + A_5^+ B_1^+ D_4^+ \Phi_{(C_1,)} \\ + A_5^+ C_1^+ D_4^+ \Phi_{(B_1,)} \\ + A_5^+ B_1^+ C_1^+ D_4^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_1, C_2, D_4)} = \\ + B_1^+ \Phi_{(A_5, C_2, D_4)} \\ + C_2^+ \Phi_{(A_5, B_1, D_4)} \\ + A_5^+ D_4^+ \Phi_{(B_1, C_2)} \\ + B_1^+ C_2^+ \Phi_{(A_5, D_4)} \\ + A_5^+ B_1^+ D_4^+ \Phi_{(C_2,)} \\ + A_5^+ C_2^+ D_4^+ \Phi_{(B_1,)} \\ + A_5^+ B_1^+ C_2^+ D_4^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_1, C_3, D_4)} = \\ + B_1^+ \Phi_{(A_5, C_3, D_4)}\end{aligned}$$

$$\begin{aligned}
& +C_3^+ \Phi_{(A_5, B_1, D_4)} \\
& +A_5^+ D_4^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_1^+ D_4^+ \Phi_{(C_3,)} \\
& +A_5^+ C_3^+ D_4^+ \Phi_{(B_1,)} \\
& +A_5^+ B_1^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_1, C_4, D_1)} = \\
& +B_1^+ \Phi_{(A_5, C_4, D_1)} \\
& +D_1^+ \Phi_{(A_5, B_1, C_4)} \\
& +A_5^+ C_4^+ \Phi_{(B_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_1^+ C_4^+ \Phi_{(D_1,)} \\
& +A_5^+ C_4^+ D_1^+ \Phi_{(B_1,)} \\
& +A_5^+ B_1^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_1, C_4, D_2)} = \\
& +B_1^+ \Phi_{(A_5, C_4, D_2)} \\
& +D_2^+ \Phi_{(A_5, B_1, C_4)} \\
& +A_5^+ C_4^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_1^+ C_4^+ \Phi_{(D_2,)} \\
& +A_5^+ C_4^+ D_2^+ \Phi_{(B_1,)} \\
& +A_5^+ B_1^+ C_4^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_1, C_4, D_3)} = \\
& +B_1^+ \Phi_{(A_5, C_4, D_3)} \\
& +D_3^+ \Phi_{(A_5, B_1, C_4)} \\
& +A_5^+ C_4^+ \Phi_{(B_1, D_3)}
\end{aligned}$$

$$+B_1^+ D_3^+ \Phi_{(A_5, C_4)}$$

$$+A_5^+ B_1^+ C_4^+ \Phi_{(D_3,)}$$

$$+A_5^+ C_4^+ D_3^+ \Phi_{(B_1,)}$$

$$+A_5^+ B_1^+ C_4^+ D_3^+ \Phi_{()}$$

$$\Phi_{(A_5, B_1, C_7, D_{11})} =$$

$$+B_1^+ \Phi_{(A_5, C_7, D_{11})}$$

$$+A_5^+ C_7^+ D_{11}^+ \Phi_{(B_1,)}$$

$$+A_5^+ B_1^+ C_7^+ D_{11}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_1, C_7, D_{12})} =$$

$$+B_1^+ \Phi_{(A_5, C_7, D_{12})}$$

$$+A_5^+ C_7^+ D_{12}^+ \Phi_{(B_1,)}$$

$$+A_5^+ B_1^+ C_7^+ D_{12}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_1, C_8, D_{11})} =$$

$$+B_1^+ \Phi_{(A_5, C_8, D_{11})}$$

$$+A_5^+ C_8^+ D_{11}^+ \Phi_{(B_1,)}$$

$$+A_5^+ B_1^+ C_8^+ D_{11}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_1, C_8, D_{12})} =$$

$$+B_1^+ \Phi_{(A_5, C_8, D_{12})}$$

$$+A_5^+ C_8^+ D_{12}^+ \Phi_{(B_1,)}$$

$$+A_5^+ B_1^+ C_8^+ D_{12}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_1, C_{11}, D_7)} =$$

$$+B_1^+ \Phi_{(A_5, C_{11}, D_7)}$$

$$+A_5^+ C_{11}^+ D_7^+ \Phi_{(B_1,)}$$

$$+A_5^+ B_1^+ C_{11}^+ D_7^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_5, B_1, C_{11}, D_8)} = \\
&+ B_1^+ \Phi_{(A_5, C_{11}, D_8)} \\
&+ A_5^+ C_{11}^+ D_8^+ \Phi_{(B_1,)} \\
&+ A_5^+ B_1^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_1, C_{12}, D_7)} = \\
&+ B_1^+ \Phi_{(A_5, C_{12}, D_7)} \\
&+ A_5^+ C_{12}^+ D_7^+ \Phi_{(B_1,)} \\
&+ A_5^+ B_1^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_1, C_{12}, D_8)} = \\
&+ B_1^+ \Phi_{(A_5, C_{12}, D_8)} \\
&+ A_5^+ C_{12}^+ D_8^+ \Phi_{(B_1,)} \\
&+ A_5^+ B_1^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_2, C_1, D_4)} = \\
&+ B_2^+ \Phi_{(A_5, C_1, D_4)} \\
&+ C_1^+ \Phi_{(A_5, B_2, D_4)} \\
&+ A_5^+ D_4^+ \Phi_{(B_2, C_1)} \\
&+ B_2^+ C_1^+ \Phi_{(A_5, D_4)} \\
&+ A_5^+ B_2^+ D_4^+ \Phi_{(C_1,)} \\
&+ A_5^+ C_1^+ D_4^+ \Phi_{(B_2,)} \\
&+ A_5^+ B_2^+ C_1^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_2, C_2, D_4)} = \\
&+ B_2^+ \Phi_{(A_5, C_2, D_4)} \\
&+ C_2^+ \Phi_{(A_5, B_2, D_4)} \\
&+ A_5^+ D_4^+ \Phi_{(B_2, C_2)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ C_2^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_2^+ D_4^+ \Phi_{(C_2,)} \\
& +A_5^+ C_2^+ D_4^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_2, C_3, D_4)} = \\
& +B_2^+ \Phi_{(A_5, C_3, D_4)} \\
& +C_3^+ \Phi_{(A_5, B_2, D_4)} \\
& +A_5^+ D_4^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_2^+ D_4^+ \Phi_{(C_3,)} \\
& +A_5^+ C_3^+ D_4^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_2, C_4, D_1)} = \\
& +B_2^+ \Phi_{(A_5, C_4, D_1)} \\
& +D_1^+ \Phi_{(A_5, B_2, C_4)} \\
& +A_5^+ C_4^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_2^+ C_4^+ \Phi_{(D_1,)} \\
& +A_5^+ C_4^+ D_1^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_2, C_4, D_2)} = \\
& +B_2^+ \Phi_{(A_5, C_4, D_2)} \\
& +D_2^+ \Phi_{(A_5, B_2, C_4)} \\
& +A_5^+ C_4^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_2^+ C_4^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_5^+ C_4^+ D_2^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_4^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_2, C_4, D_3)} = \\
& +B_2^+ \Phi_{(A_5, C_4, D_3)} \\
& +D_3^+ \Phi_{(A_5, B_2, C_4)} \\
& +A_5^+ C_4^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_2^+ C_4^+ \Phi_{(D_3,)} \\
& +A_5^+ C_4^+ D_3^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_4^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_2, C_7, D_{11})} = \\
& +B_2^+ \Phi_{(A_5, C_7, D_{11})} \\
& +A_5^+ C_7^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_7^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_2, C_7, D_{12})} = \\
& +B_2^+ \Phi_{(A_5, C_7, D_{12})} \\
& +A_5^+ C_7^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_7^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_2, C_8, D_{11})} = \\
& +B_2^+ \Phi_{(A_5, C_8, D_{11})} \\
& +A_5^+ C_8^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_8^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_2, C_8, D_{12})} = \\
& +B_2^+ \Phi_{(A_5, C_8, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +A_5^+ C_8^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_8^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_2, C_{11}, D_7)} = \\
& +B_2^+ \Phi_{(A_5, C_{11}, D_7)} \\
& +A_5^+ C_{11}^+ D_7^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_2, C_{11}, D_8)} = \\
& +B_2^+ \Phi_{(A_5, C_{11}, D_8)} \\
& +A_5^+ C_{11}^+ D_8^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_2, C_{12}, D_7)} = \\
& +B_2^+ \Phi_{(A_5, C_{12}, D_7)} \\
& +A_5^+ C_{12}^+ D_7^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_2, C_{12}, D_8)} = \\
& +B_2^+ \Phi_{(A_5, C_{12}, D_8)} \\
& +A_5^+ C_{12}^+ D_8^+ \Phi_{(B_2,)} \\
& +A_5^+ B_2^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_3, C_1, D_4)} = \\
& +B_3^+ \Phi_{(A_5, C_1, D_4)} \\
& +C_1^+ \Phi_{(A_5, B_3, D_4)} \\
& +A_5^+ D_4^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_3^+ D_4^+ \Phi_{(C_1,)}
\end{aligned}$$

$$\begin{aligned}
& +A_5^+ C_1^+ D_4^+ \Phi_{(B_3,)} \\
& +A_5^+ B_3^+ C_1^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_3, C_2, D_4)} = & \\
& +B_3^+ \Phi_{(A_5, C_2, D_4)} \\
& +C_2^+ \Phi_{(A_5, B_3, D_4)} \\
& +A_5^+ D_4^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_3^+ D_4^+ \Phi_{(C_2,)} \\
& +A_5^+ C_2^+ D_4^+ \Phi_{(B_3,)} \\
& +A_5^+ B_3^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_3, C_3, D_4)} = & \\
& +B_3^+ \Phi_{(A_5, C_3, D_4)} \\
& +C_3^+ \Phi_{(A_5, B_3, D_4)} \\
& +A_5^+ D_4^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_3^+ D_4^+ \Phi_{(C_3,)} \\
& +A_5^+ C_3^+ D_4^+ \Phi_{(B_3,)} \\
& +A_5^+ B_3^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_3, C_4, D_1)} = & \\
& +B_3^+ \Phi_{(A_5, C_4, D_1)} \\
& +D_1^+ \Phi_{(A_5, B_3, C_4)} \\
& +A_5^+ C_4^+ \Phi_{(B_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_3^+ C_4^+ \Phi_{(D_1,)} \\
& +A_5^+ C_4^+ D_1^+ \Phi_{(B_3,)} \\
& +A_5^+ B_3^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_4, D_2)} = \\
&+B_3^+ \Phi_{(A_5, C_4, D_2)} \\
&+D_2^+ \Phi_{(A_5, B_3, C_4)} \\
&+A_5^+ C_4^+ \Phi_{(B_3, D_2)} \\
&+B_3^+ D_2^+ \Phi_{(A_5, C_4)} \\
&+A_5^+ B_3^+ C_4^+ \Phi_{(D_2,)} \\
&+A_5^+ C_4^+ D_2^+ \Phi_{(B_3,)} \\
&+A_5^+ B_3^+ C_4^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_4, D_3)} = \\
&+B_3^+ \Phi_{(A_5, C_4, D_3)} \\
&+D_3^+ \Phi_{(A_5, B_3, C_4)} \\
&+A_5^+ C_4^+ \Phi_{(B_3, D_3)} \\
&+B_3^+ D_3^+ \Phi_{(A_5, C_4)} \\
&+A_5^+ B_3^+ C_4^+ \Phi_{(D_3,)} \\
&+A_5^+ C_4^+ D_3^+ \Phi_{(B_3,)} \\
&+A_5^+ B_3^+ C_4^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_7, D_{11})} = \\
&+B_3^+ \Phi_{(A_5, C_7, D_{11})} \\
&+A_5^+ C_7^+ D_{11}^+ \Phi_{(B_3,)} \\
&+A_5^+ B_3^+ C_7^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_7, D_{12})} = \\
&+B_3^+ \Phi_{(A_5, C_7, D_{12})} \\
&+A_5^+ C_7^+ D_{12}^+ \Phi_{(B_3,)} \\
&+A_5^+ B_3^+ C_7^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_8, D_{11})} = \\
&+ B_3^+ \Phi_{(A_5, C_8, D_{11})} \\
&+ A_5^+ C_8^+ D_{11}^+ \Phi_{(B_3,)} \\
&+ A_5^+ B_3^+ C_8^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_8, D_{12})} = \\
&+ B_3^+ \Phi_{(A_5, C_8, D_{12})} \\
&+ A_5^+ C_8^+ D_{12}^+ \Phi_{(B_3,)} \\
&+ A_5^+ B_3^+ C_8^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_{11}, D_7)} = \\
&+ B_3^+ \Phi_{(A_5, C_{11}, D_7)} \\
&+ A_5^+ C_{11}^+ D_7^+ \Phi_{(B_3,)} \\
&+ A_5^+ B_3^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_{11}, D_8)} = \\
&+ B_3^+ \Phi_{(A_5, C_{11}, D_8)} \\
&+ A_5^+ C_{11}^+ D_8^+ \Phi_{(B_3,)} \\
&+ A_5^+ B_3^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_{12}, D_7)} = \\
&+ B_3^+ \Phi_{(A_5, C_{12}, D_7)} \\
&+ A_5^+ C_{12}^+ D_7^+ \Phi_{(B_3,)} \\
&+ A_5^+ B_3^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_3, C_{12}, D_8)} = \\
&+ B_3^+ \Phi_{(A_5, C_{12}, D_8)} \\
&+ A_5^+ C_{12}^+ D_8^+ \Phi_{(B_3,)} \\
&+ A_5^+ B_3^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_1, D_1)} = \\
&+C_1^+ \Phi_{(A_5, B_4, D_1)} \\
&+D_1^+ \Phi_{(A_5, B_4, C_1)} \\
&+A_5^+ B_4^+ \Phi_{(C_1, D_1)} \\
&+C_1^+ D_1^+ \Phi_{(A_5, B_4)} \\
&+A_5^+ B_4^+ C_1^+ \Phi_{(D_1,)} \\
&+A_5^+ B_4^+ D_1^+ \Phi_{(C_1,)} \\
&+A_5^+ B_4^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_1, D_2)} = \\
&+C_1^+ \Phi_{(A_5, B_4, D_2)} \\
&+D_2^+ \Phi_{(A_5, B_4, C_1)} \\
&+A_5^+ B_4^+ \Phi_{(C_1, D_2)} \\
&+C_1^+ D_2^+ \Phi_{(A_5, B_4)} \\
&+A_5^+ B_4^+ C_1^+ \Phi_{(D_2,)} \\
&+A_5^+ B_4^+ D_2^+ \Phi_{(C_1,)} \\
&+A_5^+ B_4^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_1, D_3)} = \\
&+C_1^+ \Phi_{(A_5, B_4, D_3)} \\
&+D_3^+ \Phi_{(A_5, B_4, C_1)} \\
&+A_5^+ B_4^+ \Phi_{(C_1, D_3)} \\
&+C_1^+ D_3^+ \Phi_{(A_5, B_4)} \\
&+A_5^+ B_4^+ C_1^+ \Phi_{(D_3,)} \\
&+A_5^+ B_4^+ D_3^+ \Phi_{(C_1,)} \\
&+A_5^+ B_4^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_5, B_4, C_2, D_1)} =$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_5, B_4, D_1)} \\
& +D_1^+ \Phi_{(A_5, B_4, C_2)} \\
& +A_5^+ B_4^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_5, B_4)} \\
& +A_5^+ B_4^+ C_2^+ \Phi_{(D_1,)} \\
& +A_5^+ B_4^+ D_1^+ \Phi_{(C_2,)} \\
& +A_5^+ B_4^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_4, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_5, B_4, D_2)} \\
& +D_2^+ \Phi_{(A_5, B_4, C_2)} \\
& +A_5^+ B_4^+ \Phi_{(C_2, D_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_5, B_4)} \\
& +A_5^+ B_4^+ C_2^+ \Phi_{(D_2,)} \\
& +A_5^+ B_4^+ D_2^+ \Phi_{(C_2,)} \\
& +A_5^+ B_4^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_4, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_5, B_4, D_3)} \\
& +D_3^+ \Phi_{(A_5, B_4, C_2)} \\
& +A_5^+ B_4^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_5, B_4)} \\
& +A_5^+ B_4^+ C_2^+ \Phi_{(D_3,)} \\
& +A_5^+ B_4^+ D_3^+ \Phi_{(C_2,)} \\
& +A_5^+ B_4^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_4, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_5, B_4, D_1)} \\
& +D_1^+ \Phi_{(A_5, B_4, C_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_5^+ B_4^+ \Phi_{(C_3, D_1)} \\
& +C_3^+ D_1^+ \Phi_{(A_5, B_4)} \\
& +A_5^+ B_4^+ C_3^+ \Phi_{(D_1,)} \\
& +A_5^+ B_4^+ D_1^+ \Phi_{(C_3,)} \\
& +A_5^+ B_4^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_4, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_5, B_4, D_2)} \\
& +D_2^+ \Phi_{(A_5, B_4, C_3)} \\
& +A_5^+ B_4^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_5, B_4)} \\
& +A_5^+ B_4^+ C_3^+ \Phi_{(D_2,)} \\
& +A_5^+ B_4^+ D_2^+ \Phi_{(C_3,)} \\
& +A_5^+ B_4^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_4, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_5, B_4, D_3)} \\
& +D_3^+ \Phi_{(A_5, B_4, C_3)} \\
& +A_5^+ B_4^+ \Phi_{(C_3, D_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_5, B_4)} \\
& +A_5^+ B_4^+ C_3^+ \Phi_{(D_3,)} \\
& +A_5^+ B_4^+ D_3^+ \Phi_{(C_3,)} \\
& +A_5^+ B_4^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_4, C_4, D_5)} = \\
& +A_5^+ B_4^+ \Phi_{(C_4, D_5)} \\
& +A_5^+ C_4^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_5, C_4)} \\
& +C_4^+ D_5^+ \Phi_{(A_5, B_4)}
\end{aligned}$$

$$+A_5^+ B_4^+ C_4^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_4, C_5, D_4)} =$$

$$+A_5^+ B_4^+ \Phi_{(C_5, D_4)} \\$$

$$+A_5^+ D_4^+ \Phi_{(B_4, C_5)} \\$$

$$+B_4^+ C_5^+ \Phi_{(A_5, D_4)} \\$$

$$+C_5^+ D_4^+ \Phi_{(A_5, B_4)} \\$$

$$+A_5^+ B_4^+ C_5^+ D_4^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_4, C_6, D_{15})} =$$

$$+A_5^+ B_4^+ \Phi_{(C_6, D_{15})} \\$$

$$+C_6^+ D_{15}^+ \Phi_{(A_5, B_4)} \\$$

$$+A_5^+ B_4^+ C_6^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_4, C_7, D_{13})} =$$

$$+A_5^+ B_4^+ \Phi_{(C_7, D_{13})} \\$$

$$+C_7^+ D_{13}^+ \Phi_{(A_5, B_4)} \\$$

$$+A_5^+ B_4^+ C_7^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_4, C_7, D_{14})} =$$

$$+A_5^+ B_4^+ \Phi_{(C_7, D_{14})} \\$$

$$+C_7^+ D_{14}^+ \Phi_{(A_5, B_4)} \\$$

$$+A_5^+ B_4^+ C_7^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_4, C_8, D_{13})} =$$

$$+A_5^+ B_4^+ \Phi_{(C_8, D_{13})} \\$$

$$+C_8^+ D_{13}^+ \Phi_{(A_5, B_4)} \\$$

$$+A_5^+ B_4^+ C_8^+ D_{13}^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_8, D_{14})} = \\
&+A_5^+ B_4^+ \Phi_{(C_8, D_{14})} \\
&+C_8^+ D_{14}^+ \Phi_{(A_5, B_4)} \\
&+A_5^+ B_4^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_9, D_{11})} = \\
&+A_5^+ B_4^+ \Phi_{(C_9, D_{11})} \\
&+C_9^+ D_{11}^+ \Phi_{(A_5, B_4)} \\
&+A_5^+ B_4^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_9, D_{12})} = \\
&+A_5^+ B_4^+ \Phi_{(C_9, D_{12})} \\
&+C_9^+ D_{12}^+ \Phi_{(A_5, B_4)} \\
&+A_5^+ B_4^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_{10}, D_{11})} = \\
&+A_5^+ B_4^+ \Phi_{(C_{10}, D_{11})} \\
&+C_{10}^+ D_{11}^+ \Phi_{(A_5, B_4)} \\
&+A_5^+ B_4^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_{10}, D_{12})} = \\
&+A_5^+ B_4^+ \Phi_{(C_{10}, D_{12})} \\
&+C_{10}^+ D_{12}^+ \Phi_{(A_5, B_4)} \\
&+A_5^+ B_4^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_{11}, D_9)} = \\
&+A_5^+ B_4^+ \Phi_{(C_{11}, D_9)} \\
&+C_{11}^+ D_9^+ \Phi_{(A_5, B_4)} \\
&+A_5^+ B_4^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_{11}, D_{10})} = \\
&+ A_5^+ B_4^+ \Phi_{(C_{11}, D_{10})} \\
&+ C_{11}^+ D_{10}^+ \Phi_{(A_5, B_4)} \\
&+ A_5^+ B_4^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_{12}, D_9)} = \\
&+ A_5^+ B_4^+ \Phi_{(C_{12}, D_9)} \\
&+ C_{12}^+ D_9^+ \Phi_{(A_5, B_4)} \\
&+ A_5^+ B_4^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_{12}, D_{10})} = \\
&+ A_5^+ B_4^+ \Phi_{(C_{12}, D_{10})} \\
&+ C_{12}^+ D_{10}^+ \Phi_{(A_5, B_4)} \\
&+ A_5^+ B_4^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_{13}, D_7)} = \\
&+ A_5^+ B_4^+ \Phi_{(C_{13}, D_7)} \\
&+ C_{13}^+ D_7^+ \Phi_{(A_5, B_4)} \\
&+ A_5^+ B_4^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_{13}, D_8)} = \\
&+ A_5^+ B_4^+ \Phi_{(C_{13}, D_8)} \\
&+ C_{13}^+ D_8^+ \Phi_{(A_5, B_4)} \\
&+ A_5^+ B_4^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_4, C_{14}, D_7)} = \\
&+ A_5^+ B_4^+ \Phi_{(C_{14}, D_7)} \\
&+ C_{14}^+ D_7^+ \Phi_{(A_5, B_4)}
\end{aligned}$$

$$+A_5^+ B_4^+ C_{14}^+ D_7^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_5, B_4, C_{14}, D_8)} = \\ +A_5^+ B_4^+ \Phi_{(C_{14}, D_8)} \\ +C_{14}^+ D_8^+ \Phi_{(A_5, B_4)} \\ +A_5^+ B_4^+ C_{14}^+ D_8^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_4, C_{15}, D_6)} = \\ +A_5^+ B_4^+ \Phi_{(C_{15}, D_6)} \\ +C_{15}^+ D_6^+ \Phi_{(A_5, B_4)} \\ +A_5^+ B_4^+ C_{15}^+ D_6^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_5, C_4, D_4)} = \\ +A_5^+ C_4^+ \Phi_{(B_5, D_4)} \\ +A_5^+ D_4^+ \Phi_{(B_5, C_4)} \\ +B_5^+ C_4^+ \Phi_{(A_5, D_4)} \\ +B_5^+ D_4^+ \Phi_{(A_5, C_4)} \\ +A_5^+ B_5^+ C_4^+ D_4^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_6, C_4, D_{15})} = \\ +A_5^+ C_4^+ \Phi_{(B_6, D_{15})} \\ +B_6^+ D_{15}^+ \Phi_{(A_5, C_4)} \\ +A_5^+ B_6^+ C_4^+ D_{15}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_6, C_{11}, D_{11})} = \\ +A_5^+ B_6^+ C_{11}^+ D_{11}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_6, C_{11}, D_{12})} = \\ +A_5^+ B_6^+ C_{11}^+ D_{12}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_6, C_{12}, D_{11})} = \\ + A_5^+ B_6^+ C_{12}^+ D_{11}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_6, C_{12}, D_{12})} = \\ + A_5^+ B_6^+ C_{12}^+ D_{12}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_6, C_{15}, D_4)} = \\ + A_5^+ D_4^+ \Phi_{(B_6, C_{15})} \\ + B_6^+ C_{15}^+ \Phi_{(A_5, D_4)} \\ + A_5^+ B_6^+ C_{15}^+ D_4^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_7, C_1, D_{11})} = \\ + C_1^+ \Phi_{(A_5, B_7, D_{11})} \\ + A_5^+ B_7^+ D_{11}^+ \Phi_{(C_1,)} \\ + A_5^+ B_7^+ C_1^+ D_{11}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_7, C_1, D_{12})} = \\ + C_1^+ \Phi_{(A_5, B_7, D_{12})} \\ + A_5^+ B_7^+ D_{12}^+ \Phi_{(C_1,)} \\ + A_5^+ B_7^+ C_1^+ D_{12}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_7, C_2, D_{11})} = \\ + C_2^+ \Phi_{(A_5, B_7, D_{11})} \\ + A_5^+ B_7^+ D_{11}^+ \Phi_{(C_2,)} \\ + A_5^+ B_7^+ C_2^+ D_{11}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_5, B_7, C_2, D_{12})} = \\ + C_2^+ \Phi_{(A_5, B_7, D_{12})}\end{aligned}$$

$$\begin{aligned}
& +A_5^+ B_7^+ D_{12}^+ \Phi_{(C_2,)} \\
& +A_5^+ B_7^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_7, C_3, D_{11})} = \\
& +C_3^+ \Phi_{(A_5, B_7, D_{11})} \\
& +A_5^+ B_7^+ D_{11}^+ \Phi_{(C_3,)} \\
& +A_5^+ B_7^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_7, C_3, D_{12})} = \\
& +C_3^+ \Phi_{(A_5, B_7, D_{12})} \\
& +A_5^+ B_7^+ D_{12}^+ \Phi_{(C_3,)} \\
& +A_5^+ B_7^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_7, C_4, D_{13})} = \\
& +A_5^+ C_4^+ \Phi_{(B_7, D_{13})} \\
& +B_7^+ D_{13}^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_7^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_7, C_4, D_{14})} = \\
& +A_5^+ C_4^+ \Phi_{(B_7, D_{14})} \\
& +B_7^+ D_{14}^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_7^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_7, C_7, D_{15})} = \\
& +A_5^+ B_7^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_7, C_8, D_{15})} = \\
& +A_5^+ B_7^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{11}, D_1)} = \\
&+ D_1^+ \Phi_{(A_5, B_7, C_{11})} \\
&+ A_5^+ B_7^+ C_{11}^+ \Phi_{(D_1,)} \\
&+ A_5^+ B_7^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{11}, D_2)} = \\
&+ D_2^+ \Phi_{(A_5, B_7, C_{11})} \\
&+ A_5^+ B_7^+ C_{11}^+ \Phi_{(D_2,)} \\
&+ A_5^+ B_7^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{11}, D_3)} = \\
&+ D_3^+ \Phi_{(A_5, B_7, C_{11})} \\
&+ A_5^+ B_7^+ C_{11}^+ \Phi_{(D_3,)} \\
&+ A_5^+ B_7^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{12}, D_1)} = \\
&+ D_1^+ \Phi_{(A_5, B_7, C_{12})} \\
&+ A_5^+ B_7^+ C_{12}^+ \Phi_{(D_1,)} \\
&+ A_5^+ B_7^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{12}, D_2)} = \\
&+ D_2^+ \Phi_{(A_5, B_7, C_{12})} \\
&+ A_5^+ B_7^+ C_{12}^+ \Phi_{(D_2,)} \\
&+ A_5^+ B_7^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{12}, D_3)} = \\
&+ D_3^+ \Phi_{(A_5, B_7, C_{12})} \\
&+ A_5^+ B_7^+ C_{12}^+ \Phi_{(D_3,)} \\
&+ A_5^+ B_7^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{13}, D_4)} = \\
&+ A_5^+ D_4^+ \Phi_{(B_7, C_{13})} \\
&+ B_7^+ C_{13}^+ \Phi_{(A_5, D_4)} \\
&+ A_5^+ B_7^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{14}, D_4)} = \\
&+ A_5^+ D_4^+ \Phi_{(B_7, C_{14})} \\
&+ B_7^+ C_{14}^+ \Phi_{(A_5, D_4)} \\
&+ A_5^+ B_7^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{15}, D_7)} = \\
&+ A_5^+ B_7^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_7, C_{15}, D_8)} = \\
&+ A_5^+ B_7^+ C_{15}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_8, C_1, D_{11})} = \\
&+ C_1^+ \Phi_{(A_5, B_8, D_{11})} \\
&+ A_5^+ B_8^+ D_{11}^+ \Phi_{(C_1,)} \\
&+ A_5^+ B_8^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_8, C_1, D_{12})} = \\
&+ C_1^+ \Phi_{(A_5, B_8, D_{12})} \\
&+ A_5^+ B_8^+ D_{12}^+ \Phi_{(C_1,)} \\
&+ A_5^+ B_8^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_8, C_2, D_{11})} = \\
&+ C_2^+ \Phi_{(A_5, B_8, D_{11})}
\end{aligned}$$

$$+A_5^+ B_8^+ D_{11}^+ \Phi_{(C_2,)}$$

$$+A_5^+ B_8^+ C_2^+ D_{11}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_8, C_2, D_{12})} =$$

$$+C_2^+ \Phi_{(A_5, B_8, D_{12})}$$

$$+A_5^+ B_8^+ D_{12}^+ \Phi_{(C_2,)}$$

$$+A_5^+ B_8^+ C_2^+ D_{12}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_8, C_3, D_{11})} =$$

$$+C_3^+ \Phi_{(A_5, B_8, D_{11})}$$

$$+A_5^+ B_8^+ D_{11}^+ \Phi_{(C_3,)}$$

$$+A_5^+ B_8^+ C_3^+ D_{11}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_8, C_3, D_{12})} =$$

$$+C_3^+ \Phi_{(A_5, B_8, D_{12})}$$

$$+A_5^+ B_8^+ D_{12}^+ \Phi_{(C_3,)}$$

$$+A_5^+ B_8^+ C_3^+ D_{12}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_8, C_4, D_{13})} =$$

$$+A_5^+ C_4^+ \Phi_{(B_8, D_{13})}$$

$$+B_8^+ D_{13}^+ \Phi_{(A_5, C_4)}$$

$$+A_5^+ B_8^+ C_4^+ D_{13}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_8, C_4, D_{14})} =$$

$$+A_5^+ C_4^+ \Phi_{(B_8, D_{14})}$$

$$+B_8^+ D_{14}^+ \Phi_{(A_5, C_4)}$$

$$+A_5^+ B_8^+ C_4^+ D_{14}^+ \Phi_{()}$$

$$\Phi_{(A_5, B_8, C_7, D_{15})} =$$

$$+A_5^+ B_8^+ C_7^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_8, C_8, D_{15})} = \\ +A_5^+ B_8^+ C_8^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_8, C_{11}, D_1)} = \\ +D_1^+ \Phi_{(A_5, B_8, C_{11})} \\ +A_5^+ B_8^+ C_{11}^+ \Phi_{(D_1,)} \\ +A_5^+ B_8^+ C_{11}^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_8, C_{11}, D_2)} = \\ +D_2^+ \Phi_{(A_5, B_8, C_{11})} \\ +A_5^+ B_8^+ C_{11}^+ \Phi_{(D_2,)} \\ +A_5^+ B_8^+ C_{11}^+ D_2^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_8, C_{11}, D_3)} = \\ +D_3^+ \Phi_{(A_5, B_8, C_{11})} \\ +A_5^+ B_8^+ C_{11}^+ \Phi_{(D_3,)} \\ +A_5^+ B_8^+ C_{11}^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_8, C_{12}, D_1)} = \\ +D_1^+ \Phi_{(A_5, B_8, C_{12})} \\ +A_5^+ B_8^+ C_{12}^+ \Phi_{(D_1,)} \\ +A_5^+ B_8^+ C_{12}^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_8, C_{12}, D_2)} = \\ +D_2^+ \Phi_{(A_5, B_8, C_{12})} \\ +A_5^+ B_8^+ C_{12}^+ \Phi_{(D_2,)} \\ +A_5^+ B_8^+ C_{12}^+ D_2^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_5, B_8, C_{12}, D_3)} = \\
&+ D_3^+ \Phi_{(A_5, B_8, C_{12})} \\
&+ A_5^+ B_8^+ C_{12}^+ \Phi_{(D_3,)} \\
&+ A_5^+ B_8^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_8, C_{13}, D_4)} = \\
&+ A_5^+ D_4^+ \Phi_{(B_8, C_{13})} \\
&+ B_8^+ C_{13}^+ \Phi_{(A_5, D_4)} \\
&+ A_5^+ B_8^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_8, C_{14}, D_4)} = \\
&+ A_5^+ D_4^+ \Phi_{(B_8, C_{14})} \\
&+ B_8^+ C_{14}^+ \Phi_{(A_5, D_4)} \\
&+ A_5^+ B_8^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_8, C_{15}, D_7)} = \\
&+ A_5^+ B_8^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_8, C_{15}, D_8)} = \\
&+ A_5^+ B_8^+ C_{15}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_9, C_4, D_{11})} = \\
&+ A_5^+ C_4^+ \Phi_{(B_9, D_{11})} \\
&+ B_9^+ D_{11}^+ \Phi_{(A_5, C_4)} \\
&+ A_5^+ B_9^+ C_4^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_9, C_4, D_{12})} = \\
&+ A_5^+ C_4^+ \Phi_{(B_9, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +B_9^+ D_{12}^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_9^+ C_4^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_9, C_{11}, D_4)} = \\
& +A_5^+ D_4^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_9^+ C_{11}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_9, C_{12}, D_4)} = \\
& +A_5^+ D_4^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_9^+ C_{12}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_{10}, C_4, D_{11})} = \\
& +A_5^+ C_4^+ \Phi_{(B_{10}, D_{11})} \\
& +B_{10}^+ D_{11}^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_{10}^+ C_4^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_{10}, C_4, D_{12})} = \\
& +A_5^+ C_4^+ \Phi_{(B_{10}, D_{12})} \\
& +B_{10}^+ D_{12}^+ \Phi_{(A_5, C_4)} \\
& +A_5^+ B_{10}^+ C_4^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5, B_{10}, C_{11}, D_4)} = \\
& +A_5^+ D_4^+ \Phi_{(B_{10}, C_{11})} \\
& +B_{10}^+ C_{11}^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_{10}^+ C_{11}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_5, B_{10}, C_{12}, D_4)} =$$

$$\begin{aligned}
& +A_5^+ D_4^+ \Phi_{(B_{10}, C_{12})} \\
& +B_{10}^+ C_{12}^+ \Phi_{(A_5, D_4)} \\
& +A_5^+ B_{10}^+ C_{12}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_{11}, C_1, D_7)} = \\
& +C_1^+ \Phi_{(A_5, B_{11}, D_7)} \\
& +A_5^+ B_{11}^+ D_7^+ \Phi_{(C_1,)} \\
& +A_5^+ B_{11}^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_{11}, C_1, D_8)} = \\
& +C_1^+ \Phi_{(A_5, B_{11}, D_8)} \\
& +A_5^+ B_{11}^+ D_8^+ \Phi_{(C_1,)} \\
& +A_5^+ B_{11}^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_{11}, C_2, D_7)} = \\
& +C_2^+ \Phi_{(A_5, B_{11}, D_7)} \\
& +A_5^+ B_{11}^+ D_7^+ \Phi_{(C_2,)} \\
& +A_5^+ B_{11}^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_{11}, C_2, D_8)} = \\
& +C_2^+ \Phi_{(A_5, B_{11}, D_8)} \\
& +A_5^+ B_{11}^+ D_8^+ \Phi_{(C_2,)} \\
& +A_5^+ B_{11}^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5, B_{11}, C_3, D_7)} = \\
& +C_3^+ \Phi_{(A_5, B_{11}, D_7)} \\
& +A_5^+ B_{11}^+ D_7^+ \Phi_{(C_3,)} \\
& +A_5^+ B_{11}^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{11}, C_3, D_8)} = \\
&+ C_3^+ \Phi_{(A_5, B_{11}, D_8)} \\
&+ A_5^+ B_{11}^+ D_8^+ \Phi_{(C_3,)} \\
&+ A_5^+ B_{11}^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{11}, C_4, D_9)} = \\
&+ A_5^+ C_4^+ \Phi_{(B_{11}, D_9)} \\
&+ B_{11}^+ D_9^+ \Phi_{(A_5, C_4)} \\
&+ A_5^+ B_{11}^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{11}, C_4, D_{10})} = \\
&+ A_5^+ C_4^+ \Phi_{(B_{11}, D_{10})} \\
&+ B_{11}^+ D_{10}^+ \Phi_{(A_5, C_4)} \\
&+ A_5^+ B_{11}^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{11}, C_6, D_{11})} = \\
&+ A_5^+ B_{11}^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{11}, C_6, D_{12})} = \\
&+ A_5^+ B_{11}^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{11}, C_7, D_1)} = \\
&+ D_1^+ \Phi_{(A_5, B_{11}, C_7)} \\
&+ A_5^+ B_{11}^+ C_7^+ \Phi_{(D_1,)} \\
&+ A_5^+ B_{11}^+ C_7^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{11}, C_7, D_2)} = \\
&+ D_2^+ \Phi_{(A_5, B_{11}, C_7)} \\
&+ A_5^+ B_{11}^+ C_7^+ \Phi_{(D_2,)}
\end{aligned}$$

$$+A_5^+ B_{11}^+ C_7^+ D_2^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_5, B_{11}, C_7, D_3)} = \\ +D_3^+ \Phi_{(A_5, B_{11}, C_7)} \\ +A_5^+ B_{11}^+ C_7^+ \Phi_{(D_3,)} \\ +A_5^+ B_{11}^+ C_7^+ D_3^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_{11}, C_8, D_1)} = \\ +D_1^+ \Phi_{(A_5, B_{11}, C_8)} \\ +A_5^+ B_{11}^+ C_8^+ \Phi_{(D_1,)} \\ +A_5^+ B_{11}^+ C_8^+ D_1^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_{11}, C_8, D_2)} = \\ +D_2^+ \Phi_{(A_5, B_{11}, C_8)} \\ +A_5^+ B_{11}^+ C_8^+ \Phi_{(D_2,)} \\ +A_5^+ B_{11}^+ C_8^+ D_2^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_{11}, C_8, D_3)} = \\ +D_3^+ \Phi_{(A_5, B_{11}, C_8)} \\ +A_5^+ B_{11}^+ C_8^+ \Phi_{(D_3,)} \\ +A_5^+ B_{11}^+ C_8^+ D_3^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_{11}, C_9, D_4)} = \\ +A_5^+ D_4^+ \Phi_{(B_{11}, C_9)} \\ +B_{11}^+ C_9^+ \Phi_{(A_5, D_4)} \\ +A_5^+ B_{11}^+ C_9^+ D_4^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_5, B_{11}, C_{10}, D_4)} = \\ +A_5^+ D_4^+ \Phi_{(B_{11}, C_{10})} \end{aligned}$$

$$\begin{aligned}
& +B_{11}^+C_{10}^+\Phi_{(A_5,D_4)} \\
& +A_5^+B_{11}^+C_{10}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5,B_{11},C_{11},D_6)} = \\
& +A_5^+B_{11}^+C_{11}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5,B_{11},C_{12},D_6)} = \\
& +A_5^+B_{11}^+C_{12}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5,B_{12},C_1,D_7)} = \\
& +C_1^+\Phi_{(A_5,B_{12},D_7)} \\
& +A_5^+B_{12}^+D_7^+\Phi_{(C_1,)} \\
& +A_5^+B_{12}^+C_1^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5,B_{12},C_1,D_8)} = \\
& +C_1^+\Phi_{(A_5,B_{12},D_8)} \\
& +A_5^+B_{12}^+D_8^+\Phi_{(C_1,)} \\
& +A_5^+B_{12}^+C_1^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5,B_{12},C_2,D_7)} = \\
& +C_2^+\Phi_{(A_5,B_{12},D_7)} \\
& +A_5^+B_{12}^+D_7^+\Phi_{(C_2,)} \\
& +A_5^+B_{12}^+C_2^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_5,B_{12},C_2,D_8)} = \\
& +C_2^+\Phi_{(A_5,B_{12},D_8)} \\
& +A_5^+B_{12}^+D_8^+\Phi_{(C_2,)} \\
& +A_5^+B_{12}^+C_2^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{12}, C_3, D_7)} = \\
&+C_3^+ \Phi_{(A_5, B_{12}, D_7)} \\
&+A_5^+ B_{12}^+ D_7^+ \Phi_{(C_3,)} \\
&+A_5^+ B_{12}^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{12}, C_3, D_8)} = \\
&+C_3^+ \Phi_{(A_5, B_{12}, D_8)} \\
&+A_5^+ B_{12}^+ D_8^+ \Phi_{(C_3,)} \\
&+A_5^+ B_{12}^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{12}, C_4, D_9)} = \\
&+A_5^+ C_4^+ \Phi_{(B_{12}, D_9)} \\
&+B_{12}^+ D_9^+ \Phi_{(A_5, C_4)} \\
&+A_5^+ B_{12}^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{12}, C_4, D_{10})} = \\
&+A_5^+ C_4^+ \Phi_{(B_{12}, D_{10})} \\
&+B_{12}^+ D_{10}^+ \Phi_{(A_5, C_4)} \\
&+A_5^+ B_{12}^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{12}, C_6, D_{11})} = \\
&+A_5^+ B_{12}^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{12}, C_6, D_{12})} = \\
&+A_5^+ B_{12}^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{12}, C_7, D_1)} = \\
&+D_1^+ \Phi_{(A_5, B_{12}, C_7)} \\
&+A_5^+ B_{12}^+ C_7^+ \Phi_{(D_1,)}
\end{aligned}$$

$$+A_5^+ B_{12}^+ C_7^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_{12}, C_7, D_2)} = \\$$

$$+D_2^+ \Phi_{(A_5, B_{12}, C_7)} \\$$

$$+A_5^+ B_{12}^+ C_7^+ \Phi_{(D_2,)} \\$$

$$+A_5^+ B_{12}^+ C_7^+ D_2^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_{12}, C_7, D_3)} = \\$$

$$+D_3^+ \Phi_{(A_5, B_{12}, C_7)} \\$$

$$+A_5^+ B_{12}^+ C_7^+ \Phi_{(D_3,)} \\$$

$$+A_5^+ B_{12}^+ C_7^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_{12}, C_8, D_1)} = \\$$

$$+D_1^+ \Phi_{(A_5, B_{12}, C_8)} \\$$

$$+A_5^+ B_{12}^+ C_8^+ \Phi_{(D_1,)} \\$$

$$+A_5^+ B_{12}^+ C_8^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_{12}, C_8, D_2)} = \\$$

$$+D_2^+ \Phi_{(A_5, B_{12}, C_8)} \\$$

$$+A_5^+ B_{12}^+ C_8^+ \Phi_{(D_2,)} \\$$

$$+A_5^+ B_{12}^+ C_8^+ D_2^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_{12}, C_8, D_3)} = \\$$

$$+D_3^+ \Phi_{(A_5, B_{12}, C_8)} \\$$

$$+A_5^+ B_{12}^+ C_8^+ \Phi_{(D_3,)} \\$$

$$+A_5^+ B_{12}^+ C_8^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_5, B_{12}, C_9, D_4)} = \\$$

$$+A_5^+ D_4^+ \Phi_{(B_{12}, C_9)} \\$$

$$\begin{aligned}
& +B_{12}^+C_9^+\Phi_{(A_5,D_4)} \\
& +A_5^+B_{12}^+C_9^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5,B_{12},C_{10},D_4)} = \\
& +A_5^+D_4^+\Phi_{(B_{12},C_{10})} \\
& +B_{12}^+C_{10}^+\Phi_{(A_5,D_4)} \\
& +A_5^+B_{12}^+C_{10}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5,B_{12},C_{11},D_6)} = \\
& +A_5^+B_{12}^+C_{11}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5,B_{12},C_{12},D_6)} = \\
& +A_5^+B_{12}^+C_{12}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5,B_{13},C_4,D_7)} = \\
& +A_5^+C_4^+\Phi_{(B_{13},D_7)} \\
& +B_{13}^+D_7^+\Phi_{(A_5,C_4)} \\
& +A_5^+B_{13}^+C_4^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5,B_{13},C_4,D_8)} = \\
& +A_5^+C_4^+\Phi_{(B_{13},D_8)} \\
& +B_{13}^+D_8^+\Phi_{(A_5,C_4)} \\
& +A_5^+B_{13}^+C_4^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_5,B_{13},C_7,D_4)} = \\
& +A_5^+D_4^+\Phi_{(B_{13},C_7)} \\
& +B_{13}^+C_7^+\Phi_{(A_5,D_4)} \\
& +A_5^+B_{13}^+C_7^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{13}, C_8, D_4)} = \\
&+ A_5^+ D_4^+ \Phi_{(B_{13}, C_8)} \\
&+ B_{13}^+ C_8^+ \Phi_{(A_5, D_4)} \\
&+ A_5^+ B_{13}^+ C_8^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{14}, C_4, D_7)} = \\
&+ A_5^+ C_4^+ \Phi_{(B_{14}, D_7)} \\
&+ B_{14}^+ D_7^+ \Phi_{(A_5, C_4)} \\
&+ A_5^+ B_{14}^+ C_4^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{14}, C_4, D_8)} = \\
&+ A_5^+ C_4^+ \Phi_{(B_{14}, D_8)} \\
&+ B_{14}^+ D_8^+ \Phi_{(A_5, C_4)} \\
&+ A_5^+ B_{14}^+ C_4^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{14}, C_7, D_4)} = \\
&+ A_5^+ D_4^+ \Phi_{(B_{14}, C_7)} \\
&+ B_{14}^+ C_7^+ \Phi_{(A_5, D_4)} \\
&+ A_5^+ B_{14}^+ C_7^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{14}, C_8, D_4)} = \\
&+ A_5^+ D_4^+ \Phi_{(B_{14}, C_8)} \\
&+ B_{14}^+ C_8^+ \Phi_{(A_5, D_4)} \\
&+ A_5^+ B_{14}^+ C_8^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{15}, C_4, D_6)} = \\
&+ A_5^+ C_4^+ \Phi_{(B_{15}, D_6)} \\
&+ B_{15}^+ D_6^+ \Phi_{(A_5, C_4)} \\
&+ A_5^+ B_{15}^+ C_4^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{15}, C_6, D_4)} = \\
&+ A_5^+ D_4^+ \Phi_{(B_{15}, C_6)} \\
&+ B_{15}^+ C_6^+ \Phi_{(A_5, D_4)} \\
&+ A_5^+ B_{15}^+ C_6^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{15}, C_7, D_7)} = \\
&+ A_5^+ B_{15}^+ C_7^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{15}, C_7, D_8)} = \\
&+ A_5^+ B_{15}^+ C_7^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{15}, C_8, D_7)} = \\
&+ A_5^+ B_{15}^+ C_8^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_5, B_{15}, C_8, D_8)} = \\
&+ A_5^+ B_{15}^+ C_8^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_1, C_1, D_{15})} = \\
&+ B_1^+ \Phi_{(A_6, C_1, D_{15})} \\
&+ C_1^+ \Phi_{(A_6, B_1, D_{15})} \\
&+ A_6^+ D_{15}^+ \Phi_{(B_1, C_1)} \\
&+ B_1^+ C_1^+ \Phi_{(A_6, D_{15})} \\
&+ A_6^+ B_1^+ D_{15}^+ \Phi_{(C_1,)} \\
&+ A_6^+ C_1^+ D_{15}^+ \Phi_{(B_1,)} \\
&+ A_6^+ B_1^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_1, C_2, D_{15})} = \\
&+ B_1^+ \Phi_{(A_6, C_2, D_{15})}
\end{aligned}$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_6, B_1, D_{15})} \\
& +A_6^+ D_{15}^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_1^+ D_{15}^+ \Phi_{(C_2,)} \\
& +A_6^+ C_2^+ D_{15}^+ \Phi_{(B_1,)} \\
& +A_6^+ B_1^+ C_2^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_1, C_3, D_{15})} = \\
& +B_1^+ \Phi_{(A_6, C_3, D_{15})} \\
& +C_3^+ \Phi_{(A_6, B_1, D_{15})} \\
& +A_6^+ D_{15}^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_1^+ D_{15}^+ \Phi_{(C_3,)} \\
& +A_6^+ C_3^+ D_{15}^+ \Phi_{(B_1,)} \\
& +A_6^+ B_1^+ C_3^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_1, C_{11}, D_{13})} = \\
& +B_1^+ \Phi_{(A_6, C_{11}, D_{13})} \\
& +A_6^+ C_{11}^+ D_{13}^+ \Phi_{(B_1,)} \\
& +A_6^+ B_1^+ C_{11}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_1, C_{11}, D_{14})} = \\
& +B_1^+ \Phi_{(A_6, C_{11}, D_{14})} \\
& +A_6^+ C_{11}^+ D_{14}^+ \Phi_{(B_1,)} \\
& +A_6^+ B_1^+ C_{11}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_1, C_{12}, D_{13})} = \\
& +B_1^+ \Phi_{(A_6, C_{12}, D_{13})} \\
& +A_6^+ C_{12}^+ D_{13}^+ \Phi_{(B_1,)}
\end{aligned}$$

$$+A_6^+B_1^+C_{12}^+D_{13}^+\Phi_{()} \\$$

$$\Phi_{(A_6,B_1,C_{12},D_{14})} =$$

$$+B_1^+\Phi_{(A_6,C_{12},D_{14})}$$

$$+A_6^+C_{12}^+D_{14}^+\Phi_{(B_1,)}$$

$$+A_6^+B_1^+C_{12}^+D_{14}^+\Phi_{()} \\$$

$$\Phi_{(A_6,B_1,C_{13},D_{11})} =$$

$$+B_1^+\Phi_{(A_6,C_{13},D_{11})}$$

$$+A_6^+C_{13}^+D_{11}^+\Phi_{(B_1,)}$$

$$+A_6^+B_1^+C_{13}^+D_{11}^+\Phi_{()} \\$$

$$\Phi_{(A_6,B_1,C_{13},D_{12})} =$$

$$+B_1^+\Phi_{(A_6,C_{13},D_{12})}$$

$$+A_6^+C_{13}^+D_{12}^+\Phi_{(B_1,)}$$

$$+A_6^+B_1^+C_{13}^+D_{12}^+\Phi_{()} \\$$

$$\Phi_{(A_6,B_1,C_{14},D_{11})} =$$

$$+B_1^+\Phi_{(A_6,C_{14},D_{11})}$$

$$+A_6^+C_{14}^+D_{11}^+\Phi_{(B_1,)}$$

$$+A_6^+B_1^+C_{14}^+D_{11}^+\Phi_{()} \\$$

$$\Phi_{(A_6,B_1,C_{14},D_{12})} =$$

$$+B_1^+\Phi_{(A_6,C_{14},D_{12})}$$

$$+A_6^+C_{14}^+D_{12}^+\Phi_{(B_1,)}$$

$$+A_6^+B_1^+C_{14}^+D_{12}^+\Phi_{()} \\$$

$$\Phi_{(A_6,B_1,C_{15},D_1)} =$$

$$+B_1^+\Phi_{(A_6,C_{15},D_1)} \\$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_6, B_1, C_{15})} \\
& +A_6^+ C_{15}^+ \Phi_{(B_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_6, C_{15})} \\
& +A_6^+ B_1^+ C_{15}^+ \Phi_{(D_1,)} \\
& +A_6^+ C_{15}^+ D_1^+ \Phi_{(B_1,)} \\
& +A_6^+ B_1^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_1, C_{15}, D_2)} = \\
& +B_1^+ \Phi_{(A_6, C_{15}, D_2)} \\
& +D_2^+ \Phi_{(A_6, B_1, C_{15})} \\
& +A_6^+ C_{15}^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_6, C_{15})} \\
& +A_6^+ B_1^+ C_{15}^+ \Phi_{(D_2,)} \\
& +A_6^+ C_{15}^+ D_2^+ \Phi_{(B_1,)} \\
& +A_6^+ B_1^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_1, C_{15}, D_3)} = \\
& +B_1^+ \Phi_{(A_6, C_{15}, D_3)} \\
& +D_3^+ \Phi_{(A_6, B_1, C_{15})} \\
& +A_6^+ C_{15}^+ \Phi_{(B_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_6, C_{15})} \\
& +A_6^+ B_1^+ C_{15}^+ \Phi_{(D_3,)} \\
& +A_6^+ C_{15}^+ D_3^+ \Phi_{(B_1,)} \\
& +A_6^+ B_1^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_2, C_1, D_{15})} = \\
& +B_2^+ \Phi_{(A_6, C_1, D_{15})} \\
& +C_1^+ \Phi_{(A_6, B_2, D_{15})} \\
& +A_6^+ D_{15}^+ \Phi_{(B_2, C_1)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ C_1^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_2^+ D_{15}^+ \Phi_{(C_1,)} \\
& +A_6^+ C_1^+ D_{15}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_2, C_2, D_{15})} = \\
& +B_2^+ \Phi_{(A_6, C_2, D_{15})} \\
& +C_2^+ \Phi_{(A_6, B_2, D_{15})} \\
& +A_6^+ D_{15}^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_2^+ D_{15}^+ \Phi_{(C_2,)} \\
& +A_6^+ C_2^+ D_{15}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_2^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_2, C_3, D_{15})} = \\
& +B_2^+ \Phi_{(A_6, C_3, D_{15})} \\
& +C_3^+ \Phi_{(A_6, B_2, D_{15})} \\
& +A_6^+ D_{15}^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_2^+ D_{15}^+ \Phi_{(C_3,)} \\
& +A_6^+ C_3^+ D_{15}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_3^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_2, C_{11}, D_{13})} = \\
& +B_2^+ \Phi_{(A_6, C_{11}, D_{13})} \\
& +A_6^+ C_{11}^+ D_{13}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_{11}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_6, B_2, C_{11}, D_{14})} =$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_6, C_{11}, D_{14})} \\
& +A_6^+ C_{11}^+ D_{14}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_{11}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_2, C_{12}, D_{13})} = \\
& +B_2^+ \Phi_{(A_6, C_{12}, D_{13})} \\
& +A_6^+ C_{12}^+ D_{13}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_{12}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_2, C_{12}, D_{14})} = \\
& +B_2^+ \Phi_{(A_6, C_{12}, D_{14})} \\
& +A_6^+ C_{12}^+ D_{14}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_{12}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_2, C_{13}, D_{11})} = \\
& +B_2^+ \Phi_{(A_6, C_{13}, D_{11})} \\
& +A_6^+ C_{13}^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_{13}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_2, C_{13}, D_{12})} = \\
& +B_2^+ \Phi_{(A_6, C_{13}, D_{12})} \\
& +A_6^+ C_{13}^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_{13}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_2, C_{14}, D_{11})} = \\
& +B_2^+ \Phi_{(A_6, C_{14}, D_{11})} \\
& +A_6^+ C_{14}^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_{14}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_2, C_{14}, D_{12})} = \\
&+ B_2^+ \Phi_{(A_6, C_{14}, D_{12})} \\
&+ A_6^+ C_{14}^+ D_{12}^+ \Phi_{(B_2,)} \\
&+ A_6^+ B_2^+ C_{14}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_2, C_{15}, D_1)} = \\
&+ B_2^+ \Phi_{(A_6, C_{15}, D_1)} \\
&+ D_1^+ \Phi_{(A_6, B_2, C_{15})} \\
&+ A_6^+ C_{15}^+ \Phi_{(B_2, D_1)} \\
&+ B_2^+ D_1^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_2^+ C_{15}^+ \Phi_{(D_1,)} \\
&+ A_6^+ C_{15}^+ D_1^+ \Phi_{(B_2,)} \\
&+ A_6^+ B_2^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_2, C_{15}, D_2)} = \\
&+ B_2^+ \Phi_{(A_6, C_{15}, D_2)} \\
&+ D_2^+ \Phi_{(A_6, B_2, C_{15})} \\
&+ A_6^+ C_{15}^+ \Phi_{(B_2, D_2)} \\
&+ B_2^+ D_2^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_2^+ C_{15}^+ \Phi_{(D_2,)} \\
&+ A_6^+ C_{15}^+ D_2^+ \Phi_{(B_2,)} \\
&+ A_6^+ B_2^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_2, C_{15}, D_3)} = \\
&+ B_2^+ \Phi_{(A_6, C_{15}, D_3)} \\
&+ D_3^+ \Phi_{(A_6, B_2, C_{15})} \\
&+ A_6^+ C_{15}^+ \Phi_{(B_2, D_3)} \\
&+ B_2^+ D_3^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_2^+ C_{15}^+ \Phi_{(D_3,)}
\end{aligned}$$

$$\begin{aligned}
& +A_6^+ C_{15}^+ D_3^+ \Phi_{(B_2,)} \\
& +A_6^+ B_2^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_3, C_1, D_{15})} = & \\
& +B_3^+ \Phi_{(A_6, C_1, D_{15})} \\
& +C_1^+ \Phi_{(A_6, B_3, D_{15})} \\
& +A_6^+ D_{15}^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_3^+ D_{15}^+ \Phi_{(C_1,)} \\
& +A_6^+ C_1^+ D_{15}^+ \Phi_{(B_3,)} \\
& +A_6^+ B_3^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_3, C_2, D_{15})} = & \\
& +B_3^+ \Phi_{(A_6, C_2, D_{15})} \\
& +C_2^+ \Phi_{(A_6, B_3, D_{15})} \\
& +A_6^+ D_{15}^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_3^+ D_{15}^+ \Phi_{(C_2,)} \\
& +A_6^+ C_2^+ D_{15}^+ \Phi_{(B_3,)} \\
& +A_6^+ B_3^+ C_2^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_3, C_3, D_{15})} = & \\
& +B_3^+ \Phi_{(A_6, C_3, D_{15})} \\
& +C_3^+ \Phi_{(A_6, B_3, D_{15})} \\
& +A_6^+ D_{15}^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_3^+ D_{15}^+ \Phi_{(C_3,)} \\
& +A_6^+ C_3^+ D_{15}^+ \Phi_{(B_3,)} \\
& +A_6^+ B_3^+ C_3^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_3, C_{11}, D_{13})} = \\
&+ B_3^+ \Phi_{(A_6, C_{11}, D_{13})} \\
&+ A_6^+ C_{11}^+ D_{13}^+ \Phi_{(B_3,)} \\
&+ A_6^+ B_3^+ C_{11}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_3, C_{11}, D_{14})} = \\
&+ B_3^+ \Phi_{(A_6, C_{11}, D_{14})} \\
&+ A_6^+ C_{11}^+ D_{14}^+ \Phi_{(B_3,)} \\
&+ A_6^+ B_3^+ C_{11}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_3, C_{12}, D_{13})} = \\
&+ B_3^+ \Phi_{(A_6, C_{12}, D_{13})} \\
&+ A_6^+ C_{12}^+ D_{13}^+ \Phi_{(B_3,)} \\
&+ A_6^+ B_3^+ C_{12}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_3, C_{12}, D_{14})} = \\
&+ B_3^+ \Phi_{(A_6, C_{12}, D_{14})} \\
&+ A_6^+ C_{12}^+ D_{14}^+ \Phi_{(B_3,)} \\
&+ A_6^+ B_3^+ C_{12}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_3, C_{13}, D_{11})} = \\
&+ B_3^+ \Phi_{(A_6, C_{13}, D_{11})} \\
&+ A_6^+ C_{13}^+ D_{11}^+ \Phi_{(B_3,)} \\
&+ A_6^+ B_3^+ C_{13}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_3, C_{13}, D_{12})} = \\
&+ B_3^+ \Phi_{(A_6, C_{13}, D_{12})} \\
&+ A_6^+ C_{13}^+ D_{12}^+ \Phi_{(B_3,)}
\end{aligned}$$

$$+A_6^+ B_3^+ C_{13}^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_3, C_{14}, D_{11})} =$$

$$+B_3^+ \Phi_{(A_6, C_{14}, D_{11})}$$

$$+A_6^+ C_{14}^+ D_{11}^+ \Phi_{(B_3,)}$$

$$+A_6^+ B_3^+ C_{14}^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_3, C_{14}, D_{12})} =$$

$$+B_3^+ \Phi_{(A_6, C_{14}, D_{12})}$$

$$+A_6^+ C_{14}^+ D_{12}^+ \Phi_{(B_3,)}$$

$$+A_6^+ B_3^+ C_{14}^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_3, C_{15}, D_1)} =$$

$$+B_3^+ \Phi_{(A_6, C_{15}, D_1)}$$

$$+D_1^+ \Phi_{(A_6, B_3, C_{15})}$$

$$+A_6^+ C_{15}^+ \Phi_{(B_3, D_1)}$$

$$+B_3^+ D_1^+ \Phi_{(A_6, C_{15})}$$

$$+A_6^+ B_3^+ C_{15}^+ \Phi_{(D_1,)}$$

$$+A_6^+ C_{15}^+ D_1^+ \Phi_{(B_3,)}$$

$$+A_6^+ B_3^+ C_{15}^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_3, C_{15}, D_2)} =$$

$$+B_3^+ \Phi_{(A_6, C_{15}, D_2)}$$

$$+D_2^+ \Phi_{(A_6, B_3, C_{15})}$$

$$+A_6^+ C_{15}^+ \Phi_{(B_3, D_2)}$$

$$+B_3^+ D_2^+ \Phi_{(A_6, C_{15})}$$

$$+A_6^+ B_3^+ C_{15}^+ \Phi_{(D_2,)}$$

$$+A_6^+ C_{15}^+ D_2^+ \Phi_{(B_3,)}$$

$$+A_6^+ B_3^+ C_{15}^+ D_2^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_6, B_3, C_{15}, D_3)} = \\
&+ B_3^+ \Phi_{(A_6, C_{15}, D_3)} \\
&+ D_3^+ \Phi_{(A_6, B_3, C_{15})} \\
&+ A_6^+ C_{15}^+ \Phi_{(B_3, D_3)} \\
&+ B_3^+ D_3^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_3^+ C_{15}^+ \Phi_{(D_3,)} \\
&+ A_6^+ C_{15}^+ D_3^+ \Phi_{(B_3,)} \\
&+ A_6^+ B_3^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_4, C_5, D_{15})} = \\
&+ A_6^+ D_{15}^+ \Phi_{(B_4, C_5)} \\
&+ B_4^+ C_5^+ \Phi_{(A_6, D_{15})} \\
&+ A_6^+ B_4^+ C_5^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_4, C_{13}, D_{13})} = \\
&+ A_6^+ B_4^+ C_{13}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_4, C_{13}, D_{14})} = \\
&+ A_6^+ B_4^+ C_{13}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_4, C_{14}, D_{13})} = \\
&+ A_6^+ B_4^+ C_{14}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_4, C_{14}, D_{14})} = \\
&+ A_6^+ B_4^+ C_{14}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_4, C_{15}, D_5)} = \\
&+ A_6^+ C_{15}^+ \Phi_{(B_4, D_5)}
\end{aligned}$$

$$\begin{aligned}
& +B_4^+ D_5^+ \Phi_{(A_6, C_{15})} \\
& +A_6^+ B_4^+ C_{15}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_5, C_4, D_{15})} = \\
& +A_6^+ D_{15}^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_5^+ C_4^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_5, C_{11}, D_{11})} = \\
& +A_6^+ B_5^+ C_{11}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_5, C_{11}, D_{12})} = \\
& +A_6^+ B_5^+ C_{11}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_5, C_{12}, D_{11})} = \\
& +A_6^+ B_5^+ C_{12}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_5, C_{12}, D_{12})} = \\
& +A_6^+ B_5^+ C_{12}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_5, C_{15}, D_4)} = \\
& +A_6^+ C_{15}^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_6, C_{15})} \\
& +A_6^+ B_5^+ C_{15}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_6, C_{15}, D_{15})} = \\
& +A_6^+ C_{15}^+ \Phi_{(B_6, D_{15})} \\
& +A_6^+ D_{15}^+ \Phi_{(B_6, C_{15})} \\
& +B_6^+ C_{15}^+ \Phi_{(A_6, D_{15})}
\end{aligned}$$

$$+B_6^+ D_{15}^+ \Phi_{(A_6, C_{15})}$$

$$+A_6^+ B_6^+ C_{15}^+ D_{15}^+ \Phi_{()}$$

$$\Phi_{(A_6, B_7, C_{13}, D_{15})} =$$

$$+A_6^+ D_{15}^+ \Phi_{(B_7, C_{13})}$$

$$+B_7^+ C_{13}^+ \Phi_{(A_6, D_{15})}$$

$$+A_6^+ B_7^+ C_{13}^+ D_{15}^+ \Phi_{()}$$

$$\Phi_{(A_6, B_7, C_{14}, D_{15})} =$$

$$+A_6^+ D_{15}^+ \Phi_{(B_7, C_{14})}$$

$$+B_7^+ C_{14}^+ \Phi_{(A_6, D_{15})}$$

$$+A_6^+ B_7^+ C_{14}^+ D_{15}^+ \Phi_{()}$$

$$\Phi_{(A_6, B_7, C_{15}, D_{13})} =$$

$$+A_6^+ C_{15}^+ \Phi_{(B_7, D_{13})}$$

$$+B_7^+ D_{13}^+ \Phi_{(A_6, C_{15})}$$

$$+A_6^+ B_7^+ C_{15}^+ D_{13}^+ \Phi_{()}$$

$$\Phi_{(A_6, B_7, C_{15}, D_{14})} =$$

$$+A_6^+ C_{15}^+ \Phi_{(B_7, D_{14})}$$

$$+B_7^+ D_{14}^+ \Phi_{(A_6, C_{15})}$$

$$+A_6^+ B_7^+ C_{15}^+ D_{14}^+ \Phi_{()}$$

$$\Phi_{(A_6, B_8, C_{13}, D_{15})} =$$

$$+A_6^+ D_{15}^+ \Phi_{(B_8, C_{13})}$$

$$+B_8^+ C_{13}^+ \Phi_{(A_6, D_{15})}$$

$$+A_6^+ B_8^+ C_{13}^+ D_{15}^+ \Phi_{()}$$

$$\Phi_{(A_6, B_8, C_{14}, D_{15})} =$$

$$\begin{aligned}
& +A_6^+ D_{15}^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_8^+ C_{14}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_8, C_{15}, D_{13})} = \\
& +A_6^+ C_{15}^+ \Phi_{(B_8, D_{13})} \\
& +B_8^+ D_{13}^+ \Phi_{(A_6, C_{15})} \\
& +A_6^+ B_8^+ C_{15}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_8, C_{15}, D_{14})} = \\
& +A_6^+ C_{15}^+ \Phi_{(B_8, D_{14})} \\
& +B_8^+ D_{14}^+ \Phi_{(A_6, C_{15})} \\
& +A_6^+ B_8^+ C_{15}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_9, C_{11}, D_{15})} = \\
& +A_6^+ D_{15}^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_9^+ C_{11}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_9, C_{12}, D_{15})} = \\
& +A_6^+ D_{15}^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_6, D_{15})} \\
& +A_6^+ B_9^+ C_{12}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_9, C_{15}, D_{11})} = \\
& +A_6^+ C_{15}^+ \Phi_{(B_9, D_{11})} \\
& +B_9^+ D_{11}^+ \Phi_{(A_6, C_{15})} \\
& +A_6^+ B_9^+ C_{15}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_9, C_{15}, D_{12})} = \\
&+ A_6^+ C_{15}^+ \Phi_{(B_9, D_{12})} \\
&+ B_9^+ D_{12}^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_9^+ C_{15}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{10}, C_{11}, D_{15})} = \\
&+ A_6^+ D_{15}^+ \Phi_{(B_{10}, C_{11})} \\
&+ B_{10}^+ C_{11}^+ \Phi_{(A_6, D_{15})} \\
&+ A_6^+ B_{10}^+ C_{11}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{10}, C_{12}, D_{15})} = \\
&+ A_6^+ D_{15}^+ \Phi_{(B_{10}, C_{12})} \\
&+ B_{10}^+ C_{12}^+ \Phi_{(A_6, D_{15})} \\
&+ A_6^+ B_{10}^+ C_{12}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{10}, C_{15}, D_{11})} = \\
&+ A_6^+ C_{15}^+ \Phi_{(B_{10}, D_{11})} \\
&+ B_{10}^+ D_{11}^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_{10}^+ C_{15}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{10}, C_{15}, D_{12})} = \\
&+ A_6^+ C_{15}^+ \Phi_{(B_{10}, D_{12})} \\
&+ B_{10}^+ D_{12}^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_{10}^+ C_{15}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_1, D_{13})} = \\
&+ C_1^+ \Phi_{(A_6, B_{11}, D_{13})} \\
&+ A_6^+ B_{11}^+ D_{13}^+ \Phi_{(C_1,)} \\
&+ A_6^+ B_{11}^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_1, D_{14})} = \\
&+C_1^+ \Phi_{(A_6, B_{11}, D_{14})} \\
&+A_6^+ B_{11}^+ D_{14}^+ \Phi_{(C_1,)} \\
&+A_6^+ B_{11}^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_2, D_{13})} = \\
&+C_2^+ \Phi_{(A_6, B_{11}, D_{13})} \\
&+A_6^+ B_{11}^+ D_{13}^+ \Phi_{(C_2,)} \\
&+A_6^+ B_{11}^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_2, D_{14})} = \\
&+C_2^+ \Phi_{(A_6, B_{11}, D_{14})} \\
&+A_6^+ B_{11}^+ D_{14}^+ \Phi_{(C_2,)} \\
&+A_6^+ B_{11}^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_3, D_{13})} = \\
&+C_3^+ \Phi_{(A_6, B_{11}, D_{13})} \\
&+A_6^+ B_{11}^+ D_{13}^+ \Phi_{(C_3,)} \\
&+A_6^+ B_{11}^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_3, D_{14})} = \\
&+C_3^+ \Phi_{(A_6, B_{11}, D_{14})} \\
&+A_6^+ B_{11}^+ D_{14}^+ \Phi_{(C_3,)} \\
&+A_6^+ B_{11}^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_5, D_{11})} = \\
&+A_6^+ B_{11}^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{11}, C_5, D_{12})} = \\ + A_6^+ B_{11}^+ C_5^+ D_{12}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{11}, C_9, D_{15})} = \\ + A_6^+ D_{15}^+ \Phi_{(B_{11}, C_9)} \\ + B_{11}^+ C_9^+ \Phi_{(A_6, D_{15})} \\ + A_6^+ B_{11}^+ C_9^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{11}, C_{10}, D_{15})} = \\ + A_6^+ D_{15}^+ \Phi_{(B_{11}, C_{10})} \\ + B_{11}^+ C_{10}^+ \Phi_{(A_6, D_{15})} \\ + A_6^+ B_{11}^+ C_{10}^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{11}, C_{11}, D_5)} = \\ + A_6^+ B_{11}^+ C_{11}^+ D_5^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{11}, C_{12}, D_5)} = \\ + A_6^+ B_{11}^+ C_{12}^+ D_5^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{11}, C_{13}, D_1)} = \\ + D_1^+ \Phi_{(A_6, B_{11}, C_{13})} \\ + A_6^+ B_{11}^+ C_{13}^+ \Phi_{(D_1,)} \\ + A_6^+ B_{11}^+ C_{13}^+ D_1^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{11}, C_{13}, D_2)} = \\ + D_2^+ \Phi_{(A_6, B_{11}, C_{13})} \\ + A_6^+ B_{11}^+ C_{13}^+ \Phi_{(D_2,)} \\ + A_6^+ B_{11}^+ C_{13}^+ D_2^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_{13}, D_3)} = \\
&+ D_3^+ \Phi_{(A_6, B_{11}, C_{13})} \\
&+ A_6^+ B_{11}^+ C_{13}^+ \Phi_{(D_3,)} \\
&+ A_6^+ B_{11}^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_{14}, D_1)} = \\
&+ D_1^+ \Phi_{(A_6, B_{11}, C_{14})} \\
&+ A_6^+ B_{11}^+ C_{14}^+ \Phi_{(D_1,)} \\
&+ A_6^+ B_{11}^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_{14}, D_2)} = \\
&+ D_2^+ \Phi_{(A_6, B_{11}, C_{14})} \\
&+ A_6^+ B_{11}^+ C_{14}^+ \Phi_{(D_2,)} \\
&+ A_6^+ B_{11}^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_{14}, D_3)} = \\
&+ D_3^+ \Phi_{(A_6, B_{11}, C_{14})} \\
&+ A_6^+ B_{11}^+ C_{14}^+ \Phi_{(D_3,)} \\
&+ A_6^+ B_{11}^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_{15}, D_9)} = \\
&+ A_6^+ C_{15}^+ \Phi_{(B_{11}, D_9)} \\
&+ B_{11}^+ D_9^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_{11}^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{11}, C_{15}, D_{10})} = \\
&+ A_6^+ C_{15}^+ \Phi_{(B_{11}, D_{10})} \\
&+ B_{11}^+ D_{10}^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_{11}^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_1, D_{13})} = \\
&+C_1^+ \Phi_{(A_6, B_{12}, D_{13})} \\
&+A_6^+ B_{12}^+ D_{13}^+ \Phi_{(C_1,)} \\
&+A_6^+ B_{12}^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_1, D_{14})} = \\
&+C_1^+ \Phi_{(A_6, B_{12}, D_{14})} \\
&+A_6^+ B_{12}^+ D_{14}^+ \Phi_{(C_1,)} \\
&+A_6^+ B_{12}^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_2, D_{13})} = \\
&+C_2^+ \Phi_{(A_6, B_{12}, D_{13})} \\
&+A_6^+ B_{12}^+ D_{13}^+ \Phi_{(C_2,)} \\
&+A_6^+ B_{12}^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_2, D_{14})} = \\
&+C_2^+ \Phi_{(A_6, B_{12}, D_{14})} \\
&+A_6^+ B_{12}^+ D_{14}^+ \Phi_{(C_2,)} \\
&+A_6^+ B_{12}^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_3, D_{13})} = \\
&+C_3^+ \Phi_{(A_6, B_{12}, D_{13})} \\
&+A_6^+ B_{12}^+ D_{13}^+ \Phi_{(C_3,)} \\
&+A_6^+ B_{12}^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_3, D_{14})} = \\
&+C_3^+ \Phi_{(A_6, B_{12}, D_{14})} \\
&+A_6^+ B_{12}^+ D_{14}^+ \Phi_{(C_3,)}
\end{aligned}$$

$$+A_6^+ B_{12}^+ C_3^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{12}, C_5, D_{11})} = \\ +A_6^+ B_{12}^+ C_5^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{12}, C_5, D_{12})} = \\ +A_6^+ B_{12}^+ C_5^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{12}, C_9, D_{15})} = \\ +A_6^+ D_{15}^+ \Phi_{(B_{12}, C_9)} \\ +B_{12}^+ C_9^+ \Phi_{(A_6, D_{15})} \\ +A_6^+ B_{12}^+ C_9^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{12}, C_{10}, D_{15})} = \\ +A_6^+ D_{15}^+ \Phi_{(B_{12}, C_{10})} \\ +B_{12}^+ C_{10}^+ \Phi_{(A_6, D_{15})} \\ +A_6^+ B_{12}^+ C_{10}^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{12}, C_{11}, D_5)} = \\ +A_6^+ B_{12}^+ C_{11}^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{12}, C_{12}, D_5)} = \\ +A_6^+ B_{12}^+ C_{12}^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{12}, C_{13}, D_1)} = \\ +D_1^+ \Phi_{(A_6, B_{12}, C_{13})} \\ +A_6^+ B_{12}^+ C_{13}^+ \Phi_{(D_1,)} \\ +A_6^+ B_{12}^+ C_{13}^+ D_1^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_{13}, D_2)} = \\
&+ D_2^+ \Phi_{(A_6, B_{12}, C_{13})} \\
&+ A_6^+ B_{12}^+ C_{13}^+ \Phi_{(D_2,)} \\
&+ A_6^+ B_{12}^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_{13}, D_3)} = \\
&+ D_3^+ \Phi_{(A_6, B_{12}, C_{13})} \\
&+ A_6^+ B_{12}^+ C_{13}^+ \Phi_{(D_3,)} \\
&+ A_6^+ B_{12}^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_{14}, D_1)} = \\
&+ D_1^+ \Phi_{(A_6, B_{12}, C_{14})} \\
&+ A_6^+ B_{12}^+ C_{14}^+ \Phi_{(D_1,)} \\
&+ A_6^+ B_{12}^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_{14}, D_2)} = \\
&+ D_2^+ \Phi_{(A_6, B_{12}, C_{14})} \\
&+ A_6^+ B_{12}^+ C_{14}^+ \Phi_{(D_2,)} \\
&+ A_6^+ B_{12}^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_{14}, D_3)} = \\
&+ D_3^+ \Phi_{(A_6, B_{12}, C_{14})} \\
&+ A_6^+ B_{12}^+ C_{14}^+ \Phi_{(D_3,)} \\
&+ A_6^+ B_{12}^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_{15}, D_9)} = \\
&+ A_6^+ C_{15}^+ \Phi_{(B_{12}, D_9)} \\
&+ B_{12}^+ D_9^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_{12}^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{12}, C_{15}, D_{10})} = \\
&+ A_6^+ C_{15}^+ \Phi_{(B_{12}, D_{10})} \\
&+ B_{12}^+ D_{10}^+ \Phi_{(A_6, C_{15})} \\
&+ A_6^+ B_{12}^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{13}, C_1, D_{11})} = \\
&+ C_1^+ \Phi_{(A_6, B_{13}, D_{11})} \\
&+ A_6^+ B_{13}^+ D_{11}^+ \Phi_{(C_1,)} \\
&+ A_6^+ B_{13}^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{13}, C_1, D_{12})} = \\
&+ C_1^+ \Phi_{(A_6, B_{13}, D_{12})} \\
&+ A_6^+ B_{13}^+ D_{12}^+ \Phi_{(C_1,)} \\
&+ A_6^+ B_{13}^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{13}, C_2, D_{11})} = \\
&+ C_2^+ \Phi_{(A_6, B_{13}, D_{11})} \\
&+ A_6^+ B_{13}^+ D_{11}^+ \Phi_{(C_2,)} \\
&+ A_6^+ B_{13}^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{13}, C_2, D_{12})} = \\
&+ C_2^+ \Phi_{(A_6, B_{13}, D_{12})} \\
&+ A_6^+ B_{13}^+ D_{12}^+ \Phi_{(C_2,)} \\
&+ A_6^+ B_{13}^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{13}, C_3, D_{11})} = \\
&+ C_3^+ \Phi_{(A_6, B_{13}, D_{11})} \\
&+ A_6^+ B_{13}^+ D_{11}^+ \Phi_{(C_3,)}
\end{aligned}$$

$$+A_6^+ B_{13}^+ C_3^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{13}, C_3, D_{12})} =$$

$$+C_3^+ \Phi_{(A_6, B_{13}, D_{12})}$$

$$+A_6^+ B_{13}^+ D_{12}^+ \Phi_{(C_3,)}$$

$$+A_6^+ B_{13}^+ C_3^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{13}, C_4, D_{13})} =$$

$$+A_6^+ B_{13}^+ C_4^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{13}, C_4, D_{14})} =$$

$$+A_6^+ B_{13}^+ C_4^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{13}, C_7, D_{15})} =$$

$$+A_6^+ D_{15}^+ \Phi_{(B_{13}, C_7)}$$

$$+B_{13}^+ C_7^+ \Phi_{(A_6, D_{15})}$$

$$+A_6^+ B_{13}^+ C_7^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{13}, C_8, D_{15})} =$$

$$+A_6^+ D_{15}^+ \Phi_{(B_{13}, C_8)}$$

$$+B_{13}^+ C_8^+ \Phi_{(A_6, D_{15})}$$

$$+A_6^+ B_{13}^+ C_8^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{13}, C_{11}, D_1)} =$$

$$+D_1^+ \Phi_{(A_6, B_{13}, C_{11})}$$

$$+A_6^+ B_{13}^+ C_{11}^+ \Phi_{(D_1,)}$$

$$+A_6^+ B_{13}^+ C_{11}^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{13}, C_{11}, D_2)} =$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_6, B_{13}, C_{11})} \\
& +A_6^+ B_{13}^+ C_{11}^+ \Phi_{(D_2,)} \\
& +A_6^+ B_{13}^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{13}, C_{11}, D_3)} = \\
& +D_3^+ \Phi_{(A_6, B_{13}, C_{11})} \\
& +A_6^+ B_{13}^+ C_{11}^+ \Phi_{(D_3,)} \\
& +A_6^+ B_{13}^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{13}, C_{12}, D_1)} = \\
& +D_1^+ \Phi_{(A_6, B_{13}, C_{12})} \\
& +A_6^+ B_{13}^+ C_{12}^+ \Phi_{(D_1,)} \\
& +A_6^+ B_{13}^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{13}, C_{12}, D_2)} = \\
& +D_2^+ \Phi_{(A_6, B_{13}, C_{12})} \\
& +A_6^+ B_{13}^+ C_{12}^+ \Phi_{(D_2,)} \\
& +A_6^+ B_{13}^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{13}, C_{12}, D_3)} = \\
& +D_3^+ \Phi_{(A_6, B_{13}, C_{12})} \\
& +A_6^+ B_{13}^+ C_{12}^+ \Phi_{(D_3,)} \\
& +A_6^+ B_{13}^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{13}, C_{13}, D_4)} = \\
& +A_6^+ B_{13}^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{13}, C_{14}, D_4)} = \\
& +A_6^+ B_{13}^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{13}, C_{15}, D_7)} = & \\
& + A_6^+ C_{15}^+ \Phi_{(B_{13}, D_7)} \\
& + B_{13}^+ D_7^+ \Phi_{(A_6, C_{15})} \\
& + A_6^+ B_{13}^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{13}, C_{15}, D_8)} = & \\
& + A_6^+ C_{15}^+ \Phi_{(B_{13}, D_8)} \\
& + B_{13}^+ D_8^+ \Phi_{(A_6, C_{15})} \\
& + A_6^+ B_{13}^+ C_{15}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{14}, C_1, D_{11})} = & \\
& + C_1^+ \Phi_{(A_6, B_{14}, D_{11})} \\
& + A_6^+ B_{14}^+ D_{11}^+ \Phi_{(C_1,)} \\
& + A_6^+ B_{14}^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{14}, C_1, D_{12})} = & \\
& + C_1^+ \Phi_{(A_6, B_{14}, D_{12})} \\
& + A_6^+ B_{14}^+ D_{12}^+ \Phi_{(C_1,)} \\
& + A_6^+ B_{14}^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{14}, C_2, D_{11})} = & \\
& + C_2^+ \Phi_{(A_6, B_{14}, D_{11})} \\
& + A_6^+ B_{14}^+ D_{11}^+ \Phi_{(C_2,)} \\
& + A_6^+ B_{14}^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{14}, C_2, D_{12})} = & \\
& + C_2^+ \Phi_{(A_6, B_{14}, D_{12})} \\
& + A_6^+ B_{14}^+ D_{12}^+ \Phi_{(C_2,)}
\end{aligned}$$

$$+A_6^+ B_{14}^+ C_2^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{14}, C_3, D_{11})} =$$

$$+C_3^+ \Phi_{(A_6, B_{14}, D_{11})}$$

$$+A_6^+ B_{14}^+ D_{11}^+ \Phi_{(C_3,)}$$

$$+A_6^+ B_{14}^+ C_3^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{14}, C_3, D_{12})} =$$

$$+C_3^+ \Phi_{(A_6, B_{14}, D_{12})}$$

$$+A_6^+ B_{14}^+ D_{12}^+ \Phi_{(C_3,)}$$

$$+A_6^+ B_{14}^+ C_3^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{14}, C_4, D_{13})} =$$

$$+A_6^+ B_{14}^+ C_4^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{14}, C_4, D_{14})} =$$

$$+A_6^+ B_{14}^+ C_4^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{14}, C_7, D_{15})} =$$

$$+A_6^+ D_{15}^+ \Phi_{(B_{14}, C_7)}$$

$$+B_{14}^+ C_7^+ \Phi_{(A_6, D_{15})}$$

$$+A_6^+ B_{14}^+ C_7^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{14}, C_8, D_{15})} =$$

$$+A_6^+ D_{15}^+ \Phi_{(B_{14}, C_8)}$$

$$+B_{14}^+ C_8^+ \Phi_{(A_6, D_{15})}$$

$$+A_6^+ B_{14}^+ C_8^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_6, B_{14}, C_{11}, D_1)} =$$

$$+D_1^+\Phi_{(A_6,B_{14},C_{11})}$$

$$+A_6^+B_{14}^+C_{11}^+\Phi_{(D_1,)}$$

$$+A_6^+B_{14}^+C_{11}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_6,B_{14},C_{11},D_2)} =$$

$$+D_2^+\Phi_{(A_6,B_{14},C_{11})}$$

$$+A_6^+B_{14}^+C_{11}^+\Phi_{(D_2,)}$$

$$+A_6^+B_{14}^+C_{11}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_6,B_{14},C_{11},D_3)} =$$

$$+D_3^+\Phi_{(A_6,B_{14},C_{11})}$$

$$+A_6^+B_{14}^+C_{11}^+\Phi_{(D_3,)}$$

$$+A_6^+B_{14}^+C_{11}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_6,B_{14},C_{12},D_1)} =$$

$$+D_1^+\Phi_{(A_6,B_{14},C_{12})}$$

$$+A_6^+B_{14}^+C_{12}^+\Phi_{(D_1,)}$$

$$+A_6^+B_{14}^+C_{12}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_6,B_{14},C_{12},D_2)} =$$

$$+D_2^+\Phi_{(A_6,B_{14},C_{12})}$$

$$+A_6^+B_{14}^+C_{12}^+\Phi_{(D_2,)}$$

$$+A_6^+B_{14}^+C_{12}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_6,B_{14},C_{12},D_3)} =$$

$$+D_3^+\Phi_{(A_6,B_{14},C_{12})}$$

$$+A_6^+B_{14}^+C_{12}^+\Phi_{(D_3,)}$$

$$+A_6^+B_{14}^+C_{12}^+D_3^+\Phi_{()}$$

$$\begin{aligned}\Phi_{(A_6, B_{14}, C_{13}, D_4)} = \\ + A_6^+ B_{14}^+ C_{13}^+ D_4^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{14}, C_{14}, D_4)} = \\ + A_6^+ B_{14}^+ C_{14}^+ D_4^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{14}, C_{15}, D_7)} = \\ + A_6^+ C_{15}^+ \Phi_{(B_{14}, D_7)} \\ + B_{14}^+ D_7^+ \Phi_{(A_6, C_{15})} \\ + A_6^+ B_{14}^+ C_{15}^+ D_7^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{14}, C_{15}, D_8)} = \\ + A_6^+ C_{15}^+ \Phi_{(B_{14}, D_8)} \\ + B_{14}^+ D_8^+ \Phi_{(A_6, C_{15})} \\ + A_6^+ B_{14}^+ C_{15}^+ D_8^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{15}, C_1, D_1)} = \\ + C_1^+ \Phi_{(A_6, B_{15}, D_1)} \\ + D_1^+ \Phi_{(A_6, B_{15}, C_1)} \\ + A_6^+ B_{15}^+ \Phi_{(C_1, D_1)} \\ + C_1^+ D_1^+ \Phi_{(A_6, B_{15})} \\ + A_6^+ B_{15}^+ C_1^+ \Phi_{(D_1,)} \\ + A_6^+ B_{15}^+ D_1^+ \Phi_{(C_1,)} \\ + A_6^+ B_{15}^+ C_1^+ D_1^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_6, B_{15}, C_1, D_2)} = \\ + C_1^+ \Phi_{(A_6, B_{15}, D_2)} \\ + D_2^+ \Phi_{(A_6, B_{15}, C_1)} \\ + A_6^+ B_{15}^+ \Phi_{(C_1, D_2)}\end{aligned}$$

$$\begin{aligned}
& +C_1^+ D_2^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_1^+ \Phi_{(D_2,)} \\
& +A_6^+ B_{15}^+ D_2^+ \Phi_{(C_1,)} \\
& +A_6^+ B_{15}^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{15}, C_1, D_3)} = \\
& +C_1^+ \Phi_{(A_6, B_{15}, D_3)} \\
& +D_3^+ \Phi_{(A_6, B_{15}, C_1)} \\
& +A_6^+ B_{15}^+ \Phi_{(C_1, D_3)} \\
& +C_1^+ D_3^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_1^+ \Phi_{(D_3,)} \\
& +A_6^+ B_{15}^+ D_3^+ \Phi_{(C_1,)} \\
& +A_6^+ B_{15}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{15}, C_2, D_1)} = \\
& +C_2^+ \Phi_{(A_6, B_{15}, D_1)} \\
& +D_1^+ \Phi_{(A_6, B_{15}, C_2)} \\
& +A_6^+ B_{15}^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_2^+ \Phi_{(D_1,)} \\
& +A_6^+ B_{15}^+ D_1^+ \Phi_{(C_2,)} \\
& +A_6^+ B_{15}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{15}, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_6, B_{15}, D_2)} \\
& +D_2^+ \Phi_{(A_6, B_{15}, C_2)} \\
& +A_6^+ B_{15}^+ \Phi_{(C_2, D_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_2^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_6^+ B_{15}^+ D_2^+ \Phi_{(C_2,)} \\
& +A_6^+ B_{15}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_6, B_{15}, D_3)} \\
& +D_3^+ \Phi_{(A_6, B_{15}, C_2)} \\
& +A_6^+ B_{15}^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_2^+ \Phi_{(D_3,)} \\
& +A_6^+ B_{15}^+ D_3^+ \Phi_{(C_2,)} \\
& +A_6^+ B_{15}^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_6, B_{15}, D_1)} \\
& +D_1^+ \Phi_{(A_6, B_{15}, C_3)} \\
& +A_6^+ B_{15}^+ \Phi_{(C_3, D_1)} \\
& +C_3^+ D_1^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_3^+ \Phi_{(D_1,)} \\
& +A_6^+ B_{15}^+ D_1^+ \Phi_{(C_3,)} \\
& +A_6^+ B_{15}^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_6, B_{15}, D_2)} \\
& +D_2^+ \Phi_{(A_6, B_{15}, C_3)} \\
& +A_6^+ B_{15}^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_3^+ \Phi_{(D_2,)} \\
& +A_6^+ B_{15}^+ D_2^+ \Phi_{(C_3,)} \\
& +A_6^+ B_{15}^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{15}, C_3, D_3)} = \\
&+ C_3^+ \Phi_{(A_6, B_{15}, D_3)} \\
&+ D_3^+ \Phi_{(A_6, B_{15}, C_3)} \\
&+ A_6^+ B_{15}^+ \Phi_{(C_3, D_3)} \\
&+ C_3^+ D_3^+ \Phi_{(A_6, B_{15})} \\
&+ A_6^+ B_{15}^+ C_3^+ \Phi_{(D_3,)} \\
&+ A_6^+ B_{15}^+ D_3^+ \Phi_{(C_3,)} \\
&+ A_6^+ B_{15}^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{15}, C_4, D_5)} = \\
&+ A_6^+ B_{15}^+ \Phi_{(C_4, D_5)} \\
&+ C_4^+ D_5^+ \Phi_{(A_6, B_{15})} \\
&+ A_6^+ B_{15}^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{15}, C_5, D_4)} = \\
&+ A_6^+ B_{15}^+ \Phi_{(C_5, D_4)} \\
&+ C_5^+ D_4^+ \Phi_{(A_6, B_{15})} \\
&+ A_6^+ B_{15}^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{15}, C_6, D_{15})} = \\
&+ A_6^+ B_{15}^+ \Phi_{(C_6, D_{15})} \\
&+ A_6^+ D_{15}^+ \Phi_{(B_{15}, C_6)} \\
&+ B_{15}^+ C_6^+ \Phi_{(A_6, D_{15})} \\
&+ C_6^+ D_{15}^+ \Phi_{(A_6, B_{15})} \\
&+ A_6^+ B_{15}^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_6, B_{15}, C_7, D_{13})} = \\
&+ A_6^+ B_{15}^+ \Phi_{(C_7, D_{13})}
\end{aligned}$$

$$\begin{aligned}
& +C_7^+ D_{13}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_7, D_{14})} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_8, D_{13})} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_8, D_{14})} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_8, D_{14})} \\
& +C_8^+ D_{14}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_9, D_{11})} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_9, D_{12})} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_9, D_{12})} \\
& +C_9^+ D_{12}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_6, B_{15}, C_{10}, D_{11})} =$$

$$\begin{aligned}
& +A_6^+ B_{15}^+ \Phi_{(C_{10}, D_{11})} \\
& +C_{10}^+ D_{11}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{15}, C_{10}, D_{12})} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_{10}, D_{12})} \\
& +C_{10}^+ D_{12}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{15}, C_{11}, D_9)} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_{11}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{15}, C_{11}, D_{10})} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_{11}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{15}, C_{12}, D_9)} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_{12}, D_9)} \\
& +C_{12}^+ D_9^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_6, B_{15}, C_{12}, D_{10})} = \\
& +A_6^+ B_{15}^+ \Phi_{(C_{12}, D_{10})} \\
& +C_{12}^+ D_{10}^+ \Phi_{(A_6, B_{15})} \\
& +A_6^+ B_{15}^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_{13}, D_7)} = & \\
& + A_6^+ B_{15}^+ \Phi_{(C_{13}, D_7)} \\
& + C_{13}^+ D_7^+ \Phi_{(A_6, B_{15})} \\
& + A_6^+ B_{15}^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_{13}, D_8)} = & \\
& + A_6^+ B_{15}^+ \Phi_{(C_{13}, D_8)} \\
& + C_{13}^+ D_8^+ \Phi_{(A_6, B_{15})} \\
& + A_6^+ B_{15}^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_{14}, D_7)} = & \\
& + A_6^+ B_{15}^+ \Phi_{(C_{14}, D_7)} \\
& + C_{14}^+ D_7^+ \Phi_{(A_6, B_{15})} \\
& + A_6^+ B_{15}^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_{14}, D_8)} = & \\
& + A_6^+ B_{15}^+ \Phi_{(C_{14}, D_8)} \\
& + C_{14}^+ D_8^+ \Phi_{(A_6, B_{15})} \\
& + A_6^+ B_{15}^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_6, B_{15}, C_{15}, D_6)} = & \\
& + A_6^+ B_{15}^+ \Phi_{(C_{15}, D_6)} \\
& + A_6^+ C_{15}^+ \Phi_{(B_{15}, D_6)} \\
& + B_{15}^+ D_6^+ \Phi_{(A_6, C_{15})} \\
& + C_{15}^+ D_6^+ \Phi_{(A_6, B_{15})} \\
& + A_6^+ B_{15}^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_1, C_1, D_{13})} = & \\
& + B_1^+ \Phi_{(A_7, C_1, D_{13})}
\end{aligned}$$

$$\begin{aligned}
& +C_1^+ \Phi_{(A_7, B_1, D_{13})} \\
& +A_7^+ D_{13}^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_7, D_{13})} \\
& +A_7^+ B_1^+ D_{13}^+ \Phi_{(C_1,)} \\
& +A_7^+ C_1^+ D_{13}^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_1, C_1, D_{14})} = \\
& +B_1^+ \Phi_{(A_7, C_1, D_{14})} \\
& +C_1^+ \Phi_{(A_7, B_1, D_{14})} \\
& +A_7^+ D_{14}^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_7, D_{14})} \\
& +A_7^+ B_1^+ D_{14}^+ \Phi_{(C_1,)} \\
& +A_7^+ C_1^+ D_{14}^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_1, C_2, D_{13})} = \\
& +B_1^+ \Phi_{(A_7, C_2, D_{13})} \\
& +C_2^+ \Phi_{(A_7, B_1, D_{13})} \\
& +A_7^+ D_{13}^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_7, D_{13})} \\
& +A_7^+ B_1^+ D_{13}^+ \Phi_{(C_2,)} \\
& +A_7^+ C_2^+ D_{13}^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_1, C_2, D_{14})} = \\
& +B_1^+ \Phi_{(A_7, C_2, D_{14})} \\
& +C_2^+ \Phi_{(A_7, B_1, D_{14})} \\
& +A_7^+ D_{14}^+ \Phi_{(B_1, C_2)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+C_2^+\Phi_{(A_7,D_{14})} \\
& +A_7^+B_1^+D_{14}^+\Phi_{(C_2,)} \\
& +A_7^+C_2^+D_{14}^+\Phi_{(B_1,)} \\
& +A_7^+B_1^+C_2^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7,B_1,C_3,D_{13})} = \\
& +B_1^+\Phi_{(A_7,C_3,D_{13})} \\
& +C_3^+\Phi_{(A_7,B_1,D_{13})} \\
& +A_7^+D_{13}^+\Phi_{(B_1,C_3)} \\
& +B_1^+C_3^+\Phi_{(A_7,D_{13})} \\
& +A_7^+B_1^+D_{13}^+\Phi_{(C_3,)} \\
& +A_7^+C_3^+D_{13}^+\Phi_{(B_1,)} \\
& +A_7^+B_1^+C_3^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7,B_1,C_3,D_{14})} = \\
& +B_1^+\Phi_{(A_7,C_3,D_{14})} \\
& +C_3^+\Phi_{(A_7,B_1,D_{14})} \\
& +A_7^+D_{14}^+\Phi_{(B_1,C_3)} \\
& +B_1^+C_3^+\Phi_{(A_7,D_{14})} \\
& +A_7^+B_1^+D_{14}^+\Phi_{(C_3,)} \\
& +A_7^+C_3^+D_{14}^+\Phi_{(B_1,)} \\
& +A_7^+B_1^+C_3^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7,B_1,C_5,D_{11})} = \\
& +B_1^+\Phi_{(A_7,C_5,D_{11})} \\
& +A_7^+C_5^+D_{11}^+\Phi_{(B_1,)} \\
& +A_7^+B_1^+C_5^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_7,B_1,C_5,D_{12})} =$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_7, C_5, D_{12})} \\
& +A_7^+ C_5^+ D_{12}^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_1, C_9, D_{15})} = \\
& +B_1^+ \Phi_{(A_7, C_9, D_{15})} \\
& +A_7^+ C_9^+ D_{15}^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_1, C_{10}, D_{15})} = \\
& +B_1^+ \Phi_{(A_7, C_{10}, D_{15})} \\
& +A_7^+ C_{10}^+ D_{15}^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_{10}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_1, C_{11}, D_5)} = \\
& +B_1^+ \Phi_{(A_7, C_{11}, D_5)} \\
& +A_7^+ C_{11}^+ D_5^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_{11}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_1, C_{12}, D_5)} = \\
& +B_1^+ \Phi_{(A_7, C_{12}, D_5)} \\
& +A_7^+ C_{12}^+ D_5^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_{12}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_1, C_{13}, D_1)} = \\
& +B_1^+ \Phi_{(A_7, C_{13}, D_1)} \\
& +D_1^+ \Phi_{(A_7, B_1, C_{13})} \\
& +A_7^+ C_{13}^+ \Phi_{(B_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_7, C_{13})}
\end{aligned}$$

$$\begin{aligned}
& +A_7^+ B_1^+ C_{13}^+ \Phi_{(D_1,)} \\
& +A_7^+ C_{13}^+ D_1^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_1, C_{13}, D_2)} = \\
& +B_1^+ \Phi_{(A_7, C_{13}, D_2)} \\
& +D_2^+ \Phi_{(A_7, B_1, C_{13})} \\
& +A_7^+ C_{13}^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_7, C_{13})} \\
& +A_7^+ B_1^+ C_{13}^+ \Phi_{(D_2,)} \\
& +A_7^+ C_{13}^+ D_2^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_1, C_{13}, D_3)} = \\
& +B_1^+ \Phi_{(A_7, C_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_7, B_1, C_{13})} \\
& +A_7^+ C_{13}^+ \Phi_{(B_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_7, C_{13})} \\
& +A_7^+ B_1^+ C_{13}^+ \Phi_{(D_3,)} \\
& +A_7^+ C_{13}^+ D_3^+ \Phi_{(B_1,)} \\
& +A_7^+ B_1^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_1, C_{14}, D_1)} = \\
& +B_1^+ \Phi_{(A_7, C_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_7, B_1, C_{14})} \\
& +A_7^+ C_{14}^+ \Phi_{(B_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_1^+ C_{14}^+ \Phi_{(D_1,)} \\
& +A_7^+ C_{14}^+ D_1^+ \Phi_{(B_1,)}
\end{aligned}$$

$$+A_7^+ B_1^+ C_{14}^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_1, C_{14}, D_2)} =$$

$$+B_1^+ \Phi_{(A_7, C_{14}, D_2)}$$

$$+D_2^+ \Phi_{(A_7, B_1, C_{14})}$$

$$+A_7^+ C_{14}^+ \Phi_{(B_1, D_2)}$$

$$+B_1^+ D_2^+ \Phi_{(A_7, C_{14})}$$

$$+A_7^+ B_1^+ C_{14}^+ \Phi_{(D_2,)}$$

$$+A_7^+ C_{14}^+ D_2^+ \Phi_{(B_1,)}$$

$$+A_7^+ B_1^+ C_{14}^+ D_2^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_1, C_{14}, D_3)} =$$

$$+B_1^+ \Phi_{(A_7, C_{14}, D_3)}$$

$$+D_3^+ \Phi_{(A_7, B_1, C_{14})}$$

$$+A_7^+ C_{14}^+ \Phi_{(B_1, D_3)}$$

$$+B_1^+ D_3^+ \Phi_{(A_7, C_{14})}$$

$$+A_7^+ B_1^+ C_{14}^+ \Phi_{(D_3,)}$$

$$+A_7^+ C_{14}^+ D_3^+ \Phi_{(B_1,)}$$

$$+A_7^+ B_1^+ C_{14}^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_1, C_{15}, D_9)} =$$

$$+B_1^+ \Phi_{(A_7, C_{15}, D_9)}$$

$$+A_7^+ C_{15}^+ D_9^+ \Phi_{(B_1,)}$$

$$+A_7^+ B_1^+ C_{15}^+ D_9^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_1, C_{15}, D_{10})} =$$

$$+B_1^+ \Phi_{(A_7, C_{15}, D_{10})}$$

$$+A_7^+ C_{15}^+ D_{10}^+ \Phi_{(B_1,)}$$

$$+A_7^+ B_1^+ C_{15}^+ D_{10}^+ \Phi_{()} \\$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_1, D_{13})} = \\
& + B_2^+ \Phi_{(A_7, C_1, D_{13})} \\
& + C_1^+ \Phi_{(A_7, B_2, D_{13})} \\
& + A_7^+ D_{13}^+ \Phi_{(B_2, C_1)} \\
& + B_2^+ C_1^+ \Phi_{(A_7, D_{13})} \\
& + A_7^+ B_2^+ D_{13}^+ \Phi_{(C_1,)} \\
& + A_7^+ C_1^+ D_{13}^+ \Phi_{(B_2,)} \\
& + A_7^+ B_2^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_1, D_{14})} = \\
& + B_2^+ \Phi_{(A_7, C_1, D_{14})} \\
& + C_1^+ \Phi_{(A_7, B_2, D_{14})} \\
& + A_7^+ D_{14}^+ \Phi_{(B_2, C_1)} \\
& + B_2^+ C_1^+ \Phi_{(A_7, D_{14})} \\
& + A_7^+ B_2^+ D_{14}^+ \Phi_{(C_1,)} \\
& + A_7^+ C_1^+ D_{14}^+ \Phi_{(B_2,)} \\
& + A_7^+ B_2^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_2, D_{13})} = \\
& + B_2^+ \Phi_{(A_7, C_2, D_{13})} \\
& + C_2^+ \Phi_{(A_7, B_2, D_{13})} \\
& + A_7^+ D_{13}^+ \Phi_{(B_2, C_2)} \\
& + B_2^+ C_2^+ \Phi_{(A_7, D_{13})} \\
& + A_7^+ B_2^+ D_{13}^+ \Phi_{(C_2,)} \\
& + A_7^+ C_2^+ D_{13}^+ \Phi_{(B_2,)} \\
& + A_7^+ B_2^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_7, B_2, C_2, D_{14})} =$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_7, C_2, D_{14})} \\
& +C_2^+ \Phi_{(A_7, B_2, D_{14})} \\
& +A_7^+ D_{14}^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_7, D_{14})} \\
& +A_7^+ B_2^+ D_{14}^+ \Phi_{(C_2,)} \\
& +A_7^+ C_2^+ D_{14}^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_3, D_{13})} = \\
& +B_2^+ \Phi_{(A_7, C_3, D_{13})} \\
& +C_3^+ \Phi_{(A_7, B_2, D_{13})} \\
& +A_7^+ D_{13}^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_7, D_{13})} \\
& +A_7^+ B_2^+ D_{13}^+ \Phi_{(C_3,)} \\
& +A_7^+ C_3^+ D_{13}^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_3, D_{14})} = \\
& +B_2^+ \Phi_{(A_7, C_3, D_{14})} \\
& +C_3^+ \Phi_{(A_7, B_2, D_{14})} \\
& +A_7^+ D_{14}^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_7, D_{14})} \\
& +A_7^+ B_2^+ D_{14}^+ \Phi_{(C_3,)} \\
& +A_7^+ C_3^+ D_{14}^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_5, D_{11})} = \\
& +B_2^+ \Phi_{(A_7, C_5, D_{11})} \\
& +A_7^+ C_5^+ D_{11}^+ \Phi_{(B_2,)}
\end{aligned}$$

$$+A_7^+B_2^+C_5^+D_{11}^+\Phi_{()} \\$$

$$\Phi_{(A_7,B_2,C_5,D_{12})} = \\$$

$$+B_2^+\Phi_{(A_7,C_5,D_{12})} \\$$

$$+A_7^+C_5^+D_{12}^+\Phi_{(B_2,)} \\$$

$$+A_7^+B_2^+C_5^+D_{12}^+\Phi_{()} \\$$

$$\Phi_{(A_7,B_2,C_9,D_{15})} = \\$$

$$+B_2^+\Phi_{(A_7,C_9,D_{15})} \\$$

$$+A_7^+C_9^+D_{15}^+\Phi_{(B_2,)} \\$$

$$+A_7^+B_2^+C_9^+D_{15}^+\Phi_{()} \\$$

$$\Phi_{(A_7,B_2,C_{10},D_{15})} = \\$$

$$+B_2^+\Phi_{(A_7,C_{10},D_{15})} \\$$

$$+A_7^+C_{10}^+D_{15}^+\Phi_{(B_2,)} \\$$

$$+A_7^+B_2^+C_{10}^+D_{15}^+\Phi_{()} \\$$

$$\Phi_{(A_7,B_2,C_{11},D_5)} = \\$$

$$+B_2^+\Phi_{(A_7,C_{11},D_5)} \\$$

$$+A_7^+C_{11}^+D_5^+\Phi_{(B_2,)} \\$$

$$+A_7^+B_2^+C_{11}^+D_5^+\Phi_{()} \\$$

$$\Phi_{(A_7,B_2,C_{12},D_5)} = \\$$

$$+B_2^+\Phi_{(A_7,C_{12},D_5)} \\$$

$$+A_7^+C_{12}^+D_5^+\Phi_{(B_2,)} \\$$

$$+A_7^+B_2^+C_{12}^+D_5^+\Phi_{()} \\$$

$$\Phi_{(A_7,B_2,C_{13},D_1)} = \\$$

$$+B_2^+\Phi_{(A_7,C_{13},D_1)} \\$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_7, B_2, C_{13})} \\
& +A_7^+ C_{13}^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_7, C_{13})} \\
& +A_7^+ B_2^+ C_{13}^+ \Phi_{(D_1,)} \\
& +A_7^+ C_{13}^+ D_1^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_{13}, D_2)} = \\
& +B_2^+ \Phi_{(A_7, C_{13}, D_2)} \\
& +D_2^+ \Phi_{(A_7, B_2, C_{13})} \\
& +A_7^+ C_{13}^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_7, C_{13})} \\
& +A_7^+ B_2^+ C_{13}^+ \Phi_{(D_2,)} \\
& +A_7^+ C_{13}^+ D_2^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_{13}, D_3)} = \\
& +B_2^+ \Phi_{(A_7, C_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_7, B_2, C_{13})} \\
& +A_7^+ C_{13}^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_7, C_{13})} \\
& +A_7^+ B_2^+ C_{13}^+ \Phi_{(D_3,)} \\
& +A_7^+ C_{13}^+ D_3^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_{14}, D_1)} = \\
& +B_2^+ \Phi_{(A_7, C_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_7, B_2, C_{14})} \\
& +A_7^+ C_{14}^+ \Phi_{(B_2, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ D_1^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_2^+ C_{14}^+ \Phi_{(D_1,)} \\
& +A_7^+ C_{14}^+ D_1^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_{14}, D_2)} = \\
& +B_2^+ \Phi_{(A_7, C_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_7, B_2, C_{14})} \\
& +A_7^+ C_{14}^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_2^+ C_{14}^+ \Phi_{(D_2,)} \\
& +A_7^+ C_{14}^+ D_2^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_{14}, D_3)} = \\
& +B_2^+ \Phi_{(A_7, C_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_7, B_2, C_{14})} \\
& +A_7^+ C_{14}^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_2^+ C_{14}^+ \Phi_{(D_3,)} \\
& +A_7^+ C_{14}^+ D_3^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_2, C_{15}, D_9)} = \\
& +B_2^+ \Phi_{(A_7, C_{15}, D_9)} \\
& +A_7^+ C_{15}^+ D_9^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_7, B_2, C_{15}, D_{10})} =$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_7, C_{15}, D_{10})} \\
& +A_7^+ C_{15}^+ D_{10}^+ \Phi_{(B_2,)} \\
& +A_7^+ B_2^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_3, C_1, D_{13})} = \\
& +B_3^+ \Phi_{(A_7, C_1, D_{13})} \\
& +C_1^+ \Phi_{(A_7, B_3, D_{13})} \\
& +A_7^+ D_{13}^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_7, D_{13})} \\
& +A_7^+ B_3^+ D_{13}^+ \Phi_{(C_1,)} \\
& +A_7^+ C_1^+ D_{13}^+ \Phi_{(B_3,)} \\
& +A_7^+ B_3^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_3, C_1, D_{14})} = \\
& +B_3^+ \Phi_{(A_7, C_1, D_{14})} \\
& +C_1^+ \Phi_{(A_7, B_3, D_{14})} \\
& +A_7^+ D_{14}^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_7, D_{14})} \\
& +A_7^+ B_3^+ D_{14}^+ \Phi_{(C_1,)} \\
& +A_7^+ C_1^+ D_{14}^+ \Phi_{(B_3,)} \\
& +A_7^+ B_3^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_3, C_2, D_{13})} = \\
& +B_3^+ \Phi_{(A_7, C_2, D_{13})} \\
& +C_2^+ \Phi_{(A_7, B_3, D_{13})} \\
& +A_7^+ D_{13}^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_7, D_{13})} \\
& +A_7^+ B_3^+ D_{13}^+ \Phi_{(C_2,)} \\
& +A_7^+ C_2^+ D_{13}^+ \Phi_{(B_3,)}
\end{aligned}$$

$$+A_7^+ B_3^+ C_2^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_3, C_2, D_{14})} =$$

$$+B_3^+ \Phi_{(A_7, C_2, D_{14})}$$

$$+C_2^+ \Phi_{(A_7, B_3, D_{14})}$$

$$+A_7^+ D_{14}^+ \Phi_{(B_3, C_2)}$$

$$+B_3^+ C_2^+ \Phi_{(A_7, D_{14})}$$

$$+A_7^+ B_3^+ D_{14}^+ \Phi_{(C_2,)}$$

$$+A_7^+ C_2^+ D_{14}^+ \Phi_{(B_3,)}$$

$$+A_7^+ B_3^+ C_2^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_3, C_3, D_{13})} =$$

$$+B_3^+ \Phi_{(A_7, C_3, D_{13})}$$

$$+C_3^+ \Phi_{(A_7, B_3, D_{13})}$$

$$+A_7^+ D_{13}^+ \Phi_{(B_3, C_3)}$$

$$+B_3^+ C_3^+ \Phi_{(A_7, D_{13})}$$

$$+A_7^+ B_3^+ D_{13}^+ \Phi_{(C_3,)}$$

$$+A_7^+ C_3^+ D_{13}^+ \Phi_{(B_3,)}$$

$$+A_7^+ B_3^+ C_3^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_3, C_3, D_{14})} =$$

$$+B_3^+ \Phi_{(A_7, C_3, D_{14})}$$

$$+C_3^+ \Phi_{(A_7, B_3, D_{14})}$$

$$+A_7^+ D_{14}^+ \Phi_{(B_3, C_3)}$$

$$+B_3^+ C_3^+ \Phi_{(A_7, D_{14})}$$

$$+A_7^+ B_3^+ D_{14}^+ \Phi_{(C_3,)}$$

$$+A_7^+ C_3^+ D_{14}^+ \Phi_{(B_3,)}$$

$$+A_7^+ B_3^+ C_3^+ D_{14}^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_7, B_3, C_5, D_{11})} = \\
&+ B_3^+ \Phi_{(A_7, C_5, D_{11})} \\
&+ A_7^+ C_5^+ D_{11}^+ \Phi_{(B_3,)} \\
&+ A_7^+ B_3^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_3, C_5, D_{12})} = \\
&+ B_3^+ \Phi_{(A_7, C_5, D_{12})} \\
&+ A_7^+ C_5^+ D_{12}^+ \Phi_{(B_3,)} \\
&+ A_7^+ B_3^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_3, C_9, D_{15})} = \\
&+ B_3^+ \Phi_{(A_7, C_9, D_{15})} \\
&+ A_7^+ C_9^+ D_{15}^+ \Phi_{(B_3,)} \\
&+ A_7^+ B_3^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_3, C_{10}, D_{15})} = \\
&+ B_3^+ \Phi_{(A_7, C_{10}, D_{15})} \\
&+ A_7^+ C_{10}^+ D_{15}^+ \Phi_{(B_3,)} \\
&+ A_7^+ B_3^+ C_{10}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_3, C_{11}, D_5)} = \\
&+ B_3^+ \Phi_{(A_7, C_{11}, D_5)} \\
&+ A_7^+ C_{11}^+ D_5^+ \Phi_{(B_3,)} \\
&+ A_7^+ B_3^+ C_{11}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_3, C_{12}, D_5)} = \\
&+ B_3^+ \Phi_{(A_7, C_{12}, D_5)} \\
&+ A_7^+ C_{12}^+ D_5^+ \Phi_{(B_3,)} \\
&+ A_7^+ B_3^+ C_{12}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_3, C_{13}, D_1)} = \\
& + B_3^+ \Phi_{(A_7, C_{13}, D_1)} \\
& + D_1^+ \Phi_{(A_7, B_3, C_{13})} \\
& + A_7^+ C_{13}^+ \Phi_{(B_3, D_1)} \\
& + B_3^+ D_1^+ \Phi_{(A_7, C_{13})} \\
& + A_7^+ B_3^+ C_{13}^+ \Phi_{(D_1,)} \\
& + A_7^+ C_{13}^+ D_1^+ \Phi_{(B_3,)} \\
& + A_7^+ B_3^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_3, C_{13}, D_2)} = \\
& + B_3^+ \Phi_{(A_7, C_{13}, D_2)} \\
& + D_2^+ \Phi_{(A_7, B_3, C_{13})} \\
& + A_7^+ C_{13}^+ \Phi_{(B_3, D_2)} \\
& + B_3^+ D_2^+ \Phi_{(A_7, C_{13})} \\
& + A_7^+ B_3^+ C_{13}^+ \Phi_{(D_2,)} \\
& + A_7^+ C_{13}^+ D_2^+ \Phi_{(B_3,)} \\
& + A_7^+ B_3^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_3, C_{13}, D_3)} = \\
& + B_3^+ \Phi_{(A_7, C_{13}, D_3)} \\
& + D_3^+ \Phi_{(A_7, B_3, C_{13})} \\
& + A_7^+ C_{13}^+ \Phi_{(B_3, D_3)} \\
& + B_3^+ D_3^+ \Phi_{(A_7, C_{13})} \\
& + A_7^+ B_3^+ C_{13}^+ \Phi_{(D_3,)} \\
& + A_7^+ C_{13}^+ D_3^+ \Phi_{(B_3,)} \\
& + A_7^+ B_3^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_7, B_3, C_{14}, D_1)} =$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_7, C_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_7, B_3, C_{14})} \\
& +A_7^+ C_{14}^+ \Phi_{(B_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_3^+ C_{14}^+ \Phi_{(D_1,)} \\
& +A_7^+ C_{14}^+ D_1^+ \Phi_{(B_3,)} \\
& +A_7^+ B_3^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_3, C_{14}, D_2)} = \\
& +B_3^+ \Phi_{(A_7, C_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_7, B_3, C_{14})} \\
& +A_7^+ C_{14}^+ \Phi_{(B_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_3^+ C_{14}^+ \Phi_{(D_2,)} \\
& +A_7^+ C_{14}^+ D_2^+ \Phi_{(B_3,)} \\
& +A_7^+ B_3^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_3, C_{14}, D_3)} = \\
& +B_3^+ \Phi_{(A_7, C_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_7, B_3, C_{14})} \\
& +A_7^+ C_{14}^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_3^+ C_{14}^+ \Phi_{(D_3,)} \\
& +A_7^+ C_{14}^+ D_3^+ \Phi_{(B_3,)} \\
& +A_7^+ B_3^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_3, C_{15}, D_9)} = \\
& +B_3^+ \Phi_{(A_7, C_{15}, D_9)} \\
& +A_7^+ C_{15}^+ D_9^+ \Phi_{(B_3,)}
\end{aligned}$$

$$+A_7^+ B_3^+ C_{15}^+ D_9^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_3, C_{15}, D_{10})} =$$

$$+B_3^+ \Phi_{(A_7, C_{15}, D_{10})}$$

$$+A_7^+ C_{15}^+ D_{10}^+ \Phi_{(B_3,)}$$

$$+A_7^+ B_3^+ C_{15}^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_4, C_5, D_{13})} =$$

$$+A_7^+ D_{13}^+ \Phi_{(B_4, C_5)}$$

$$+B_4^+ C_5^+ \Phi_{(A_7, D_{13})}$$

$$+A_7^+ B_4^+ C_5^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_4, C_5, D_{14})} =$$

$$+A_7^+ D_{14}^+ \Phi_{(B_4, C_5)}$$

$$+B_4^+ C_5^+ \Phi_{(A_7, D_{14})}$$

$$+A_7^+ B_4^+ C_5^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_4, C_{13}, D_5)} =$$

$$+A_7^+ C_{13}^+ \Phi_{(B_4, D_5)}$$

$$+B_4^+ D_5^+ \Phi_{(A_7, C_{13})}$$

$$+A_7^+ B_4^+ C_{13}^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_4, C_{14}, D_5)} =$$

$$+A_7^+ C_{14}^+ \Phi_{(B_4, D_5)}$$

$$+B_4^+ D_5^+ \Phi_{(A_7, C_{14})}$$

$$+A_7^+ B_4^+ C_{14}^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_5, C_1, D_{11})} =$$

$$+C_1^+ \Phi_{(A_7, B_5, D_{11})}$$

$$\begin{aligned}
& +A_7^+ B_5^+ D_{11}^+ \Phi_{(C_1,)} \\
& +A_7^+ B_5^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_1, D_{12})} = \\
& +C_1^+ \Phi_{(A_7, B_5, D_{12})} \\
& +A_7^+ B_5^+ D_{12}^+ \Phi_{(C_1,)} \\
& +A_7^+ B_5^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_2, D_{11})} = \\
& +C_2^+ \Phi_{(A_7, B_5, D_{11})} \\
& +A_7^+ B_5^+ D_{11}^+ \Phi_{(C_2,)} \\
& +A_7^+ B_5^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_2, D_{12})} = \\
& +C_2^+ \Phi_{(A_7, B_5, D_{12})} \\
& +A_7^+ B_5^+ D_{12}^+ \Phi_{(C_2,)} \\
& +A_7^+ B_5^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_3, D_{11})} = \\
& +C_3^+ \Phi_{(A_7, B_5, D_{11})} \\
& +A_7^+ B_5^+ D_{11}^+ \Phi_{(C_3,)} \\
& +A_7^+ B_5^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_3, D_{12})} = \\
& +C_3^+ \Phi_{(A_7, B_5, D_{12})} \\
& +A_7^+ B_5^+ D_{12}^+ \Phi_{(C_3,)} \\
& +A_7^+ B_5^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_7, B_5, C_4, D_{13})} =$$

$$\begin{aligned}
& +A_7^+ D_{13}^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_7, D_{13})} \\
& +A_7^+ B_5^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_4, D_{14})} = \\
& +A_7^+ D_{14}^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_7, D_{14})} \\
& +A_7^+ B_5^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_7, D_{15})} = \\
& +A_7^+ B_5^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_8, D_{15})} = \\
& +A_7^+ B_5^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_{11}, D_1)} = \\
& +D_1^+ \Phi_{(A_7, B_5, C_{11})} \\
& +A_7^+ B_5^+ C_{11}^+ \Phi_{(D_1,)} \\
& +A_7^+ B_5^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_{11}, D_2)} = \\
& +D_2^+ \Phi_{(A_7, B_5, C_{11})} \\
& +A_7^+ B_5^+ C_{11}^+ \Phi_{(D_2,)} \\
& +A_7^+ B_5^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_5, C_{11}, D_3)} = \\
& +D_3^+ \Phi_{(A_7, B_5, C_{11})} \\
& +A_7^+ B_5^+ C_{11}^+ \Phi_{(D_3,)} \\
& +A_7^+ B_5^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_5, C_{12}, D_1)} = \\
&+ D_1^+ \Phi_{(A_7, B_5, C_{12})} \\
&+ A_7^+ B_5^+ C_{12}^+ \Phi_{(D_1,)} \\
&+ A_7^+ B_5^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_5, C_{12}, D_2)} = \\
&+ D_2^+ \Phi_{(A_7, B_5, C_{12})} \\
&+ A_7^+ B_5^+ C_{12}^+ \Phi_{(D_2,)} \\
&+ A_7^+ B_5^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_5, C_{12}, D_3)} = \\
&+ D_3^+ \Phi_{(A_7, B_5, C_{12})} \\
&+ A_7^+ B_5^+ C_{12}^+ \Phi_{(D_3,)} \\
&+ A_7^+ B_5^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_5, C_{13}, D_4)} = \\
&+ A_7^+ C_{13}^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_7, C_{13})} \\
&+ A_7^+ B_5^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_5, C_{14}, D_4)} = \\
&+ A_7^+ C_{14}^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_7, C_{14})} \\
&+ A_7^+ B_5^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_5, C_{15}, D_7)} = \\
&+ A_7^+ B_5^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_5, C_{15}, D_8)} = \\ + A_7^+ B_5^+ C_{15}^+ D_8^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_6, C_{13}, D_{15})} = \\ + A_7^+ C_{13}^+ \Phi_{(B_6, D_{15})} \\ + B_6^+ D_{15}^+ \Phi_{(A_7, C_{13})} \\ + A_7^+ B_6^+ C_{13}^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_6, C_{14}, D_{15})} = \\ + A_7^+ C_{14}^+ \Phi_{(B_6, D_{15})} \\ + B_6^+ D_{15}^+ \Phi_{(A_7, C_{14})} \\ + A_7^+ B_6^+ C_{14}^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_6, C_{15}, D_{13})} = \\ + A_7^+ D_{13}^+ \Phi_{(B_6, C_{15})} \\ + B_6^+ C_{15}^+ \Phi_{(A_7, D_{13})} \\ + A_7^+ B_6^+ C_{15}^+ D_{13}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_6, C_{15}, D_{14})} = \\ + A_7^+ D_{14}^+ \Phi_{(B_6, C_{15})} \\ + B_6^+ C_{15}^+ \Phi_{(A_7, D_{14})} \\ + A_7^+ B_6^+ C_{15}^+ D_{14}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_7, C_5, D_{15})} = \\ + A_7^+ B_7^+ C_5^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_7, C_{13}, D_{13})} = \\ - A_7^+ C_{13}^+ \Phi_{(B_7, D_{13})} \\ + A_7^+ D_{13}^+ \Phi_{(B_7, C_{13})}\end{aligned}$$

$$\begin{aligned}
& +B_7^+ C_{13}^+ \Phi_{(A_7, D_{13})} \\
& -B_7^+ D_{13}^+ \Phi_{(A_7, C_{13})} \\
& +A_7^+ B_7^+ C_{13}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_7, C_{13}, D_{14})} = \\
& -A_7^+ C_{13}^+ \Phi_{(B_7, D_{14})} \\
& +A_7^+ D_{14}^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_7, D_{14})} \\
& -B_7^+ D_{14}^+ \Phi_{(A_7, C_{13})} \\
& +A_7^+ B_7^+ C_{13}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_7, C_{14}, D_{13})} = \\
& -A_7^+ C_{14}^+ \Phi_{(B_7, D_{13})} \\
& +A_7^+ D_{13}^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_7, D_{13})} \\
& -B_7^+ D_{13}^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_7^+ C_{14}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_7, C_{14}, D_{14})} = \\
& -A_7^+ C_{14}^+ \Phi_{(B_7, D_{14})} \\
& +A_7^+ D_{14}^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_7, D_{14})} \\
& -B_7^+ D_{14}^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_7^+ C_{14}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_7, C_{15}, D_5)} = \\
& +A_7^+ B_7^+ C_{15}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_7, B_8, C_5, D_{15})} =$$

$$+A_7^+ B_8^+ C_5^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_8, C_{13}, D_{13})} =$$

$$-A_7^+ C_{13}^+ \Phi_{(B_8, D_{13})}$$

$$+A_7^+ D_{13}^+ \Phi_{(B_8, C_{13})}$$

$$+B_8^+ C_{13}^+ \Phi_{(A_7, D_{13})}$$

$$-B_8^+ D_{13}^+ \Phi_{(A_7, C_{13})}$$

$$+A_7^+ B_8^+ C_{13}^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_8, C_{13}, D_{14})} =$$

$$-A_7^+ C_{13}^+ \Phi_{(B_8, D_{14})}$$

$$+A_7^+ D_{14}^+ \Phi_{(B_8, C_{13})}$$

$$+B_8^+ C_{13}^+ \Phi_{(A_7, D_{14})}$$

$$-B_8^+ D_{14}^+ \Phi_{(A_7, C_{13})}$$

$$+A_7^+ B_8^+ C_{13}^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_8, C_{14}, D_{13})} =$$

$$-A_7^+ C_{14}^+ \Phi_{(B_8, D_{13})}$$

$$+A_7^+ D_{13}^+ \Phi_{(B_8, C_{14})}$$

$$+B_8^+ C_{14}^+ \Phi_{(A_7, D_{13})}$$

$$-B_8^+ D_{13}^+ \Phi_{(A_7, C_{14})}$$

$$+A_7^+ B_8^+ C_{14}^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_8, C_{14}, D_{14})} =$$

$$-A_7^+ C_{14}^+ \Phi_{(B_8, D_{14})}$$

$$+A_7^+ D_{14}^+ \Phi_{(B_8, C_{14})}$$

$$+B_8^+ C_{14}^+ \Phi_{(A_7, D_{14})}$$

$$-B_8^+ D_{14}^+ \Phi_{(A_7, C_{14})}$$

$$+A_7^+ B_8^+ C_{14}^+ D_{14}^+ \Phi_{()} \\$$

$$\begin{aligned}\Phi_{(A_7, B_8, C_{15}, D_5)} = \\ + A_7^+ B_8^+ C_{15}^+ D_5^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_9, C_1, D_{15})} = \\ + C_1^+ \Phi_{(A_7, B_9, D_{15})} \\ + A_7^+ B_9^+ D_{15}^+ \Phi_{(C_1,)} \\ + A_7^+ B_9^+ C_1^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_9, C_2, D_{15})} = \\ + C_2^+ \Phi_{(A_7, B_9, D_{15})} \\ + A_7^+ B_9^+ D_{15}^+ \Phi_{(C_2,)} \\ + A_7^+ B_9^+ C_2^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_9, C_3, D_{15})} = \\ + C_3^+ \Phi_{(A_7, B_9, D_{15})} \\ + A_7^+ B_9^+ D_{15}^+ \Phi_{(C_3,)} \\ + A_7^+ B_9^+ C_3^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_9, C_{11}, D_{13})} = \\ + A_7^+ D_{13}^+ \Phi_{(B_9, C_{11})} \\ + B_9^+ C_{11}^+ \Phi_{(A_7, D_{13})} \\ + A_7^+ B_9^+ C_{11}^+ D_{13}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_7, B_9, C_{11}, D_{14})} = \\ + A_7^+ D_{14}^+ \Phi_{(B_9, C_{11})} \\ + B_9^+ C_{11}^+ \Phi_{(A_7, D_{14})} \\ + A_7^+ B_9^+ C_{11}^+ D_{14}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_9, C_{12}, D_{13})} = & \\
& + A_7^+ D_{13}^+ \Phi_{(B_9, C_{12})} \\
& + B_9^+ C_{12}^+ \Phi_{(A_7, D_{13})} \\
& + A_7^+ B_9^+ C_{12}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_9, C_{12}, D_{14})} = & \\
& + A_7^+ D_{14}^+ \Phi_{(B_9, C_{12})} \\
& + B_9^+ C_{12}^+ \Phi_{(A_7, D_{14})} \\
& + A_7^+ B_9^+ C_{12}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_9, C_{13}, D_{11})} = & \\
& - A_7^+ C_{13}^+ \Phi_{(B_9, D_{11})} \\
& - B_9^+ D_{11}^+ \Phi_{(A_7, C_{13})} \\
& + A_7^+ B_9^+ C_{13}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_9, C_{13}, D_{12})} = & \\
& - A_7^+ C_{13}^+ \Phi_{(B_9, D_{12})} \\
& - B_9^+ D_{12}^+ \Phi_{(A_7, C_{13})} \\
& + A_7^+ B_9^+ C_{13}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_9, C_{14}, D_{11})} = & \\
& - A_7^+ C_{14}^+ \Phi_{(B_9, D_{11})} \\
& - B_9^+ D_{11}^+ \Phi_{(A_7, C_{14})} \\
& + A_7^+ B_9^+ C_{14}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_9, C_{14}, D_{12})} = & \\
& - A_7^+ C_{14}^+ \Phi_{(B_9, D_{12})} \\
& - B_9^+ D_{12}^+ \Phi_{(A_7, C_{14})} \\
& + A_7^+ B_9^+ C_{14}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_9, C_{15}, D_1)} = \\
&+ D_1^+ \Phi_{(A_7, B_9, C_{15})} \\
&+ A_7^+ B_9^+ C_{15}^+ \Phi_{(D_1,)} \\
&+ A_7^+ B_9^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_9, C_{15}, D_2)} = \\
&+ D_2^+ \Phi_{(A_7, B_9, C_{15})} \\
&+ A_7^+ B_9^+ C_{15}^+ \Phi_{(D_2,)} \\
&+ A_7^+ B_9^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_9, C_{15}, D_3)} = \\
&+ D_3^+ \Phi_{(A_7, B_9, C_{15})} \\
&+ A_7^+ B_9^+ C_{15}^+ \Phi_{(D_3,)} \\
&+ A_7^+ B_9^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{10}, C_1, D_{15})} = \\
&+ C_1^+ \Phi_{(A_7, B_{10}, D_{15})} \\
&+ A_7^+ B_{10}^+ D_{15}^+ \Phi_{(C_1,)} \\
&+ A_7^+ B_{10}^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{10}, C_2, D_{15})} = \\
&+ C_2^+ \Phi_{(A_7, B_{10}, D_{15})} \\
&+ A_7^+ B_{10}^+ D_{15}^+ \Phi_{(C_2,)} \\
&+ A_7^+ B_{10}^+ C_2^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{10}, C_3, D_{15})} = \\
&+ C_3^+ \Phi_{(A_7, B_{10}, D_{15})} \\
&+ A_7^+ B_{10}^+ D_{15}^+ \Phi_{(C_3,)}
\end{aligned}$$

$$+A_7^+ B_{10}^+ C_3^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{10}, C_{11}, D_{13})} =$$

$$+A_7^+ D_{13}^+ \Phi_{(B_{10}, C_{11})}$$

$$+B_{10}^+ C_{11}^+ \Phi_{(A_7, D_{13})}$$

$$+A_7^+ B_{10}^+ C_{11}^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{10}, C_{11}, D_{14})} =$$

$$+A_7^+ D_{14}^+ \Phi_{(B_{10}, C_{11})}$$

$$+B_{10}^+ C_{11}^+ \Phi_{(A_7, D_{14})}$$

$$+A_7^+ B_{10}^+ C_{11}^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{10}, C_{12}, D_{13})} =$$

$$+A_7^+ D_{13}^+ \Phi_{(B_{10}, C_{12})}$$

$$+B_{10}^+ C_{12}^+ \Phi_{(A_7, D_{13})}$$

$$+A_7^+ B_{10}^+ C_{12}^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{10}, C_{12}, D_{14})} =$$

$$+A_7^+ D_{14}^+ \Phi_{(B_{10}, C_{12})}$$

$$+B_{10}^+ C_{12}^+ \Phi_{(A_7, D_{14})}$$

$$+A_7^+ B_{10}^+ C_{12}^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{10}, C_{13}, D_{11})} =$$

$$-A_7^+ C_{13}^+ \Phi_{(B_{10}, D_{11})}$$

$$-B_{10}^+ D_{11}^+ \Phi_{(A_7, C_{13})}$$

$$+A_7^+ B_{10}^+ C_{13}^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{10}, C_{13}, D_{12})} =$$

$$-A_7^+ C_{13}^+ \Phi_{(B_{10}, D_{12})}$$

$$\begin{aligned}
& -B_{10}^+ D_{12}^+ \Phi_{(A_7, C_{13})} \\
& + A_7^+ B_{10}^+ C_{13}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{10}, C_{14}, D_{11})} = \\
& -A_7^+ C_{14}^+ \Phi_{(B_{10}, D_{11})} \\
& -B_{10}^+ D_{11}^+ \Phi_{(A_7, C_{14})} \\
& + A_7^+ B_{10}^+ C_{14}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{10}, C_{14}, D_{12})} = \\
& -A_7^+ C_{14}^+ \Phi_{(B_{10}, D_{12})} \\
& -B_{10}^+ D_{12}^+ \Phi_{(A_7, C_{14})} \\
& + A_7^+ B_{10}^+ C_{14}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{10}, C_{15}, D_1)} = \\
& + D_1^+ \Phi_{(A_7, B_{10}, C_{15})} \\
& + A_7^+ B_{10}^+ C_{15}^+ \Phi_{(D_1,)} \\
& + A_7^+ B_{10}^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{10}, C_{15}, D_2)} = \\
& + D_2^+ \Phi_{(A_7, B_{10}, C_{15})} \\
& + A_7^+ B_{10}^+ C_{15}^+ \Phi_{(D_2,)} \\
& + A_7^+ B_{10}^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{10}, C_{15}, D_3)} = \\
& + D_3^+ \Phi_{(A_7, B_{10}, C_{15})} \\
& + A_7^+ B_{10}^+ C_{15}^+ \Phi_{(D_3,)} \\
& + A_7^+ B_{10}^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_7, B_{11}, C_1, D_5)} =$$

$$\begin{aligned}
& +C_1^+ \Phi_{(A_7, B_{11}, D_5)} \\
& +A_7^+ B_{11}^+ D_5^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{11}^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{11}, C_2, D_5)} = \\
& +C_2^+ \Phi_{(A_7, B_{11}, D_5)} \\
& +A_7^+ B_{11}^+ D_5^+ \Phi_{(C_2,)} \\
& +A_7^+ B_{11}^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{11}, C_3, D_5)} = \\
& +C_3^+ \Phi_{(A_7, B_{11}, D_5)} \\
& +A_7^+ B_{11}^+ D_5^+ \Phi_{(C_3,)} \\
& +A_7^+ B_{11}^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{11}, C_5, D_1)} = \\
& +D_1^+ \Phi_{(A_7, B_{11}, C_5)} \\
& +A_7^+ B_{11}^+ C_5^+ \Phi_{(D_1,)} \\
& +A_7^+ B_{11}^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{11}, C_5, D_2)} = \\
& +D_2^+ \Phi_{(A_7, B_{11}, C_5)} \\
& +A_7^+ B_{11}^+ C_5^+ \Phi_{(D_2,)} \\
& +A_7^+ B_{11}^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{11}, C_5, D_3)} = \\
& +D_3^+ \Phi_{(A_7, B_{11}, C_5)} \\
& +A_7^+ B_{11}^+ C_5^+ \Phi_{(D_3,)} \\
& +A_7^+ B_{11}^+ C_5^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{11}, C_9, D_{13})} = \\
&+ A_7^+ D_{13}^+ \Phi_{(B_{11}, C_9)} \\
&+ B_{11}^+ C_9^+ \Phi_{(A_7, D_{13})} \\
&+ A_7^+ B_{11}^+ C_9^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{11}, C_9, D_{14})} = \\
&+ A_7^+ D_{14}^+ \Phi_{(B_{11}, C_9)} \\
&+ B_{11}^+ C_9^+ \Phi_{(A_7, D_{14})} \\
&+ A_7^+ B_{11}^+ C_9^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{11}, C_{10}, D_{13})} = \\
&+ A_7^+ D_{13}^+ \Phi_{(B_{11}, C_{10})} \\
&+ B_{11}^+ C_{10}^+ \Phi_{(A_7, D_{13})} \\
&+ A_7^+ B_{11}^+ C_{10}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{11}, C_{10}, D_{14})} = \\
&+ A_7^+ D_{14}^+ \Phi_{(B_{11}, C_{10})} \\
&+ B_{11}^+ C_{10}^+ \Phi_{(A_7, D_{14})} \\
&+ A_7^+ B_{11}^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{11}, C_{13}, D_9)} = \\
&- A_7^+ C_{13}^+ \Phi_{(B_{11}, D_9)} \\
&- B_{11}^+ D_9^+ \Phi_{(A_7, C_{13})} \\
&+ A_7^+ B_{11}^+ C_{13}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{11}, C_{13}, D_{10})} = \\
&- A_7^+ C_{13}^+ \Phi_{(B_{11}, D_{10})} \\
&- B_{11}^+ D_{10}^+ \Phi_{(A_7, C_{13})} \\
&+ A_7^+ B_{11}^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{11}, C_{14}, D_9)} = & \\
& -A_7^+ C_{14}^+ \Phi_{(B_{11}, D_9)} \\
& -B_{11}^+ D_9^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_{11}^+ C_{14}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{11}, C_{14}, D_{10})} = & \\
& -A_7^+ C_{14}^+ \Phi_{(B_{11}, D_{10})} \\
& -B_{11}^+ D_{10}^+ \Phi_{(A_7, C_{14})} \\
& +A_7^+ B_{11}^+ C_{14}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{12}, C_1, D_5)} = & \\
& +C_1^+ \Phi_{(A_7, B_{12}, D_5)} \\
& +A_7^+ B_{12}^+ D_5^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{12}^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{12}, C_2, D_5)} = & \\
& +C_2^+ \Phi_{(A_7, B_{12}, D_5)} \\
& +A_7^+ B_{12}^+ D_5^+ \Phi_{(C_2,)} \\
& +A_7^+ B_{12}^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{12}, C_3, D_5)} = & \\
& +C_3^+ \Phi_{(A_7, B_{12}, D_5)} \\
& +A_7^+ B_{12}^+ D_5^+ \Phi_{(C_3,)} \\
& +A_7^+ B_{12}^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{12}, C_5, D_1)} = & \\
& +D_1^+ \Phi_{(A_7, B_{12}, C_5)} \\
& +A_7^+ B_{12}^+ C_5^+ \Phi_{(D_1,)}
\end{aligned}$$

$$+A_7^+ B_{12}^+ C_5^+ D_1^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_7, B_{12}, C_5, D_2)} = \\ +D_2^+ \Phi_{(A_7, B_{12}, C_5)} \\ +A_7^+ B_{12}^+ C_5^+ \Phi_{(D_2,)} \\ +A_7^+ B_{12}^+ C_5^+ D_2^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{12}, C_5, D_3)} = \\ +D_3^+ \Phi_{(A_7, B_{12}, C_5)} \\ +A_7^+ B_{12}^+ C_5^+ \Phi_{(D_3,)} \\ +A_7^+ B_{12}^+ C_5^+ D_3^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{12}, C_9, D_{13})} = \\ +A_7^+ D_{13}^+ \Phi_{(B_{12}, C_9)} \\ +B_{12}^+ C_9^+ \Phi_{(A_7, D_{13})} \\ +A_7^+ B_{12}^+ C_9^+ D_{13}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{12}, C_9, D_{14})} = \\ +A_7^+ D_{14}^+ \Phi_{(B_{12}, C_9)} \\ +B_{12}^+ C_9^+ \Phi_{(A_7, D_{14})} \\ +A_7^+ B_{12}^+ C_9^+ D_{14}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{12}, C_{10}, D_{13})} = \\ +A_7^+ D_{13}^+ \Phi_{(B_{12}, C_{10})} \\ +B_{12}^+ C_{10}^+ \Phi_{(A_7, D_{13})} \\ +A_7^+ B_{12}^+ C_{10}^+ D_{13}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{12}, C_{10}, D_{14})} = \\ +A_7^+ D_{14}^+ \Phi_{(B_{12}, C_{10})} \end{aligned}$$

$$\begin{aligned}
& +B_{12}^+C_{10}^+\Phi_{(A_7,D_{14})} \\
& +A_7^+B_{12}^+C_{10}^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7,B_{12},C_{13},D_9)} = \\
& -A_7^+C_{13}^+\Phi_{(B_{12},D_9)} \\
& -B_{12}^+D_9^+\Phi_{(A_7,C_{13})} \\
& +A_7^+B_{12}^+C_{13}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7,B_{12},C_{13},D_{10})} = \\
& -A_7^+C_{13}^+\Phi_{(B_{12},D_{10})} \\
& -B_{12}^+D_{10}^+\Phi_{(A_7,C_{13})} \\
& +A_7^+B_{12}^+C_{13}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7,B_{12},C_{14},D_9)} = \\
& -A_7^+C_{14}^+\Phi_{(B_{12},D_9)} \\
& -B_{12}^+D_9^+\Phi_{(A_7,C_{14})} \\
& +A_7^+B_{12}^+C_{14}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7,B_{12},C_{14},D_{10})} = \\
& -A_7^+C_{14}^+\Phi_{(B_{12},D_{10})} \\
& -B_{12}^+D_{10}^+\Phi_{(A_7,C_{14})} \\
& +A_7^+B_{12}^+C_{14}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7,B_{13},C_1,D_1)} = \\
& +C_1^+\Phi_{(A_7,B_{13},D_1)} \\
& +D_1^+\Phi_{(A_7,B_{13},C_1)} \\
& +A_7^+B_{13}^+\Phi_{(C_1,D_1)} \\
& +C_1^+D_1^+\Phi_{(A_7,B_{13})} \\
& +A_7^+B_{13}^+C_1^+\Phi_{(D_1,)}
\end{aligned}$$

$$\begin{aligned}
& +A_7^+ B_{13}^+ D_1^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{13}^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_1, D_2)} = & \\
& +C_1^+ \Phi_{(A_7, B_{13}, D_2)} \\
& +D_2^+ \Phi_{(A_7, B_{13}, C_1)} \\
& +A_7^+ B_{13}^+ \Phi_{(C_1, D_2)} \\
& +C_1^+ D_2^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_1^+ \Phi_{(D_2,)} \\
& +A_7^+ B_{13}^+ D_2^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{13}^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_1, D_3)} = & \\
& +C_1^+ \Phi_{(A_7, B_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_7, B_{13}, C_1)} \\
& +A_7^+ B_{13}^+ \Phi_{(C_1, D_3)} \\
& +C_1^+ D_3^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_1^+ \Phi_{(D_3,)} \\
& +A_7^+ B_{13}^+ D_3^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{13}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_2, D_1)} = & \\
& +C_2^+ \Phi_{(A_7, B_{13}, D_1)} \\
& +D_1^+ \Phi_{(A_7, B_{13}, C_2)} \\
& +A_7^+ B_{13}^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_2^+ \Phi_{(D_1,)} \\
& +A_7^+ B_{13}^+ D_1^+ \Phi_{(C_2,)} \\
& +A_7^+ B_{13}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{13}, C_2, D_2)} = \\
&+C_2^+ \Phi_{(A_7, B_{13}, D_2)} \\
&+D_2^+ \Phi_{(A_7, B_{13}, C_2)} \\
&+A_7^+ B_{13}^+ \Phi_{(C_2, D_2)} \\
&+C_2^+ D_2^+ \Phi_{(A_7, B_{13})} \\
&+A_7^+ B_{13}^+ C_2^+ \Phi_{(D_2,)} \\
&+A_7^+ B_{13}^+ D_2^+ \Phi_{(C_2,)} \\
&+A_7^+ B_{13}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{13}, C_2, D_3)} = \\
&+C_2^+ \Phi_{(A_7, B_{13}, D_3)} \\
&+D_3^+ \Phi_{(A_7, B_{13}, C_2)} \\
&+A_7^+ B_{13}^+ \Phi_{(C_2, D_3)} \\
&+C_2^+ D_3^+ \Phi_{(A_7, B_{13})} \\
&+A_7^+ B_{13}^+ C_2^+ \Phi_{(D_3,)} \\
&+A_7^+ B_{13}^+ D_3^+ \Phi_{(C_2,)} \\
&+A_7^+ B_{13}^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{13}, C_3, D_1)} = \\
&+C_3^+ \Phi_{(A_7, B_{13}, D_1)} \\
&+D_1^+ \Phi_{(A_7, B_{13}, C_3)} \\
&+A_7^+ B_{13}^+ \Phi_{(C_3, D_1)} \\
&+C_3^+ D_1^+ \Phi_{(A_7, B_{13})} \\
&+A_7^+ B_{13}^+ C_3^+ \Phi_{(D_1,)} \\
&+A_7^+ B_{13}^+ D_1^+ \Phi_{(C_3,)} \\
&+A_7^+ B_{13}^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_7, B_{13}, C_3, D_2)} =$$

$$\begin{aligned}
& +C_3^+ \Phi_{(A_7, B_{13}, D_2)} \\
& +D_2^+ \Phi_{(A_7, B_{13}, C_3)} \\
& +A_7^+ B_{13}^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_3^+ \Phi_{(D_2,)} \\
& +A_7^+ B_{13}^+ D_2^+ \Phi_{(C_3,)} \\
& +A_7^+ B_{13}^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{13}, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_7, B_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_7, B_{13}, C_3)} \\
& +A_7^+ B_{13}^+ \Phi_{(C_3, D_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_3^+ \Phi_{(D_3,)} \\
& +A_7^+ B_{13}^+ D_3^+ \Phi_{(C_3,)} \\
& +A_7^+ B_{13}^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{13}, C_4, D_5)} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{13}, C_5, D_4)} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{13}, C_6, D_{15})} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_6, D_{15})}
\end{aligned}$$

$$\begin{aligned}
& +C_6^+ D_{15}^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_7, D_{13})} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_7, D_{13})} \\
& +A_7^+ D_{13}^+ \Phi_{(B_{13}, C_7)} \\
& +B_{13}^+ C_7^+ \Phi_{(A_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_7, D_{14})} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_7, D_{14})} \\
& +A_7^+ D_{14}^+ \Phi_{(B_{13}, C_7)} \\
& +B_{13}^+ C_7^+ \Phi_{(A_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_8, D_{13})} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_8, D_{13})} \\
& +A_7^+ D_{13}^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_7, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_8, D_{14})} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_8, D_{14})} \\
& +A_7^+ D_{14}^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_7, D_{14})} \\
& +C_8^+ D_{14}^+ \Phi_{(A_7, B_{13})}
\end{aligned}$$

$$+A_7^+ B_{13}^+ C_8^+ D_{14}^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{13}, C_9, D_{11})} =$$

$$+A_7^+ B_{13}^+ \Phi_{(C_9, D_{11})}$$

$$+C_9^+ D_{11}^+ \Phi_{(A_7, B_{13})}$$

$$+A_7^+ B_{13}^+ C_9^+ D_{11}^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{13}, C_9, D_{12})} =$$

$$+A_7^+ B_{13}^+ \Phi_{(C_9, D_{12})}$$

$$+C_9^+ D_{12}^+ \Phi_{(A_7, B_{13})}$$

$$+A_7^+ B_{13}^+ C_9^+ D_{12}^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{13}, C_{10}, D_{11})} =$$

$$+A_7^+ B_{13}^+ \Phi_{(C_{10}, D_{11})}$$

$$+C_{10}^+ D_{11}^+ \Phi_{(A_7, B_{13})}$$

$$+A_7^+ B_{13}^+ C_{10}^+ D_{11}^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{13}, C_{10}, D_{12})} =$$

$$+A_7^+ B_{13}^+ \Phi_{(C_{10}, D_{12})}$$

$$+C_{10}^+ D_{12}^+ \Phi_{(A_7, B_{13})}$$

$$+A_7^+ B_{13}^+ C_{10}^+ D_{12}^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{13}, C_{11}, D_9)} =$$

$$+A_7^+ B_{13}^+ \Phi_{(C_{11}, D_9)}$$

$$+C_{11}^+ D_9^+ \Phi_{(A_7, B_{13})}$$

$$+A_7^+ B_{13}^+ C_{11}^+ D_9^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{13}, C_{11}, D_{10})} =$$

$$+A_7^+ B_{13}^+ \Phi_{(C_{11}, D_{10})}$$

$$\begin{aligned}
& +C_{11}^+ D_{10}^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_{12}, D_9)} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_{12}, D_9)} \\
& +C_{12}^+ D_9^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_{12}, D_{10})} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_{12}, D_{10})} \\
& +C_{12}^+ D_{10}^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_{13}, D_7)} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_{13}, D_7)} \\
& -A_7^+ C_{13}^+ \Phi_{(B_{13}, D_7)} \\
& -B_{13}^+ D_7^+ \Phi_{(A_7, C_{13})} \\
& +C_{13}^+ D_7^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_{13}, D_8)} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_{13}, D_8)} \\
& -A_7^+ C_{13}^+ \Phi_{(B_{13}, D_8)} \\
& -B_{13}^+ D_8^+ \Phi_{(A_7, C_{13})} \\
& +C_{13}^+ D_8^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{13}, C_{14}, D_7)} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_{14}, D_7)}
\end{aligned}$$

$$\begin{aligned}
& -A_7^+ C_{14}^+ \Phi_{(B_{13}, D_7)} \\
& -B_{13}^+ D_7^+ \Phi_{(A_7, C_{14})} \\
& +C_{14}^+ D_7^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{13}, C_{14}, D_8)} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_{14}, D_8)} \\
& -A_7^+ C_{14}^+ \Phi_{(B_{13}, D_8)} \\
& -B_{13}^+ D_8^+ \Phi_{(A_7, C_{14})} \\
& +C_{14}^+ D_8^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{13}, C_{15}, D_6)} = \\
& +A_7^+ B_{13}^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_7, B_{13})} \\
& +A_7^+ B_{13}^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{14}, C_1, D_1)} = \\
& +C_1^+ \Phi_{(A_7, B_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_7, B_{14}, C_1)} \\
& +A_7^+ B_{14}^+ \Phi_{(C_1, D_1)} \\
& +C_1^+ D_1^+ \Phi_{(A_7, B_{14})} \\
& +A_7^+ B_{14}^+ C_1^+ \Phi_{(D_1,)} \\
& +A_7^+ B_{14}^+ D_1^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{14}^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{14}, C_1, D_2)} = \\
& +C_1^+ \Phi_{(A_7, B_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_7, B_{14}, C_1)}
\end{aligned}$$

$$\begin{aligned}
& +A_7^+ B_{14}^+ \Phi_{(C_1, D_2)} \\
& +C_1^+ D_2^+ \Phi_{(A_7, B_{14})} \\
& +A_7^+ B_{14}^+ C_1^+ \Phi_{(D_2,)} \\
& +A_7^+ B_{14}^+ D_2^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{14}^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{14}, C_1, D_3)} = \\
& +C_1^+ \Phi_{(A_7, B_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_7, B_{14}, C_1)} \\
& +A_7^+ B_{14}^+ \Phi_{(C_1, D_3)} \\
& +C_1^+ D_3^+ \Phi_{(A_7, B_{14})} \\
& +A_7^+ B_{14}^+ C_1^+ \Phi_{(D_3,)} \\
& +A_7^+ B_{14}^+ D_3^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{14}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{14}, C_2, D_1)} = \\
& +C_2^+ \Phi_{(A_7, B_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_7, B_{14}, C_2)} \\
& +A_7^+ B_{14}^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_7, B_{14})} \\
& +A_7^+ B_{14}^+ C_2^+ \Phi_{(D_1,)} \\
& +A_7^+ B_{14}^+ D_1^+ \Phi_{(C_2,)} \\
& +A_7^+ B_{14}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{14}, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_7, B_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_7, B_{14}, C_2)} \\
& +A_7^+ B_{14}^+ \Phi_{(C_2, D_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_7, B_{14})}
\end{aligned}$$

$$\begin{aligned}
& +A_7^+ B_{14}^+ C_2^+ \Phi_{(D_2,)} \\
& +A_7^+ B_{14}^+ D_2^+ \Phi_{(C_2,)} \\
& +A_7^+ B_{14}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{14}, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_7, B_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_7, B_{14}, C_2)} \\
& +A_7^+ B_{14}^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_7, B_{14})} \\
& +A_7^+ B_{14}^+ C_2^+ \Phi_{(D_3,)} \\
& +A_7^+ B_{14}^+ D_3^+ \Phi_{(C_2,)} \\
& +A_7^+ B_{14}^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{14}, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_7, B_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_7, B_{14}, C_3)} \\
& +A_7^+ B_{14}^+ \Phi_{(C_3, D_1)} \\
& +C_3^+ D_1^+ \Phi_{(A_7, B_{14})} \\
& +A_7^+ B_{14}^+ C_3^+ \Phi_{(D_1,)} \\
& +A_7^+ B_{14}^+ D_1^+ \Phi_{(C_3,)} \\
& +A_7^+ B_{14}^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7, B_{14}, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_7, B_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_7, B_{14}, C_3)} \\
& +A_7^+ B_{14}^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_7, B_{14})} \\
& +A_7^+ B_{14}^+ C_3^+ \Phi_{(D_2,)} \\
& +A_7^+ B_{14}^+ D_2^+ \Phi_{(C_3,)}
\end{aligned}$$

$$+A_7^+ B_{14}^+ C_3^+ D_2^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_7, B_{14}, C_3, D_3)} = \\ +C_3^+ \Phi_{(A_7, B_{14}, D_3)} \\ +D_3^+ \Phi_{(A_7, B_{14}, C_3)} \\ +A_7^+ B_{14}^+ \Phi_{(C_3, D_3)} \\ +C_3^+ D_3^+ \Phi_{(A_7, B_{14})} \\ +A_7^+ B_{14}^+ C_3^+ \Phi_{(D_3,)} \\ +A_7^+ B_{14}^+ D_3^+ \Phi_{(C_3,)} \\ +A_7^+ B_{14}^+ C_3^+ D_3^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{14}, C_4, D_5)} = \\ +A_7^+ B_{14}^+ \Phi_{(C_4, D_5)} \\ +C_4^+ D_5^+ \Phi_{(A_7, B_{14})} \\ +A_7^+ B_{14}^+ C_4^+ D_5^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{14}, C_5, D_4)} = \\ +A_7^+ B_{14}^+ \Phi_{(C_5, D_4)} \\ +C_5^+ D_4^+ \Phi_{(A_7, B_{14})} \\ +A_7^+ B_{14}^+ C_5^+ D_4^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{14}, C_6, D_{15})} = \\ +A_7^+ B_{14}^+ \Phi_{(C_6, D_{15})} \\ +C_6^+ D_{15}^+ \Phi_{(A_7, B_{14})} \\ +A_7^+ B_{14}^+ C_6^+ D_{15}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{14}, C_7, D_{13})} = \\ +A_7^+ B_{14}^+ \Phi_{(C_7, D_{13})} \\ +A_7^+ D_{13}^+ \Phi_{(B_{14}, C_7)} \end{aligned}$$

$$\begin{aligned}
& +B_{14}^+C_7^+\Phi_{(A_7,D_{13})} \\
& +C_7^+D_{13}^+\Phi_{(A_7,B_{14})} \\
& +A_7^+B_{14}^+C_7^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7,B_{14},C_7,D_{14})} = \\
& +A_7^+B_{14}^+\Phi_{(C_7,D_{14})} \\
& +A_7^+D_{14}^+\Phi_{(B_{14},C_7)} \\
& +B_{14}^+C_7^+\Phi_{(A_7,D_{14})} \\
& +C_7^+D_{14}^+\Phi_{(A_7,B_{14})} \\
& +A_7^+B_{14}^+C_7^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7,B_{14},C_8,D_{13})} = \\
& +A_7^+B_{14}^+\Phi_{(C_8,D_{13})} \\
& +A_7^+D_{13}^+\Phi_{(B_{14},C_8)} \\
& +B_{14}^+C_8^+\Phi_{(A_7,D_{13})} \\
& +C_8^+D_{13}^+\Phi_{(A_7,B_{14})} \\
& +A_7^+B_{14}^+C_8^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7,B_{14},C_8,D_{14})} = \\
& +A_7^+B_{14}^+\Phi_{(C_8,D_{14})} \\
& +A_7^+D_{14}^+\Phi_{(B_{14},C_8)} \\
& +B_{14}^+C_8^+\Phi_{(A_7,D_{14})} \\
& +C_8^+D_{14}^+\Phi_{(A_7,B_{14})} \\
& +A_7^+B_{14}^+C_8^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_7,B_{14},C_9,D_{11})} = \\
& +A_7^+B_{14}^+\Phi_{(C_9,D_{11})} \\
& +C_9^+D_{11}^+\Phi_{(A_7,B_{14})} \\
& +A_7^+B_{14}^+C_9^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{14}, C_9, D_{12})} = \\
&+ A_7^+ B_{14}^+ \Phi_{(C_9, D_{12})} \\
&+ C_9^+ D_{12}^+ \Phi_{(A_7, B_{14})} \\
&+ A_7^+ B_{14}^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{14}, C_{10}, D_{11})} = \\
&+ A_7^+ B_{14}^+ \Phi_{(C_{10}, D_{11})} \\
&+ C_{10}^+ D_{11}^+ \Phi_{(A_7, B_{14})} \\
&+ A_7^+ B_{14}^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{14}, C_{10}, D_{12})} = \\
&+ A_7^+ B_{14}^+ \Phi_{(C_{10}, D_{12})} \\
&+ C_{10}^+ D_{12}^+ \Phi_{(A_7, B_{14})} \\
&+ A_7^+ B_{14}^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{14}, C_{11}, D_9)} = \\
&+ A_7^+ B_{14}^+ \Phi_{(C_{11}, D_9)} \\
&+ C_{11}^+ D_9^+ \Phi_{(A_7, B_{14})} \\
&+ A_7^+ B_{14}^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{14}, C_{11}, D_{10})} = \\
&+ A_7^+ B_{14}^+ \Phi_{(C_{11}, D_{10})} \\
&+ C_{11}^+ D_{10}^+ \Phi_{(A_7, B_{14})} \\
&+ A_7^+ B_{14}^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{14}, C_{12}, D_9)} = \\
&+ A_7^+ B_{14}^+ \Phi_{(C_{12}, D_9)} \\
&+ C_{12}^+ D_9^+ \Phi_{(A_7, B_{14})}
\end{aligned}$$

$$+A_7^+ B_{14}^+ C_{12}^+ D_9^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{14}, C_{12}, D_{10})} =$$

$$+A_7^+ B_{14}^+ \Phi_{(C_{12}, D_{10})}$$

$$+C_{12}^+ D_{10}^+ \Phi_{(A_7, B_{14})}$$

$$+A_7^+ B_{14}^+ C_{12}^+ D_{10}^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{14}, C_{13}, D_7)} =$$

$$+A_7^+ B_{14}^+ \Phi_{(C_{13}, D_7)}$$

$$-A_7^+ C_{13}^+ \Phi_{(B_{14}, D_7)}$$

$$-B_{14}^+ D_7^+ \Phi_{(A_7, C_{13})}$$

$$+C_{13}^+ D_7^+ \Phi_{(A_7, B_{14})}$$

$$+A_7^+ B_{14}^+ C_{13}^+ D_7^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{14}, C_{13}, D_8)} =$$

$$+A_7^+ B_{14}^+ \Phi_{(C_{13}, D_8)}$$

$$-A_7^+ C_{13}^+ \Phi_{(B_{14}, D_8)}$$

$$-B_{14}^+ D_8^+ \Phi_{(A_7, C_{13})}$$

$$+C_{13}^+ D_8^+ \Phi_{(A_7, B_{14})}$$

$$+A_7^+ B_{14}^+ C_{13}^+ D_8^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{14}, C_{14}, D_7)} =$$

$$+A_7^+ B_{14}^+ \Phi_{(C_{14}, D_7)}$$

$$-A_7^+ C_{14}^+ \Phi_{(B_{14}, D_7)}$$

$$-B_{14}^+ D_7^+ \Phi_{(A_7, C_{14})}$$

$$+C_{14}^+ D_7^+ \Phi_{(A_7, B_{14})}$$

$$+A_7^+ B_{14}^+ C_{14}^+ D_7^+ \Phi_{()} =$$

$$\Phi_{(A_7, B_{14}, C_{14}, D_8)} =$$

$$\begin{aligned}
& +A_7^+ B_{14}^+ \Phi_{(C_{14}, D_8)} \\
& -A_7^+ C_{14}^+ \Phi_{(B_{14}, D_8)} \\
& -B_{14}^+ D_8^+ \Phi_{(A_7, C_{14})} \\
& +C_{14}^+ D_8^+ \Phi_{(A_7, B_{14})} \\
& +A_7^+ B_{14}^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{14}, C_{15}, D_6)} = \\
& +A_7^+ B_{14}^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_7, B_{14})} \\
& +A_7^+ B_{14}^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{15}, C_1, D_9)} = \\
& +C_1^+ \Phi_{(A_7, B_{15}, D_9)} \\
& +A_7^+ B_{15}^+ D_9^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{15}^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{15}, C_1, D_{10})} = \\
& +C_1^+ \Phi_{(A_7, B_{15}, D_{10})} \\
& +A_7^+ B_{15}^+ D_{10}^+ \Phi_{(C_1,)} \\
& +A_7^+ B_{15}^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{15}, C_2, D_9)} = \\
& +C_2^+ \Phi_{(A_7, B_{15}, D_9)} \\
& +A_7^+ B_{15}^+ D_9^+ \Phi_{(C_2,)} \\
& +A_7^+ B_{15}^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_7, B_{15}, C_2, D_{10})} = \\
& +C_2^+ \Phi_{(A_7, B_{15}, D_{10})} \\
& +A_7^+ B_{15}^+ D_{10}^+ \Phi_{(C_2,)}
\end{aligned}$$

$$+A_7^+ B_{15}^+ C_2^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{15}, C_3, D_9)} =$$

$$+C_3^+ \Phi_{(A_7, B_{15}, D_9)}$$

$$+A_7^+ B_{15}^+ D_9^+ \Phi_{(C_3,)}$$

$$+A_7^+ B_{15}^+ C_3^+ D_9^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{15}, C_3, D_{10})} =$$

$$+C_3^+ \Phi_{(A_7, B_{15}, D_{10})}$$

$$+A_7^+ B_{15}^+ D_{10}^+ \Phi_{(C_3,)}$$

$$+A_7^+ B_{15}^+ C_3^+ D_{10}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{15}, C_5, D_7)} =$$

$$+A_7^+ B_{15}^+ C_5^+ D_7^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{15}, C_5, D_8)} =$$

$$+A_7^+ B_{15}^+ C_5^+ D_8^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{15}, C_6, D_{13})} =$$

$$+A_7^+ D_{13}^+ \Phi_{(B_{15}, C_6)}$$

$$+B_{15}^+ C_6^+ \Phi_{(A_7, D_{13})}$$

$$+A_7^+ B_{15}^+ C_6^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{15}, C_6, D_{14})} =$$

$$+A_7^+ D_{14}^+ \Phi_{(B_{15}, C_6)}$$

$$+B_{15}^+ C_6^+ \Phi_{(A_7, D_{14})}$$

$$+A_7^+ B_{15}^+ C_6^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_7, B_{15}, C_7, D_5)} =$$

$$+A_7^+ B_{15}^+ C_7^+ D_5^+ \Phi_{()}$$

$$\begin{aligned} \Phi_{(A_7, B_{15}, C_8, D_5)} = \\ +A_7^+ B_{15}^+ C_8^+ D_5^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{15}, C_9, D_1)} = \\ +D_1^+ \Phi_{(A_7, B_{15}, C_9)} \\ +A_7^+ B_{15}^+ C_9^+ \Phi_{(D_1,)} \\ +A_7^+ B_{15}^+ C_9^+ D_1^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{15}, C_9, D_2)} = \\ +D_2^+ \Phi_{(A_7, B_{15}, C_9)} \\ +A_7^+ B_{15}^+ C_9^+ \Phi_{(D_2,)} \\ +A_7^+ B_{15}^+ C_9^+ D_2^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{15}, C_9, D_3)} = \\ +D_3^+ \Phi_{(A_7, B_{15}, C_9)} \\ +A_7^+ B_{15}^+ C_9^+ \Phi_{(D_3,)} \\ +A_7^+ B_{15}^+ C_9^+ D_3^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{15}, C_{10}, D_1)} = \\ +D_1^+ \Phi_{(A_7, B_{15}, C_{10})} \\ +A_7^+ B_{15}^+ C_{10}^+ \Phi_{(D_1,)} \\ +A_7^+ B_{15}^+ C_{10}^+ D_1^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_7, B_{15}, C_{10}, D_2)} = \\ +D_2^+ \Phi_{(A_7, B_{15}, C_{10})} \\ +A_7^+ B_{15}^+ C_{10}^+ \Phi_{(D_2,)} \\ +A_7^+ B_{15}^+ C_{10}^+ D_2^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{15}, C_{10}, D_3)} = \\
&+ D_3^+ \Phi_{(A_7, B_{15}, C_{10})} \\
&+ A_7^+ B_{15}^+ C_{10}^+ \Phi_{(D_3,)} \\
&+ A_7^+ B_{15}^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{15}, C_{13}, D_6)} = \\
&+ A_7^+ C_{13}^+ \Phi_{(B_{15}, D_6)} \\
&+ B_{15}^+ D_6^+ \Phi_{(A_7, C_{13})} \\
&+ A_7^+ B_{15}^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_7, B_{15}, C_{14}, D_6)} = \\
&+ A_7^+ C_{14}^+ \Phi_{(B_{15}, D_6)} \\
&+ B_{15}^+ D_6^+ \Phi_{(A_7, C_{14})} \\
&+ A_7^+ B_{15}^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_1, C_1, D_{13})} = \\
&+ B_1^+ \Phi_{(A_8, C_1, D_{13})} \\
&+ C_1^+ \Phi_{(A_8, B_1, D_{13})} \\
&+ A_8^+ D_{13}^+ \Phi_{(B_1, C_1)} \\
&+ B_1^+ C_1^+ \Phi_{(A_8, D_{13})} \\
&+ A_8^+ B_1^+ D_{13}^+ \Phi_{(C_1,)} \\
&+ A_8^+ C_1^+ D_{13}^+ \Phi_{(B_1,)} \\
&+ A_8^+ B_1^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_1, C_1, D_{14})} = \\
&+ B_1^+ \Phi_{(A_8, C_1, D_{14})} \\
&+ C_1^+ \Phi_{(A_8, B_1, D_{14})} \\
&+ A_8^+ D_{14}^+ \Phi_{(B_1, C_1)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+C_1^+\Phi_{(A_8,D_{14})} \\
& +A_8^+B_1^+D_{14}^+\Phi_{(C_1,)} \\
& +A_8^+C_1^+D_{14}^+\Phi_{(B_1,)} \\
& +A_8^+B_1^+C_1^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8,B_1,C_2,D_{13})} = \\
& +B_1^+\Phi_{(A_8,C_2,D_{13})} \\
& +C_2^+\Phi_{(A_8,B_1,D_{13})} \\
& +A_8^+D_{13}^+\Phi_{(B_1,C_2)} \\
& +B_1^+C_2^+\Phi_{(A_8,D_{13})} \\
& +A_8^+B_1^+D_{13}^+\Phi_{(C_2,)} \\
& +A_8^+C_2^+D_{13}^+\Phi_{(B_1,)} \\
& +A_8^+B_1^+C_2^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8,B_1,C_2,D_{14})} = \\
& +B_1^+\Phi_{(A_8,C_2,D_{14})} \\
& +C_2^+\Phi_{(A_8,B_1,D_{14})} \\
& +A_8^+D_{14}^+\Phi_{(B_1,C_2)} \\
& +B_1^+C_2^+\Phi_{(A_8,D_{14})} \\
& +A_8^+B_1^+D_{14}^+\Phi_{(C_2,)} \\
& +A_8^+C_2^+D_{14}^+\Phi_{(B_1,)} \\
& +A_8^+B_1^+C_2^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8,B_1,C_3,D_{13})} = \\
& +B_1^+\Phi_{(A_8,C_3,D_{13})} \\
& +C_3^+\Phi_{(A_8,B_1,D_{13})} \\
& +A_8^+D_{13}^+\Phi_{(B_1,C_3)} \\
& +B_1^+C_3^+\Phi_{(A_8,D_{13})} \\
& +A_8^+B_1^+D_{13}^+\Phi_{(C_3,)}
\end{aligned}$$

$$\begin{aligned}
& +A_8^+ C_3^+ D_{13}^+ \Phi_{(B_1,)} \\
& +A_8^+ B_1^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_1, C_3, D_{14})} = \\
& +B_1^+ \Phi_{(A_8, C_3, D_{14})} \\
& +C_3^+ \Phi_{(A_8, B_1, D_{14})} \\
& +A_8^+ D_{14}^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_8, D_{14})} \\
& +A_8^+ B_1^+ D_{14}^+ \Phi_{(C_3,)} \\
& +A_8^+ C_3^+ D_{14}^+ \Phi_{(B_1,)} \\
& +A_8^+ B_1^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_1, C_5, D_{11})} = \\
& +B_1^+ \Phi_{(A_8, C_5, D_{11})} \\
& +A_8^+ C_5^+ D_{11}^+ \Phi_{(B_1,)} \\
& +A_8^+ B_1^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_1, C_5, D_{12})} = \\
& +B_1^+ \Phi_{(A_8, C_5, D_{12})} \\
& +A_8^+ C_5^+ D_{12}^+ \Phi_{(B_1,)} \\
& +A_8^+ B_1^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_1, C_9, D_{15})} = \\
& +B_1^+ \Phi_{(A_8, C_9, D_{15})} \\
& +A_8^+ C_9^+ D_{15}^+ \Phi_{(B_1,)} \\
& +A_8^+ B_1^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_1, C_{10}, D_{15})} = \\
& +B_1^+ \Phi_{(A_8, C_{10}, D_{15})}
\end{aligned}$$

$$+A_8^+C_{10}^+D_{15}^+\Phi_{(B_1,)}$$

$$+A_8^+B_1^+C_{10}^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_8,B_1,C_{11},D_5)} =$$

$$+B_1^+\Phi_{(A_8,C_{11},D_5)}$$

$$+A_8^+C_{11}^+D_5^+\Phi_{(B_1,)}$$

$$+A_8^+B_1^+C_{11}^+D_5^+\Phi_{()}$$

$$\Phi_{(A_8,B_1,C_{12},D_5)} =$$

$$+B_1^+\Phi_{(A_8,C_{12},D_5)}$$

$$+A_8^+C_{12}^+D_5^+\Phi_{(B_1,)}$$

$$+A_8^+B_1^+C_{12}^+D_5^+\Phi_{()}$$

$$\Phi_{(A_8,B_1,C_{13},D_1)} =$$

$$+B_1^+\Phi_{(A_8,C_{13},D_1)}$$

$$+D_1^+\Phi_{(A_8,B_1,C_{13})}$$

$$+A_8^+C_{13}^+\Phi_{(B_1,D_1)}$$

$$+B_1^+D_1^+\Phi_{(A_8,C_{13})}$$

$$+A_8^+B_1^+C_{13}^+\Phi_{(D_1,)}$$

$$+A_8^+C_{13}^+D_1^+\Phi_{(B_1,)}$$

$$+A_8^+B_1^+C_{13}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_8,B_1,C_{13},D_2)} =$$

$$+B_1^+\Phi_{(A_8,C_{13},D_2)}$$

$$+D_2^+\Phi_{(A_8,B_1,C_{13})}$$

$$+A_8^+C_{13}^+\Phi_{(B_1,D_2)}$$

$$+B_1^+D_2^+\Phi_{(A_8,C_{13})}$$

$$+A_8^+B_1^+C_{13}^+\Phi_{(D_2,)}$$

$$+A_8^+C_{13}^+D_2^+\Phi_{(B_1,)}$$

$$+A_8^+B_1^+C_{13}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_8,B_1,C_{13},D_3)} =$$

$$+B_1^+\Phi_{(A_8,C_{13},D_3)}$$

$$+D_3^+\Phi_{(A_8,B_1,C_{13})}$$

$$+A_8^+C_{13}^+\Phi_{(B_1,D_3)}$$

$$+B_1^+D_3^+\Phi_{(A_8,C_{13})}$$

$$+A_8^+B_1^+C_{13}^+\Phi_{(D_3,)}$$

$$+A_8^+C_{13}^+D_3^+\Phi_{(B_1,)}$$

$$+A_8^+B_1^+C_{13}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_8,B_1,C_{14},D_1)} =$$

$$+B_1^+\Phi_{(A_8,C_{14},D_1)}$$

$$+D_1^+\Phi_{(A_8,B_1,C_{14})}$$

$$+A_8^+C_{14}^+\Phi_{(B_1,D_1)}$$

$$+B_1^+D_1^+\Phi_{(A_8,C_{14})}$$

$$+A_8^+B_1^+C_{14}^+\Phi_{(D_1,)}$$

$$+A_8^+C_{14}^+D_1^+\Phi_{(B_1,)}$$

$$+A_8^+B_1^+C_{14}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_8,B_1,C_{14},D_2)} =$$

$$+B_1^+\Phi_{(A_8,C_{14},D_2)}$$

$$+D_2^+\Phi_{(A_8,B_1,C_{14})}$$

$$+A_8^+C_{14}^+\Phi_{(B_1,D_2)}$$

$$+B_1^+D_2^+\Phi_{(A_8,C_{14})}$$

$$+A_8^+B_1^+C_{14}^+\Phi_{(D_2,)}$$

$$+A_8^+C_{14}^+D_2^+\Phi_{(B_1,)}$$

$$+A_8^+B_1^+C_{14}^+D_2^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_8, B_1, C_{14}, D_3)} = \\
&+ B_1^+ \Phi_{(A_8, C_{14}, D_3)} \\
&+ D_3^+ \Phi_{(A_8, B_1, C_{14})} \\
&+ A_8^+ C_{14}^+ \Phi_{(B_1, D_3)} \\
&+ B_1^+ D_3^+ \Phi_{(A_8, C_{14})} \\
&+ A_8^+ B_1^+ C_{14}^+ \Phi_{(D_3,)} \\
&+ A_8^+ C_{14}^+ D_3^+ \Phi_{(B_1,)} \\
&+ A_8^+ B_1^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_1, C_{15}, D_9)} = \\
&+ B_1^+ \Phi_{(A_8, C_{15}, D_9)} \\
&+ A_8^+ C_{15}^+ D_9^+ \Phi_{(B_1,)} \\
&+ A_8^+ B_1^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_1, C_{15}, D_{10})} = \\
&+ B_1^+ \Phi_{(A_8, C_{15}, D_{10})} \\
&+ A_8^+ C_{15}^+ D_{10}^+ \Phi_{(B_1,)} \\
&+ A_8^+ B_1^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_2, C_1, D_{13})} = \\
&+ B_2^+ \Phi_{(A_8, C_1, D_{13})} \\
&+ C_1^+ \Phi_{(A_8, B_2, D_{13})} \\
&+ A_8^+ D_{13}^+ \Phi_{(B_2, C_1)} \\
&+ B_2^+ C_1^+ \Phi_{(A_8, D_{13})} \\
&+ A_8^+ B_2^+ D_{13}^+ \Phi_{(C_1,)} \\
&+ A_8^+ C_1^+ D_{13}^+ \Phi_{(B_2,)} \\
&+ A_8^+ B_2^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_8, B_2, C_1, D_{14})} =$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_8, C_1, D_{14})} \\
& +C_1^+ \Phi_{(A_8, B_2, D_{14})} \\
& +A_8^+ D_{14}^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_8, D_{14})} \\
& +A_8^+ B_2^+ D_{14}^+ \Phi_{(C_1,)} \\
& +A_8^+ C_1^+ D_{14}^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_2, D_{13})} = \\
& +B_2^+ \Phi_{(A_8, C_2, D_{13})} \\
& +C_2^+ \Phi_{(A_8, B_2, D_{13})} \\
& +A_8^+ D_{13}^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_8, D_{13})} \\
& +A_8^+ B_2^+ D_{13}^+ \Phi_{(C_2,)} \\
& +A_8^+ C_2^+ D_{13}^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_2, D_{14})} = \\
& +B_2^+ \Phi_{(A_8, C_2, D_{14})} \\
& +C_2^+ \Phi_{(A_8, B_2, D_{14})} \\
& +A_8^+ D_{14}^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_8, D_{14})} \\
& +A_8^+ B_2^+ D_{14}^+ \Phi_{(C_2,)} \\
& +A_8^+ C_2^+ D_{14}^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_3, D_{13})} = \\
& +B_2^+ \Phi_{(A_8, C_3, D_{13})} \\
& +C_3^+ \Phi_{(A_8, B_2, D_{13})}
\end{aligned}$$

$$\begin{aligned}
& +A_8^+ D_{13}^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_8, D_{13})} \\
& +A_8^+ B_2^+ D_{13}^+ \Phi_{(C_3,)} \\
& +A_8^+ C_3^+ D_{13}^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_3, D_{14})} = \\
& +B_2^+ \Phi_{(A_8, C_3, D_{14})} \\
& +C_3^+ \Phi_{(A_8, B_2, D_{14})} \\
& +A_8^+ D_{14}^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_8, D_{14})} \\
& +A_8^+ B_2^+ D_{14}^+ \Phi_{(C_3,)} \\
& +A_8^+ C_3^+ D_{14}^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_5, D_{11})} = \\
& +B_2^+ \Phi_{(A_8, C_5, D_{11})} \\
& +A_8^+ C_5^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_5, D_{12})} = \\
& +B_2^+ \Phi_{(A_8, C_5, D_{12})} \\
& +A_8^+ C_5^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_9, D_{15})} = \\
& +B_2^+ \Phi_{(A_8, C_9, D_{15})} \\
& +A_8^+ C_9^+ D_{15}^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_2, C_{10}, D_{15})} = \\
&+ B_2^+ \Phi_{(A_8, C_{10}, D_{15})} \\
&+ A_8^+ C_{10}^+ D_{15}^+ \Phi_{(B_2,)} \\
&+ A_8^+ B_2^+ C_{10}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_2, C_{11}, D_5)} = \\
&+ B_2^+ \Phi_{(A_8, C_{11}, D_5)} \\
&+ A_8^+ C_{11}^+ D_5^+ \Phi_{(B_2,)} \\
&+ A_8^+ B_2^+ C_{11}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_2, C_{12}, D_5)} = \\
&+ B_2^+ \Phi_{(A_8, C_{12}, D_5)} \\
&+ A_8^+ C_{12}^+ D_5^+ \Phi_{(B_2,)} \\
&+ A_8^+ B_2^+ C_{12}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_2, C_{13}, D_1)} = \\
&+ B_2^+ \Phi_{(A_8, C_{13}, D_1)} \\
&+ D_1^+ \Phi_{(A_8, B_2, C_{13})} \\
&+ A_8^+ C_{13}^+ \Phi_{(B_2, D_1)} \\
&+ B_2^+ D_1^+ \Phi_{(A_8, C_{13})} \\
&+ A_8^+ B_2^+ C_{13}^+ \Phi_{(D_1,)} \\
&+ A_8^+ C_{13}^+ D_1^+ \Phi_{(B_2,)} \\
&+ A_8^+ B_2^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_2, C_{13}, D_2)} = \\
&+ B_2^+ \Phi_{(A_8, C_{13}, D_2)} \\
&+ D_2^+ \Phi_{(A_8, B_2, C_{13})} \\
&+ A_8^+ C_{13}^+ \Phi_{(B_2, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ D_2^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_2^+ C_{13}^+ \Phi_{(D_2,)} \\
& +A_8^+ C_{13}^+ D_2^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_{13}, D_3)} = \\
& +B_2^+ \Phi_{(A_8, C_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_8, B_2, C_{13})} \\
& +A_8^+ C_{13}^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_2^+ C_{13}^+ \Phi_{(D_3,)} \\
& +A_8^+ C_{13}^+ D_3^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_{14}, D_1)} = \\
& +B_2^+ \Phi_{(A_8, C_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_8, B_2, C_{14})} \\
& +A_8^+ C_{14}^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_2^+ C_{14}^+ \Phi_{(D_1,)} \\
& +A_8^+ C_{14}^+ D_1^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_2, C_{14}, D_2)} = \\
& +B_2^+ \Phi_{(A_8, C_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_8, B_2, C_{14})} \\
& +A_8^+ C_{14}^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_2^+ C_{14}^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_8^+ C_{14}^+ D_2^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_2, C_{14}, D_3)} = & \\
& +B_2^+ \Phi_{(A_8, C_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_8, B_2, C_{14})} \\
& +A_8^+ C_{14}^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_2^+ C_{14}^+ \Phi_{(D_3,)} \\
& +A_8^+ C_{14}^+ D_3^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_2, C_{15}, D_9)} = & \\
& +B_2^+ \Phi_{(A_8, C_{15}, D_9)} \\
& +A_8^+ C_{15}^+ D_9^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_2, C_{15}, D_{10})} = & \\
& +B_2^+ \Phi_{(A_8, C_{15}, D_{10})} \\
& +A_8^+ C_{15}^+ D_{10}^+ \Phi_{(B_2,)} \\
& +A_8^+ B_2^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_3, C_1, D_{13})} = & \\
& +B_3^+ \Phi_{(A_8, C_1, D_{13})} \\
& +C_1^+ \Phi_{(A_8, B_3, D_{13})} \\
& +A_8^+ D_{13}^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_8, D_{13})} \\
& +A_8^+ B_3^+ D_{13}^+ \Phi_{(C_1,)} \\
& +A_8^+ C_1^+ D_{13}^+ \Phi_{(B_3,)}
\end{aligned}$$

$$+A_8^+ B_3^+ C_1^+ D_{13}^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_8, B_3, C_1, D_{14})} = & \\ & +B_3^+ \Phi_{(A_8, C_1, D_{14})} \\ & +C_1^+ \Phi_{(A_8, B_3, D_{14})} \\ & +A_8^+ D_{14}^+ \Phi_{(B_3, C_1)} \\ & +B_3^+ C_1^+ \Phi_{(A_8, D_{14})} \\ & +A_8^+ B_3^+ D_{14}^+ \Phi_{(C_1,)} \\ & +A_8^+ C_1^+ D_{14}^+ \Phi_{(B_3,)} \\ & +A_8^+ B_3^+ C_1^+ D_{14}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_8, B_3, C_2, D_{13})} = & \\ & +B_3^+ \Phi_{(A_8, C_2, D_{13})} \\ & +C_2^+ \Phi_{(A_8, B_3, D_{13})} \\ & +A_8^+ D_{13}^+ \Phi_{(B_3, C_2)} \\ & +B_3^+ C_2^+ \Phi_{(A_8, D_{13})} \\ & +A_8^+ B_3^+ D_{13}^+ \Phi_{(C_2,)} \\ & +A_8^+ C_2^+ D_{13}^+ \Phi_{(B_3,)} \\ & +A_8^+ B_3^+ C_2^+ D_{13}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_8, B_3, C_2, D_{14})} = & \\ & +B_3^+ \Phi_{(A_8, C_2, D_{14})} \\ & +C_2^+ \Phi_{(A_8, B_3, D_{14})} \\ & +A_8^+ D_{14}^+ \Phi_{(B_3, C_2)} \\ & +B_3^+ C_2^+ \Phi_{(A_8, D_{14})} \\ & +A_8^+ B_3^+ D_{14}^+ \Phi_{(C_2,)} \\ & +A_8^+ C_2^+ D_{14}^+ \Phi_{(B_3,)} \\ & +A_8^+ B_3^+ C_2^+ D_{14}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_3, C_3, D_{13})} = \\
&+ B_3^+ \Phi_{(A_8, C_3, D_{13})} \\
&+ C_3^+ \Phi_{(A_8, B_3, D_{13})} \\
&+ A_8^+ D_{13}^+ \Phi_{(B_3, C_3)} \\
&+ B_3^+ C_3^+ \Phi_{(A_8, D_{13})} \\
&+ A_8^+ B_3^+ D_{13}^+ \Phi_{(C_3,)} \\
&+ A_8^+ C_3^+ D_{13}^+ \Phi_{(B_3,)} \\
&+ A_8^+ B_3^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_3, C_3, D_{14})} = \\
&+ B_3^+ \Phi_{(A_8, C_3, D_{14})} \\
&+ C_3^+ \Phi_{(A_8, B_3, D_{14})} \\
&+ A_8^+ D_{14}^+ \Phi_{(B_3, C_3)} \\
&+ B_3^+ C_3^+ \Phi_{(A_8, D_{14})} \\
&+ A_8^+ B_3^+ D_{14}^+ \Phi_{(C_3,)} \\
&+ A_8^+ C_3^+ D_{14}^+ \Phi_{(B_3,)} \\
&+ A_8^+ B_3^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_3, C_5, D_{11})} = \\
&+ B_3^+ \Phi_{(A_8, C_5, D_{11})} \\
&+ A_8^+ C_5^+ D_{11}^+ \Phi_{(B_3,)} \\
&+ A_8^+ B_3^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_3, C_5, D_{12})} = \\
&+ B_3^+ \Phi_{(A_8, C_5, D_{12})} \\
&+ A_8^+ C_5^+ D_{12}^+ \Phi_{(B_3,)} \\
&+ A_8^+ B_3^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_8, B_3, C_9, D_{15})} =$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_8, C_9, D_{15})} \\
& +A_8^+ C_9^+ D_{15}^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{10}, D_{15})} = \\
& +B_3^+ \Phi_{(A_8, C_{10}, D_{15})} \\
& +A_8^+ C_{10}^+ D_{15}^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{10}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{11}, D_5)} = \\
& +B_3^+ \Phi_{(A_8, C_{11}, D_5)} \\
& +A_8^+ C_{11}^+ D_5^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{11}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{12}, D_5)} = \\
& +B_3^+ \Phi_{(A_8, C_{12}, D_5)} \\
& +A_8^+ C_{12}^+ D_5^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{12}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{13}, D_1)} = \\
& +B_3^+ \Phi_{(A_8, C_{13}, D_1)} \\
& +D_1^+ \Phi_{(A_8, B_3, C_{13})} \\
& +A_8^+ C_{13}^+ \Phi_{(B_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_3^+ C_{13}^+ \Phi_{(D_1,)} \\
& +A_8^+ C_{13}^+ D_1^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_8, B_3, C_{13}, D_2)} =$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_8, C_{13}, D_2)} \\
& +D_2^+ \Phi_{(A_8, B_3, C_{13})} \\
& +A_8^+ C_{13}^+ \Phi_{(B_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_3^+ C_{13}^+ \Phi_{(D_2,)} \\
& +A_8^+ C_{13}^+ D_2^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{13}, D_3)} = \\
& +B_3^+ \Phi_{(A_8, C_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_8, B_3, C_{13})} \\
& +A_8^+ C_{13}^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_3^+ C_{13}^+ \Phi_{(D_3,)} \\
& +A_8^+ C_{13}^+ D_3^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{14}, D_1)} = \\
& +B_3^+ \Phi_{(A_8, C_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_8, B_3, C_{14})} \\
& +A_8^+ C_{14}^+ \Phi_{(B_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_3^+ C_{14}^+ \Phi_{(D_1,)} \\
& +A_8^+ C_{14}^+ D_1^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{14}, D_2)} = \\
& +B_3^+ \Phi_{(A_8, C_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_8, B_3, C_{14})}
\end{aligned}$$

$$\begin{aligned}
& +A_8^+ C_{14}^+ \Phi_{(B_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_3^+ C_{14}^+ \Phi_{(D_2,)} \\
& +A_8^+ C_{14}^+ D_2^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{14}, D_3)} = \\
& +B_3^+ \Phi_{(A_8, C_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_8, B_3, C_{14})} \\
& +A_8^+ C_{14}^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_3^+ C_{14}^+ \Phi_{(D_3,)} \\
& +A_8^+ C_{14}^+ D_3^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{15}, D_9)} = \\
& +B_3^+ \Phi_{(A_8, C_{15}, D_9)} \\
& +A_8^+ C_{15}^+ D_9^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_3, C_{15}, D_{10})} = \\
& +B_3^+ \Phi_{(A_8, C_{15}, D_{10})} \\
& +A_8^+ C_{15}^+ D_{10}^+ \Phi_{(B_3,)} \\
& +A_8^+ B_3^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_4, C_5, D_{13})} = \\
& +A_8^+ D_{13}^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_8, D_{13})} \\
& +A_8^+ B_4^+ C_5^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_4, C_5, D_{14})} = \\
&+ A_8^+ D_{14}^+ \Phi_{(B_4, C_5)} \\
&+ B_4^+ C_5^+ \Phi_{(A_8, D_{14})} \\
&+ A_8^+ B_4^+ C_5^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_4, C_{13}, D_5)} = \\
&+ A_8^+ C_{13}^+ \Phi_{(B_4, D_5)} \\
&+ B_4^+ D_5^+ \Phi_{(A_8, C_{13})} \\
&+ A_8^+ B_4^+ C_{13}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_4, C_{14}, D_5)} = \\
&+ A_8^+ C_{14}^+ \Phi_{(B_4, D_5)} \\
&+ B_4^+ D_5^+ \Phi_{(A_8, C_{14})} \\
&+ A_8^+ B_4^+ C_{14}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_5, C_1, D_{11})} = \\
&+ C_1^+ \Phi_{(A_8, B_5, D_{11})} \\
&+ A_8^+ B_5^+ D_{11}^+ \Phi_{(C_1,)} \\
&+ A_8^+ B_5^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_5, C_1, D_{12})} = \\
&+ C_1^+ \Phi_{(A_8, B_5, D_{12})} \\
&+ A_8^+ B_5^+ D_{12}^+ \Phi_{(C_1,)} \\
&+ A_8^+ B_5^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_5, C_2, D_{11})} = \\
&+ C_2^+ \Phi_{(A_8, B_5, D_{11})} \\
&+ A_8^+ B_5^+ D_{11}^+ \Phi_{(C_2,)}
\end{aligned}$$

$$+A_8^+ B_5^+ C_2^+ D_{11}^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_8, B_5, C_2, D_{12})} = \\ +C_2^+ \Phi_{(A_8, B_5, D_{12})} \\ +A_8^+ B_5^+ D_{12}^+ \Phi_{(C_2,)} \\ +A_8^+ B_5^+ C_2^+ D_{12}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_8, B_5, C_3, D_{11})} = \\ +C_3^+ \Phi_{(A_8, B_5, D_{11})} \\ +A_8^+ B_5^+ D_{11}^+ \Phi_{(C_3,)} \\ +A_8^+ B_5^+ C_3^+ D_{11}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_8, B_5, C_3, D_{12})} = \\ +C_3^+ \Phi_{(A_8, B_5, D_{12})} \\ +A_8^+ B_5^+ D_{12}^+ \Phi_{(C_3,)} \\ +A_8^+ B_5^+ C_3^+ D_{12}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_8, B_5, C_4, D_{13})} = \\ +A_8^+ D_{13}^+ \Phi_{(B_5, C_4)} \\ +B_5^+ C_4^+ \Phi_{(A_8, D_{13})} \\ +A_8^+ B_5^+ C_4^+ D_{13}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_8, B_5, C_4, D_{14})} = \\ +A_8^+ D_{14}^+ \Phi_{(B_5, C_4)} \\ +B_5^+ C_4^+ \Phi_{(A_8, D_{14})} \\ +A_8^+ B_5^+ C_4^+ D_{14}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_8, B_5, C_7, D_{15})} = \\ +A_8^+ B_5^+ C_7^+ D_{15}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_5, C_8, D_{15})} = \\ + A_8^+ B_5^+ C_8^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_5, C_{11}, D_1)} = \\ + D_1^+ \Phi_{(A_8, B_5, C_{11})} \\ + A_8^+ B_5^+ C_{11}^+ \Phi_{(D_1,)} \\ + A_8^+ B_5^+ C_{11}^+ D_1^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_5, C_{11}, D_2)} = \\ + D_2^+ \Phi_{(A_8, B_5, C_{11})} \\ + A_8^+ B_5^+ C_{11}^+ \Phi_{(D_2,)} \\ + A_8^+ B_5^+ C_{11}^+ D_2^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_5, C_{11}, D_3)} = \\ + D_3^+ \Phi_{(A_8, B_5, C_{11})} \\ + A_8^+ B_5^+ C_{11}^+ \Phi_{(D_3,)} \\ + A_8^+ B_5^+ C_{11}^+ D_3^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_5, C_{12}, D_1)} = \\ + D_1^+ \Phi_{(A_8, B_5, C_{12})} \\ + A_8^+ B_5^+ C_{12}^+ \Phi_{(D_1,)} \\ + A_8^+ B_5^+ C_{12}^+ D_1^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_5, C_{12}, D_2)} = \\ + D_2^+ \Phi_{(A_8, B_5, C_{12})} \\ + A_8^+ B_5^+ C_{12}^+ \Phi_{(D_2,)} \\ + A_8^+ B_5^+ C_{12}^+ D_2^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_5, C_{12}, D_3)} = \\
&+ D_3^+ \Phi_{(A_8, B_5, C_{12})} \\
&+ A_8^+ B_5^+ C_{12}^+ \Phi_{(D_3,)} \\
&+ A_8^+ B_5^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_5, C_{13}, D_4)} = \\
&+ A_8^+ C_{13}^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_8, C_{13})} \\
&+ A_8^+ B_5^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_5, C_{14}, D_4)} = \\
&+ A_8^+ C_{14}^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_8, C_{14})} \\
&+ A_8^+ B_5^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_5, C_{15}, D_7)} = \\
&+ A_8^+ B_5^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_5, C_{15}, D_8)} = \\
&+ A_8^+ B_5^+ C_{15}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_6, C_{13}, D_{15})} = \\
&+ A_8^+ C_{13}^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_8, C_{13})} \\
&+ A_8^+ B_6^+ C_{13}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_6, C_{14}, D_{15})} = \\
&+ A_8^+ C_{14}^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_8, C_{14})}
\end{aligned}$$

$$+A_8^+B_6^+C_{14}^+D_{15}^+\Phi_{()} \\$$

$$\Phi_{(A_8,B_6,C_{15},D_{13})} =$$

$$+A_8^+D_{13}^+\Phi_{(B_6,C_{15})}$$

$$+B_6^+C_{15}^+\Phi_{(A_8,D_{13})}$$

$$+A_8^+B_6^+C_{15}^+D_{13}^+\Phi_{()} \\$$

$$\Phi_{(A_8,B_6,C_{15},D_{14})} =$$

$$+A_8^+D_{14}^+\Phi_{(B_6,C_{15})}$$

$$+B_6^+C_{15}^+\Phi_{(A_8,D_{14})}$$

$$+A_8^+B_6^+C_{15}^+D_{14}^+\Phi_{()} \\$$

$$\Phi_{(A_8,B_7,C_5,D_{15})} =$$

$$+A_8^+B_7^+C_5^+D_{15}^+\Phi_{()} \\$$

$$\Phi_{(A_8,B_7,C_{13},D_{13})} =$$

$$-A_8^+C_{13}^+\Phi_{(B_7,D_{13})}$$

$$+A_8^+D_{13}^+\Phi_{(B_7,C_{13})}$$

$$+B_7^+C_{13}^+\Phi_{(A_8,D_{13})}$$

$$-B_7^+D_{13}^+\Phi_{(A_8,C_{13})}$$

$$+A_8^+B_7^+C_{13}^+D_{13}^+\Phi_{()} \\$$

$$\Phi_{(A_8,B_7,C_{13},D_{14})} =$$

$$-A_8^+C_{13}^+\Phi_{(B_7,D_{14})}$$

$$+A_8^+D_{14}^+\Phi_{(B_7,C_{13})}$$

$$+B_7^+C_{13}^+\Phi_{(A_8,D_{14})}$$

$$-B_7^+D_{14}^+\Phi_{(A_8,C_{13})}$$

$$+A_8^+B_7^+C_{13}^+D_{14}^+\Phi_{()} \\$$

$$\begin{aligned}
\Phi_{(A_8, B_7, C_{14}, D_{13})} = & \\
& -A_8^+ C_{14}^+ \Phi_{(B_7, D_{13})} \\
& +A_8^+ D_{13}^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_8, D_{13})} \\
& -B_7^+ D_{13}^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_7^+ C_{14}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_7, C_{14}, D_{14})} = & \\
& -A_8^+ C_{14}^+ \Phi_{(B_7, D_{14})} \\
& +A_8^+ D_{14}^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_8, D_{14})} \\
& -B_7^+ D_{14}^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_7^+ C_{14}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_7, C_{15}, D_5)} = & \\
& +A_8^+ B_7^+ C_{15}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_8, C_5, D_{15})} = & \\
& +A_8^+ B_8^+ C_5^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_8, C_{13}, D_{13})} = & \\
& -A_8^+ C_{13}^+ \Phi_{(B_8, D_{13})} \\
& +A_8^+ D_{13}^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_8, D_{13})} \\
& -B_8^+ D_{13}^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_8^+ C_{13}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_8, C_{13}, D_{14})} = & \\
& -A_8^+ C_{13}^+ \Phi_{(B_8, D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +A_8^+ D_{14}^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_8, D_{14})} \\
& -B_8^+ D_{14}^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_8^+ C_{13}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_8, C_{14}, D_{13})} = \\
& -A_8^+ C_{14}^+ \Phi_{(B_8, D_{13})} \\
& +A_8^+ D_{13}^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_8, D_{13})} \\
& -B_8^+ D_{13}^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_8^+ C_{14}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_8, C_{14}, D_{14})} = \\
& -A_8^+ C_{14}^+ \Phi_{(B_8, D_{14})} \\
& +A_8^+ D_{14}^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_8, D_{14})} \\
& -B_8^+ D_{14}^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_8^+ C_{14}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_8, C_{15}, D_5)} = \\
& +A_8^+ B_8^+ C_{15}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_9, C_1, D_{15})} = \\
& +C_1^+ \Phi_{(A_8, B_9, D_{15})} \\
& +A_8^+ B_9^+ D_{15}^+ \Phi_{(C_1,)} \\
& +A_8^+ B_9^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_9, C_2, D_{15})} = \\
& +C_2^+ \Phi_{(A_8, B_9, D_{15})}
\end{aligned}$$

$$+A_8^+B_9^+D_{15}^+\Phi_{(C_2,)}$$

$$+A_8^+B_9^+C_2^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_8,B_9,C_3,D_{15})} =$$

$$+C_3^+\Phi_{(A_8,B_9,D_{15})}$$

$$+A_8^+B_9^+D_{15}^+\Phi_{(C_3,)}$$

$$+A_8^+B_9^+C_3^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_8,B_9,C_{11},D_{13})} =$$

$$+A_8^+D_{13}^+\Phi_{(B_9,C_{11})}$$

$$+B_9^+C_{11}^+\Phi_{(A_8,D_{13})}$$

$$+A_8^+B_9^+C_{11}^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_8,B_9,C_{11},D_{14})} =$$

$$+A_8^+D_{14}^+\Phi_{(B_9,C_{11})}$$

$$+B_9^+C_{11}^+\Phi_{(A_8,D_{14})}$$

$$+A_8^+B_9^+C_{11}^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_8,B_9,C_{12},D_{13})} =$$

$$+A_8^+D_{13}^+\Phi_{(B_9,C_{12})}$$

$$+B_9^+C_{12}^+\Phi_{(A_8,D_{13})}$$

$$+A_8^+B_9^+C_{12}^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_8,B_9,C_{12},D_{14})} =$$

$$+A_8^+D_{14}^+\Phi_{(B_9,C_{12})}$$

$$+B_9^+C_{12}^+\Phi_{(A_8,D_{14})}$$

$$+A_8^+B_9^+C_{12}^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_8,B_9,C_{13},D_{11})} =$$

$$-A_8^+ C_{13}^+ \Phi_{(B_9, D_{11})}$$

$$-B_9^+ D_{11}^+ \Phi_{(A_8, C_{13})}$$

$$+A_8^+ B_9^+ C_{13}^+ D_{11}^+ \Phi_{()}$$

$$\Phi_{(A_8, B_9, C_{13}, D_{12})} =$$

$$-A_8^+ C_{13}^+ \Phi_{(B_9, D_{12})}$$

$$-B_9^+ D_{12}^+ \Phi_{(A_8, C_{13})}$$

$$+A_8^+ B_9^+ C_{13}^+ D_{12}^+ \Phi_{()}$$

$$\Phi_{(A_8, B_9, C_{14}, D_{11})} =$$

$$-A_8^+ C_{14}^+ \Phi_{(B_9, D_{11})}$$

$$-B_9^+ D_{11}^+ \Phi_{(A_8, C_{14})}$$

$$+A_8^+ B_9^+ C_{14}^+ D_{11}^+ \Phi_{()}$$

$$\Phi_{(A_8, B_9, C_{14}, D_{12})} =$$

$$-A_8^+ C_{14}^+ \Phi_{(B_9, D_{12})}$$

$$-B_9^+ D_{12}^+ \Phi_{(A_8, C_{14})}$$

$$+A_8^+ B_9^+ C_{14}^+ D_{12}^+ \Phi_{()}$$

$$\Phi_{(A_8, B_9, C_{15}, D_1)} =$$

$$+D_1^+ \Phi_{(A_8, B_9, C_{15})}$$

$$+A_8^+ B_9^+ C_{15}^+ \Phi_{(D_1,)}$$

$$+A_8^+ B_9^+ C_{15}^+ D_1^+ \Phi_{()}$$

$$\Phi_{(A_8, B_9, C_{15}, D_2)} =$$

$$+D_2^+ \Phi_{(A_8, B_9, C_{15})}$$

$$+A_8^+ B_9^+ C_{15}^+ \Phi_{(D_2,)}$$

$$+A_8^+ B_9^+ C_{15}^+ D_2^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_8, B_9, C_{15}, D_3)} = \\
&+ D_3^+ \Phi_{(A_8, B_9, C_{15})} \\
&+ A_8^+ B_9^+ C_{15}^+ \Phi_{(D_3,)} \\
&+ A_8^+ B_9^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{10}, C_1, D_{15})} = \\
&+ C_1^+ \Phi_{(A_8, B_{10}, D_{15})} \\
&+ A_8^+ B_{10}^+ D_{15}^+ \Phi_{(C_1,)} \\
&+ A_8^+ B_{10}^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{10}, C_2, D_{15})} = \\
&+ C_2^+ \Phi_{(A_8, B_{10}, D_{15})} \\
&+ A_8^+ B_{10}^+ D_{15}^+ \Phi_{(C_2,)} \\
&+ A_8^+ B_{10}^+ C_2^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{10}, C_3, D_{15})} = \\
&+ C_3^+ \Phi_{(A_8, B_{10}, D_{15})} \\
&+ A_8^+ B_{10}^+ D_{15}^+ \Phi_{(C_3,)} \\
&+ A_8^+ B_{10}^+ C_3^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{10}, C_{11}, D_{13})} = \\
&+ A_8^+ D_{13}^+ \Phi_{(B_{10}, C_{11})} \\
&+ B_{10}^+ C_{11}^+ \Phi_{(A_8, D_{13})} \\
&+ A_8^+ B_{10}^+ C_{11}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{10}, C_{11}, D_{14})} = \\
&+ A_8^+ D_{14}^+ \Phi_{(B_{10}, C_{11})} \\
&+ B_{10}^+ C_{11}^+ \Phi_{(A_8, D_{14})} \\
&+ A_8^+ B_{10}^+ C_{11}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{10}, C_{12}, D_{13})} = & \\
& + A_8^+ D_{13}^+ \Phi_{(B_{10}, C_{12})} \\
& + B_{10}^+ C_{12}^+ \Phi_{(A_8, D_{13})} \\
& + A_8^+ B_{10}^+ C_{12}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{10}, C_{12}, D_{14})} = & \\
& + A_8^+ D_{14}^+ \Phi_{(B_{10}, C_{12})} \\
& + B_{10}^+ C_{12}^+ \Phi_{(A_8, D_{14})} \\
& + A_8^+ B_{10}^+ C_{12}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{10}, C_{13}, D_{11})} = & \\
& - A_8^+ C_{13}^+ \Phi_{(B_{10}, D_{11})} \\
& - B_{10}^+ D_{11}^+ \Phi_{(A_8, C_{13})} \\
& + A_8^+ B_{10}^+ C_{13}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{10}, C_{13}, D_{12})} = & \\
& - A_8^+ C_{13}^+ \Phi_{(B_{10}, D_{12})} \\
& - B_{10}^+ D_{12}^+ \Phi_{(A_8, C_{13})} \\
& + A_8^+ B_{10}^+ C_{13}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{10}, C_{14}, D_{11})} = & \\
& - A_8^+ C_{14}^+ \Phi_{(B_{10}, D_{11})} \\
& - B_{10}^+ D_{11}^+ \Phi_{(A_8, C_{14})} \\
& + A_8^+ B_{10}^+ C_{14}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{10}, C_{14}, D_{12})} = & \\
& - A_8^+ C_{14}^+ \Phi_{(B_{10}, D_{12})} \\
& - B_{10}^+ D_{12}^+ \Phi_{(A_8, C_{14})}
\end{aligned}$$

$$+A_8^+B_{10}^+C_{14}^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_8,B_{10},C_{15},D_1)} =$$

$$+D_1^+\Phi_{(A_8,B_{10},C_{15})}$$

$$+A_8^+B_{10}^+C_{15}^+\Phi_{(D_1,)}$$

$$+A_8^+B_{10}^+C_{15}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_8,B_{10},C_{15},D_2)} =$$

$$+D_2^+\Phi_{(A_8,B_{10},C_{15})}$$

$$+A_8^+B_{10}^+C_{15}^+\Phi_{(D_2,)}$$

$$+A_8^+B_{10}^+C_{15}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_8,B_{10},C_{15},D_3)} =$$

$$+D_3^+\Phi_{(A_8,B_{10},C_{15})}$$

$$+A_8^+B_{10}^+C_{15}^+\Phi_{(D_3,)}$$

$$+A_8^+B_{10}^+C_{15}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_8,B_{11},C_1,D_5)} =$$

$$+C_1^+\Phi_{(A_8,B_{11},D_5)}$$

$$+A_8^+B_{11}^+D_5^+\Phi_{(C_1,)}$$

$$+A_8^+B_{11}^+C_1^+D_5^+\Phi_{()}$$

$$\Phi_{(A_8,B_{11},C_2,D_5)} =$$

$$+C_2^+\Phi_{(A_8,B_{11},D_5)}$$

$$+A_8^+B_{11}^+D_5^+\Phi_{(C_2,)}$$

$$+A_8^+B_{11}^+C_2^+D_5^+\Phi_{()}$$

$$\Phi_{(A_8,B_{11},C_3,D_5)} =$$

$$+C_3^+\Phi_{(A_8,B_{11},D_5)}$$

$$+A_8^+B_{11}^+D_5^+\Phi_{(C_3,)}$$

$$+A_8^+B_{11}^+C_3^+D_5^+\Phi_{()}$$

$$\Phi_{(A_8,B_{11},C_5,D_1)} =$$

$$+D_1^+\Phi_{(A_8,B_{11},C_5)}$$

$$+A_8^+B_{11}^+C_5^+\Phi_{(D_1,)}$$

$$+A_8^+B_{11}^+C_5^+D_1^+\Phi_{()}$$

$$\Phi_{(A_8,B_{11},C_5,D_2)} =$$

$$+D_2^+\Phi_{(A_8,B_{11},C_5)}$$

$$+A_8^+B_{11}^+C_5^+\Phi_{(D_2,)}$$

$$+A_8^+B_{11}^+C_5^+D_2^+\Phi_{()}$$

$$\Phi_{(A_8,B_{11},C_5,D_3)} =$$

$$+D_3^+\Phi_{(A_8,B_{11},C_5)}$$

$$+A_8^+B_{11}^+C_5^+\Phi_{(D_3,)}$$

$$+A_8^+B_{11}^+C_5^+D_3^+\Phi_{()}$$

$$\Phi_{(A_8,B_{11},C_9,D_{13})} =$$

$$+A_8^+D_{13}^+\Phi_{(B_{11},C_9)}$$

$$+B_{11}^+C_9^+\Phi_{(A_8,D_{13})}$$

$$+A_8^+B_{11}^+C_9^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_8,B_{11},C_9,D_{14})} =$$

$$+A_8^+D_{14}^+\Phi_{(B_{11},C_9)}$$

$$+B_{11}^+C_9^+\Phi_{(A_8,D_{14})}$$

$$+A_8^+B_{11}^+C_9^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_8,B_{11},C_{10},D_{13})} =$$

$$\begin{aligned}
& +A_8^+ D_{13}^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_8, D_{13})} \\
& +A_8^+ B_{11}^+ C_{10}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{11}, C_{10}, D_{14})} = \\
& +A_8^+ D_{14}^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_8, D_{14})} \\
& +A_8^+ B_{11}^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{11}, C_{13}, D_9)} = \\
& -A_8^+ C_{13}^+ \Phi_{(B_{11}, D_9)} \\
& -B_{11}^+ D_9^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_{11}^+ C_{13}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{11}, C_{13}, D_{10})} = \\
& -A_8^+ C_{13}^+ \Phi_{(B_{11}, D_{10})} \\
& -B_{11}^+ D_{10}^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_{11}^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{11}, C_{14}, D_9)} = \\
& -A_8^+ C_{14}^+ \Phi_{(B_{11}, D_9)} \\
& -B_{11}^+ D_9^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_{11}^+ C_{14}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{11}, C_{14}, D_{10})} = \\
& -A_8^+ C_{14}^+ \Phi_{(B_{11}, D_{10})} \\
& -B_{11}^+ D_{10}^+ \Phi_{(A_8, C_{14})} \\
& +A_8^+ B_{11}^+ C_{14}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{12}, C_1, D_5)} = \\
& + C_1^+ \Phi_{(A_8, B_{12}, D_5)} \\
& + A_8^+ B_{12}^+ D_5^+ \Phi_{(C_1,)} \\
& + A_8^+ B_{12}^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{12}, C_2, D_5)} = \\
& + C_2^+ \Phi_{(A_8, B_{12}, D_5)} \\
& + A_8^+ B_{12}^+ D_5^+ \Phi_{(C_2,)} \\
& + A_8^+ B_{12}^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{12}, C_3, D_5)} = \\
& + C_3^+ \Phi_{(A_8, B_{12}, D_5)} \\
& + A_8^+ B_{12}^+ D_5^+ \Phi_{(C_3,)} \\
& + A_8^+ B_{12}^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{12}, C_5, D_1)} = \\
& + D_1^+ \Phi_{(A_8, B_{12}, C_5)} \\
& + A_8^+ B_{12}^+ C_5^+ \Phi_{(D_1,)} \\
& + A_8^+ B_{12}^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{12}, C_5, D_2)} = \\
& + D_2^+ \Phi_{(A_8, B_{12}, C_5)} \\
& + A_8^+ B_{12}^+ C_5^+ \Phi_{(D_2,)} \\
& + A_8^+ B_{12}^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{12}, C_5, D_3)} = \\
& + D_3^+ \Phi_{(A_8, B_{12}, C_5)} \\
& + A_8^+ B_{12}^+ C_5^+ \Phi_{(D_3,)} \\
& + A_8^+ B_{12}^+ C_5^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{12}, C_9, D_{13})} = \\
&+ A_8^+ D_{13}^+ \Phi_{(B_{12}, C_9)} \\
&+ B_{12}^+ C_9^+ \Phi_{(A_8, D_{13})} \\
&+ A_8^+ B_{12}^+ C_9^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{12}, C_9, D_{14})} = \\
&+ A_8^+ D_{14}^+ \Phi_{(B_{12}, C_9)} \\
&+ B_{12}^+ C_9^+ \Phi_{(A_8, D_{14})} \\
&+ A_8^+ B_{12}^+ C_9^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{12}, C_{10}, D_{13})} = \\
&+ A_8^+ D_{13}^+ \Phi_{(B_{12}, C_{10})} \\
&+ B_{12}^+ C_{10}^+ \Phi_{(A_8, D_{13})} \\
&+ A_8^+ B_{12}^+ C_{10}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{12}, C_{10}, D_{14})} = \\
&+ A_8^+ D_{14}^+ \Phi_{(B_{12}, C_{10})} \\
&+ B_{12}^+ C_{10}^+ \Phi_{(A_8, D_{14})} \\
&+ A_8^+ B_{12}^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{12}, C_{13}, D_9)} = \\
&- A_8^+ C_{13}^+ \Phi_{(B_{12}, D_9)} \\
&- B_{12}^+ D_9^+ \Phi_{(A_8, C_{13})} \\
&+ A_8^+ B_{12}^+ C_{13}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{12}, C_{13}, D_{10})} = \\
&- A_8^+ C_{13}^+ \Phi_{(B_{12}, D_{10})} \\
&- B_{12}^+ D_{10}^+ \Phi_{(A_8, C_{13})}
\end{aligned}$$

$$+A_8^+ B_{12}^+ C_{13}^+ D_{10}^+ \Phi_{()}$$

$$\Phi_{(A_8, B_{12}, C_{14}, D_9)} =$$

$$-A_8^+ C_{14}^+ \Phi_{(B_{12}, D_9)}$$

$$-B_{12}^+ D_9^+ \Phi_{(A_8, C_{14})}$$

$$+A_8^+ B_{12}^+ C_{14}^+ D_9^+ \Phi_{()}$$

$$\Phi_{(A_8, B_{12}, C_{14}, D_{10})} =$$

$$-A_8^+ C_{14}^+ \Phi_{(B_{12}, D_{10})}$$

$$-B_{12}^+ D_{10}^+ \Phi_{(A_8, C_{14})}$$

$$+A_8^+ B_{12}^+ C_{14}^+ D_{10}^+ \Phi_{()}$$

$$\Phi_{(A_8, B_{13}, C_1, D_1)} =$$

$$+C_1^+ \Phi_{(A_8, B_{13}, D_1)}$$

$$+D_1^+ \Phi_{(A_8, B_{13}, C_1)}$$

$$+A_8^+ B_{13}^+ \Phi_{(C_1, D_1)}$$

$$+C_1^+ D_1^+ \Phi_{(A_8, B_{13})}$$

$$+A_8^+ B_{13}^+ C_1^+ \Phi_{(D_1,)}$$

$$+A_8^+ B_{13}^+ D_1^+ \Phi_{(C_1,)}$$

$$+A_8^+ B_{13}^+ C_1^+ D_1^+ \Phi_{()}$$

$$\Phi_{(A_8, B_{13}, C_1, D_2)} =$$

$$+C_1^+ \Phi_{(A_8, B_{13}, D_2)}$$

$$+D_2^+ \Phi_{(A_8, B_{13}, C_1)}$$

$$+A_8^+ B_{13}^+ \Phi_{(C_1, D_2)}$$

$$+C_1^+ D_2^+ \Phi_{(A_8, B_{13})}$$

$$+A_8^+ B_{13}^+ C_1^+ \Phi_{(D_2,)}$$

$$+A_8^+ B_{13}^+ D_2^+ \Phi_{(C_1,)}$$

$$+A_8^+ B_{13}^+ C_1^+ D_2^+ \Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{13}, C_1, D_3)} = \\
&+C_1^+ \Phi_{(A_8, B_{13}, D_3)} \\
&+D_3^+ \Phi_{(A_8, B_{13}, C_1)} \\
&+A_8^+ B_{13}^+ \Phi_{(C_1, D_3)} \\
&+C_1^+ D_3^+ \Phi_{(A_8, B_{13})} \\
&+A_8^+ B_{13}^+ C_1^+ \Phi_{(D_3,)} \\
&+A_8^+ B_{13}^+ D_3^+ \Phi_{(C_1,)} \\
&+A_8^+ B_{13}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{13}, C_2, D_1)} = \\
&+C_2^+ \Phi_{(A_8, B_{13}, D_1)} \\
&+D_1^+ \Phi_{(A_8, B_{13}, C_2)} \\
&+A_8^+ B_{13}^+ \Phi_{(C_2, D_1)} \\
&+C_2^+ D_1^+ \Phi_{(A_8, B_{13})} \\
&+A_8^+ B_{13}^+ C_2^+ \Phi_{(D_1,)} \\
&+A_8^+ B_{13}^+ D_1^+ \Phi_{(C_2,)} \\
&+A_8^+ B_{13}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{13}, C_2, D_2)} = \\
&+C_2^+ \Phi_{(A_8, B_{13}, D_2)} \\
&+D_2^+ \Phi_{(A_8, B_{13}, C_2)} \\
&+A_8^+ B_{13}^+ \Phi_{(C_2, D_2)} \\
&+C_2^+ D_2^+ \Phi_{(A_8, B_{13})} \\
&+A_8^+ B_{13}^+ C_2^+ \Phi_{(D_2,)} \\
&+A_8^+ B_{13}^+ D_2^+ \Phi_{(C_2,)} \\
&+A_8^+ B_{13}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_8, B_{13}, C_2, D_3)} =$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_8, B_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_8, B_{13}, C_2)} \\
& +A_8^+ B_{13}^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_2^+ \Phi_{(D_3,)} \\
& +A_8^+ B_{13}^+ D_3^+ \Phi_{(C_2,)} \\
& +A_8^+ B_{13}^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_8, B_{13}, D_1)} \\
& +D_1^+ \Phi_{(A_8, B_{13}, C_3)} \\
& +A_8^+ B_{13}^+ \Phi_{(C_3, D_1)} \\
& +C_3^+ D_1^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_3^+ \Phi_{(D_1,)} \\
& +A_8^+ B_{13}^+ D_1^+ \Phi_{(C_3,)} \\
& +A_8^+ B_{13}^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_8, B_{13}, D_2)} \\
& +D_2^+ \Phi_{(A_8, B_{13}, C_3)} \\
& +A_8^+ B_{13}^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_3^+ \Phi_{(D_2,)} \\
& +A_8^+ B_{13}^+ D_2^+ \Phi_{(C_3,)} \\
& +A_8^+ B_{13}^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_8, B_{13}, D_3)} \\
& +D_3^+ \Phi_{(A_8, B_{13}, C_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_8^+ B_{13}^+ \Phi_{(C_3, D_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_3^+ \Phi_{(D_3,)} \\
& +A_8^+ B_{13}^+ D_3^+ \Phi_{(C_3,)} \\
& +A_8^+ B_{13}^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_4, D_5)} = \\
& +A_8^+ B_{13}^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_5, D_4)} = \\
& +A_8^+ B_{13}^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_6, D_{15})} = \\
& +A_8^+ B_{13}^+ \Phi_{(C_6, D_{15})} \\
& +C_6^+ D_{15}^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_7, D_{13})} = \\
& +A_8^+ B_{13}^+ \Phi_{(C_7, D_{13})} \\
& +A_8^+ D_{13}^+ \Phi_{(B_{13}, C_7)} \\
& +B_{13}^+ C_7^+ \Phi_{(A_8, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_8, B_{13}, C_7, D_{14})} =$$

$$\begin{aligned}
& +A_8^+ B_{13}^+ \Phi_{(C_7, D_{14})} \\
& +A_8^+ D_{14}^+ \Phi_{(B_{13}, C_7)} \\
& +B_{13}^+ C_7^+ \Phi_{(A_8, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_8, D_{13})} = \\
& +A_8^+ B_{13}^+ \Phi_{(C_8, D_{13})} \\
& +A_8^+ D_{13}^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_8, D_{14})} = \\
& +A_8^+ B_{13}^+ \Phi_{(C_8, D_{14})} \\
& +A_8^+ D_{14}^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_8, D_{14})} \\
& +C_8^+ D_{14}^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_9, D_{11})} = \\
& +A_8^+ B_{13}^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{13}, C_9, D_{12})} = \\
& +A_8^+ B_{13}^+ \Phi_{(C_9, D_{12})} \\
& +C_9^+ D_{12}^+ \Phi_{(A_8, B_{13})} \\
& +A_8^+ B_{13}^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{13}, C_{10}, D_{11})} = \\
&+A_8^+ B_{13}^+ \Phi_{(C_{10}, D_{11})} \\
&+C_{10}^+ D_{11}^+ \Phi_{(A_8, B_{13})} \\
&+A_8^+ B_{13}^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{13}, C_{10}, D_{12})} = \\
&+A_8^+ B_{13}^+ \Phi_{(C_{10}, D_{12})} \\
&+C_{10}^+ D_{12}^+ \Phi_{(A_8, B_{13})} \\
&+A_8^+ B_{13}^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{13}, C_{11}, D_9)} = \\
&+A_8^+ B_{13}^+ \Phi_{(C_{11}, D_9)} \\
&+C_{11}^+ D_9^+ \Phi_{(A_8, B_{13})} \\
&+A_8^+ B_{13}^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{13}, C_{11}, D_{10})} = \\
&+A_8^+ B_{13}^+ \Phi_{(C_{11}, D_{10})} \\
&+C_{11}^+ D_{10}^+ \Phi_{(A_8, B_{13})} \\
&+A_8^+ B_{13}^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{13}, C_{12}, D_9)} = \\
&+A_8^+ B_{13}^+ \Phi_{(C_{12}, D_9)} \\
&+C_{12}^+ D_9^+ \Phi_{(A_8, B_{13})} \\
&+A_8^+ B_{13}^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{13}, C_{12}, D_{10})} = \\
&+A_8^+ B_{13}^+ \Phi_{(C_{12}, D_{10})} \\
&+C_{12}^+ D_{10}^+ \Phi_{(A_8, B_{13})}
\end{aligned}$$

$$+A_8^+B_{13}^+C_{12}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_8,B_{13},C_{13},D_7)} =$$

$$+A_8^+B_{13}^+\Phi_{(C_{13},D_7)}$$

$$-A_8^+C_{13}^+\Phi_{(B_{13},D_7)}$$

$$-B_{13}^+D_7^+\Phi_{(A_8,C_{13})}$$

$$+C_{13}^+D_7^+\Phi_{(A_8,B_{13})}$$

$$+A_8^+B_{13}^+C_{13}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_8,B_{13},C_{13},D_8)} =$$

$$+A_8^+B_{13}^+\Phi_{(C_{13},D_8)}$$

$$-A_8^+C_{13}^+\Phi_{(B_{13},D_8)}$$

$$-B_{13}^+D_8^+\Phi_{(A_8,C_{13})}$$

$$+C_{13}^+D_8^+\Phi_{(A_8,B_{13})}$$

$$+A_8^+B_{13}^+C_{13}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_8,B_{13},C_{14},D_7)} =$$

$$+A_8^+B_{13}^+\Phi_{(C_{14},D_7)}$$

$$-A_8^+C_{14}^+\Phi_{(B_{13},D_7)}$$

$$-B_{13}^+D_7^+\Phi_{(A_8,C_{14})}$$

$$+C_{14}^+D_7^+\Phi_{(A_8,B_{13})}$$

$$+A_8^+B_{13}^+C_{14}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_8,B_{13},C_{14},D_8)} =$$

$$+A_8^+B_{13}^+\Phi_{(C_{14},D_8)}$$

$$-A_8^+C_{14}^+\Phi_{(B_{13},D_8)}$$

$$-B_{13}^+D_8^+\Phi_{(A_8,C_{14})}$$

$$+C_{14}^+D_8^+\Phi_{(A_8,B_{13})}$$

$$+A_8^+B_{13}^+C_{14}^+D_8^+\Phi_{()}$$

$$\begin{aligned}
\Phi_{(A_8, B_{13}, C_{15}, D_6)} = & \\
& + A_8^+ B_{13}^+ \Phi_{(C_{15}, D_6)} \\
& + C_{15}^+ D_6^+ \Phi_{(A_8, B_{13})} \\
& + A_8^+ B_{13}^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{14}, C_1, D_1)} = & \\
& + C_1^+ \Phi_{(A_8, B_{14}, D_1)} \\
& + D_1^+ \Phi_{(A_8, B_{14}, C_1)} \\
& + A_8^+ B_{14}^+ \Phi_{(C_1, D_1)} \\
& + C_1^+ D_1^+ \Phi_{(A_8, B_{14})} \\
& + A_8^+ B_{14}^+ C_1^+ \Phi_{(D_1,)} \\
& + A_8^+ B_{14}^+ D_1^+ \Phi_{(C_1,)} \\
& + A_8^+ B_{14}^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{14}, C_1, D_2)} = & \\
& + C_1^+ \Phi_{(A_8, B_{14}, D_2)} \\
& + D_2^+ \Phi_{(A_8, B_{14}, C_1)} \\
& + A_8^+ B_{14}^+ \Phi_{(C_1, D_2)} \\
& + C_1^+ D_2^+ \Phi_{(A_8, B_{14})} \\
& + A_8^+ B_{14}^+ C_1^+ \Phi_{(D_2,)} \\
& + A_8^+ B_{14}^+ D_2^+ \Phi_{(C_1,)} \\
& + A_8^+ B_{14}^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{14}, C_1, D_3)} = & \\
& + C_1^+ \Phi_{(A_8, B_{14}, D_3)} \\
& + D_3^+ \Phi_{(A_8, B_{14}, C_1)} \\
& + A_8^+ B_{14}^+ \Phi_{(C_1, D_3)} \\
& + C_1^+ D_3^+ \Phi_{(A_8, B_{14})}
\end{aligned}$$

$$\begin{aligned}
& +A_8^+ B_{14}^+ C_1^+ \Phi_{(D_3,)} \\
& +A_8^+ B_{14}^+ D_3^+ \Phi_{(C_1,)} \\
& +A_8^+ B_{14}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{14}, C_2, D_1)} = \\
& +C_2^+ \Phi_{(A_8, B_{14}, D_1)} \\
& +D_1^+ \Phi_{(A_8, B_{14}, C_2)} \\
& +A_8^+ B_{14}^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_8, B_{14})} \\
& +A_8^+ B_{14}^+ C_2^+ \Phi_{(D_1,)} \\
& +A_8^+ B_{14}^+ D_1^+ \Phi_{(C_2,)} \\
& +A_8^+ B_{14}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{14}, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_8, B_{14}, D_2)} \\
& +D_2^+ \Phi_{(A_8, B_{14}, C_2)} \\
& +A_8^+ B_{14}^+ \Phi_{(C_2, D_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_8, B_{14})} \\
& +A_8^+ B_{14}^+ C_2^+ \Phi_{(D_2,)} \\
& +A_8^+ B_{14}^+ D_2^+ \Phi_{(C_2,)} \\
& +A_8^+ B_{14}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8, B_{14}, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_8, B_{14}, D_3)} \\
& +D_3^+ \Phi_{(A_8, B_{14}, C_2)} \\
& +A_8^+ B_{14}^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_8, B_{14})} \\
& +A_8^+ B_{14}^+ C_2^+ \Phi_{(D_3,)} \\
& +A_8^+ B_{14}^+ D_3^+ \Phi_{(C_2,)}
\end{aligned}$$

$$+A_8^+ B_{14}^+ C_2^+ D_3^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_8, B_{14}, C_3, D_1)} = & \\ & +C_3^+ \Phi_{(A_8, B_{14}, D_1)} \\ & +D_1^+ \Phi_{(A_8, B_{14}, C_3)} \\ & +A_8^+ B_{14}^+ \Phi_{(C_3, D_1)} \\ & +C_3^+ D_1^+ \Phi_{(A_8, B_{14})} \\ & +A_8^+ B_{14}^+ C_3^+ \Phi_{(D_1,)} \\ & +A_8^+ B_{14}^+ D_1^+ \Phi_{(C_3,)} \\ & +A_8^+ B_{14}^+ C_3^+ D_1^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_8, B_{14}, C_3, D_2)} = & \\ & +C_3^+ \Phi_{(A_8, B_{14}, D_2)} \\ & +D_2^+ \Phi_{(A_8, B_{14}, C_3)} \\ & +A_8^+ B_{14}^+ \Phi_{(C_3, D_2)} \\ & +C_3^+ D_2^+ \Phi_{(A_8, B_{14})} \\ & +A_8^+ B_{14}^+ C_3^+ \Phi_{(D_2,)} \\ & +A_8^+ B_{14}^+ D_2^+ \Phi_{(C_3,)} \\ & +A_8^+ B_{14}^+ C_3^+ D_2^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_8, B_{14}, C_3, D_3)} = & \\ & +C_3^+ \Phi_{(A_8, B_{14}, D_3)} \\ & +D_3^+ \Phi_{(A_8, B_{14}, C_3)} \\ & +A_8^+ B_{14}^+ \Phi_{(C_3, D_3)} \\ & +C_3^+ D_3^+ \Phi_{(A_8, B_{14})} \\ & +A_8^+ B_{14}^+ C_3^+ \Phi_{(D_3,)} \\ & +A_8^+ B_{14}^+ D_3^+ \Phi_{(C_3,)} \\ & +A_8^+ B_{14}^+ C_3^+ D_3^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_4, D_5)} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_4, D_5)} \\
&+C_4^+ D_5^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_5, D_4)} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_5, D_4)} \\
&+C_5^+ D_4^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_6, D_{15})} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_6, D_{15})} \\
&+C_6^+ D_{15}^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_7, D_{13})} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_7, D_{13})} \\
&+A_8^+ D_{13}^+ \Phi_{(B_{14}, C_7)} \\
&+B_{14}^+ C_7^+ \Phi_{(A_8, D_{13})} \\
&+C_7^+ D_{13}^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_7, D_{14})} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_7, D_{14})} \\
&+A_8^+ D_{14}^+ \Phi_{(B_{14}, C_7)} \\
&+B_{14}^+ C_7^+ \Phi_{(A_8, D_{14})} \\
&+C_7^+ D_{14}^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_8, D_{13})} = \\
&+ A_8^+ B_{14}^+ \Phi_{(C_8, D_{13})} \\
&+ A_8^+ D_{13}^+ \Phi_{(B_{14}, C_8)} \\
&+ B_{14}^+ C_8^+ \Phi_{(A_8, D_{13})} \\
&+ C_8^+ D_{13}^+ \Phi_{(A_8, B_{14})} \\
&+ A_8^+ B_{14}^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_8, D_{14})} = \\
&+ A_8^+ B_{14}^+ \Phi_{(C_8, D_{14})} \\
&+ A_8^+ D_{14}^+ \Phi_{(B_{14}, C_8)} \\
&+ B_{14}^+ C_8^+ \Phi_{(A_8, D_{14})} \\
&+ C_8^+ D_{14}^+ \Phi_{(A_8, B_{14})} \\
&+ A_8^+ B_{14}^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_9, D_{11})} = \\
&+ A_8^+ B_{14}^+ \Phi_{(C_9, D_{11})} \\
&+ C_9^+ D_{11}^+ \Phi_{(A_8, B_{14})} \\
&+ A_8^+ B_{14}^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_9, D_{12})} = \\
&+ A_8^+ B_{14}^+ \Phi_{(C_9, D_{12})} \\
&+ C_9^+ D_{12}^+ \Phi_{(A_8, B_{14})} \\
&+ A_8^+ B_{14}^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_{10}, D_{11})} = \\
&+ A_8^+ B_{14}^+ \Phi_{(C_{10}, D_{11})} \\
&+ C_{10}^+ D_{11}^+ \Phi_{(A_8, B_{14})} \\
&+ A_8^+ B_{14}^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_{10}, D_{12})} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_{10}, D_{12})} \\
&+C_{10}^+ D_{12}^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_{11}, D_9)} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_{11}, D_9)} \\
&+C_{11}^+ D_9^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_{11}, D_{10})} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_{11}, D_{10})} \\
&+C_{11}^+ D_{10}^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_{12}, D_9)} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_{12}, D_9)} \\
&+C_{12}^+ D_9^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_{12}, D_{10})} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_{12}, D_{10})} \\
&+C_{12}^+ D_{10}^+ \Phi_{(A_8, B_{14})} \\
&+A_8^+ B_{14}^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{14}, C_{13}, D_7)} = \\
&+A_8^+ B_{14}^+ \Phi_{(C_{13}, D_7)} \\
&-A_8^+ C_{13}^+ \Phi_{(B_{14}, D_7)} \\
&-B_{14}^+ D_7^+ \Phi_{(A_8, C_{13})}
\end{aligned}$$

$$\begin{aligned}
& +C_{13}^+D_7^+\Phi_{(A_8,B_{14})} \\
& +A_8^+B_{14}^+C_{13}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8,B_{14},C_{13},D_8)} = \\
& +A_8^+B_{14}^+\Phi_{(C_{13},D_8)} \\
& -A_8^+C_{13}^+\Phi_{(B_{14},D_8)} \\
& -B_{14}^+D_8^+\Phi_{(A_8,C_{13})} \\
& +C_{13}^+D_8^+\Phi_{(A_8,B_{14})} \\
& +A_8^+B_{14}^+C_{13}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8,B_{14},C_{14},D_7)} = \\
& +A_8^+B_{14}^+\Phi_{(C_{14},D_7)} \\
& -A_8^+C_{14}^+\Phi_{(B_{14},D_7)} \\
& -B_{14}^+D_7^+\Phi_{(A_8,C_{14})} \\
& +C_{14}^+D_7^+\Phi_{(A_8,B_{14})} \\
& +A_8^+B_{14}^+C_{14}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8,B_{14},C_{14},D_8)} = \\
& +A_8^+B_{14}^+\Phi_{(C_{14},D_8)} \\
& -A_8^+C_{14}^+\Phi_{(B_{14},D_8)} \\
& -B_{14}^+D_8^+\Phi_{(A_8,C_{14})} \\
& +C_{14}^+D_8^+\Phi_{(A_8,B_{14})} \\
& +A_8^+B_{14}^+C_{14}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_8,B_{14},C_{15},D_6)} = \\
& +A_8^+B_{14}^+\Phi_{(C_{15},D_6)} \\
& +C_{15}^+D_6^+\Phi_{(A_8,B_{14})} \\
& +A_8^+B_{14}^+C_{15}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{15}, C_1, D_9)} = \\
&+C_1^+ \Phi_{(A_8, B_{15}, D_9)} \\
&+A_8^+ B_{15}^+ D_9^+ \Phi_{(C_1,)} \\
&+A_8^+ B_{15}^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{15}, C_1, D_{10})} = \\
&+C_1^+ \Phi_{(A_8, B_{15}, D_{10})} \\
&+A_8^+ B_{15}^+ D_{10}^+ \Phi_{(C_1,)} \\
&+A_8^+ B_{15}^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{15}, C_2, D_9)} = \\
&+C_2^+ \Phi_{(A_8, B_{15}, D_9)} \\
&+A_8^+ B_{15}^+ D_9^+ \Phi_{(C_2,)} \\
&+A_8^+ B_{15}^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{15}, C_2, D_{10})} = \\
&+C_2^+ \Phi_{(A_8, B_{15}, D_{10})} \\
&+A_8^+ B_{15}^+ D_{10}^+ \Phi_{(C_2,)} \\
&+A_8^+ B_{15}^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{15}, C_3, D_9)} = \\
&+C_3^+ \Phi_{(A_8, B_{15}, D_9)} \\
&+A_8^+ B_{15}^+ D_9^+ \Phi_{(C_3,)} \\
&+A_8^+ B_{15}^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{15}, C_3, D_{10})} = \\
&+C_3^+ \Phi_{(A_8, B_{15}, D_{10})} \\
&+A_8^+ B_{15}^+ D_{10}^+ \Phi_{(C_3,)} \\
&+A_8^+ B_{15}^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_{15}, C_5, D_7)} = \\ + A_8^+ B_{15}^+ C_5^+ D_7^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_{15}, C_5, D_8)} = \\ + A_8^+ B_{15}^+ C_5^+ D_8^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_{15}, C_6, D_{13})} = \\ + A_8^+ D_{13}^+ \Phi_{(B_{15}, C_6)} \\ + B_{15}^+ C_6^+ \Phi_{(A_8, D_{13})} \\ + A_8^+ B_{15}^+ C_6^+ D_{13}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_{15}, C_6, D_{14})} = \\ + A_8^+ D_{14}^+ \Phi_{(B_{15}, C_6)} \\ + B_{15}^+ C_6^+ \Phi_{(A_8, D_{14})} \\ + A_8^+ B_{15}^+ C_6^+ D_{14}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_{15}, C_7, D_5)} = \\ + A_8^+ B_{15}^+ C_7^+ D_5^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_{15}, C_8, D_5)} = \\ + A_8^+ B_{15}^+ C_8^+ D_5^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_8, B_{15}, C_9, D_1)} = \\ + D_1^+ \Phi_{(A_8, B_{15}, C_9)} \\ + A_8^+ B_{15}^+ C_9^+ \Phi_{(D_1,)} \\ + A_8^+ B_{15}^+ C_9^+ D_1^+ \Phi_{()}\end{aligned}$$

$$\Phi_{(A_8, B_{15}, C_9, D_2)} =$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_8, B_{15}, C_9)} \\
& +A_8^+ B_{15}^+ C_9^+ \Phi_{(D_2,)} \\
& +A_8^+ B_{15}^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{15}, C_9, D_3)} = \\
& +D_3^+ \Phi_{(A_8, B_{15}, C_9)} \\
& +A_8^+ B_{15}^+ C_9^+ \Phi_{(D_3,)} \\
& +A_8^+ B_{15}^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{15}, C_{10}, D_1)} = \\
& +D_1^+ \Phi_{(A_8, B_{15}, C_{10})} \\
& +A_8^+ B_{15}^+ C_{10}^+ \Phi_{(D_1,)} \\
& +A_8^+ B_{15}^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{15}, C_{10}, D_2)} = \\
& +D_2^+ \Phi_{(A_8, B_{15}, C_{10})} \\
& +A_8^+ B_{15}^+ C_{10}^+ \Phi_{(D_2,)} \\
& +A_8^+ B_{15}^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{15}, C_{10}, D_3)} = \\
& +D_3^+ \Phi_{(A_8, B_{15}, C_{10})} \\
& +A_8^+ B_{15}^+ C_{10}^+ \Phi_{(D_3,)} \\
& +A_8^+ B_{15}^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_8, B_{15}, C_{13}, D_6)} = \\
& +A_8^+ C_{13}^+ \Phi_{(B_{15}, D_6)} \\
& +B_{15}^+ D_6^+ \Phi_{(A_8, C_{13})} \\
& +A_8^+ B_{15}^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_8, B_{15}, C_{14}, D_6)} = \\
&+ A_8^+ C_{14}^+ \Phi_{(B_{15}, D_6)} \\
&+ B_{15}^+ D_6^+ \Phi_{(A_8, C_{14})} \\
&+ A_8^+ B_{15}^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_1, C_1, D_{11})} = \\
&+ B_1^+ \Phi_{(A_9, C_1, D_{11})} \\
&+ C_1^+ \Phi_{(A_9, B_1, D_{11})} \\
&+ A_9^+ D_{11}^+ \Phi_{(B_1, C_1)} \\
&+ B_1^+ C_1^+ \Phi_{(A_9, D_{11})} \\
&+ A_9^+ B_1^+ D_{11}^+ \Phi_{(C_1,)} \\
&+ A_9^+ C_1^+ D_{11}^+ \Phi_{(B_1,)} \\
&+ A_9^+ B_1^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_1, C_1, D_{12})} = \\
&+ B_1^+ \Phi_{(A_9, C_1, D_{12})} \\
&+ C_1^+ \Phi_{(A_9, B_1, D_{12})} \\
&+ A_9^+ D_{12}^+ \Phi_{(B_1, C_1)} \\
&+ B_1^+ C_1^+ \Phi_{(A_9, D_{12})} \\
&+ A_9^+ B_1^+ D_{12}^+ \Phi_{(C_1,)} \\
&+ A_9^+ C_1^+ D_{12}^+ \Phi_{(B_1,)} \\
&+ A_9^+ B_1^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_1, C_2, D_{11})} = \\
&+ B_1^+ \Phi_{(A_9, C_2, D_{11})} \\
&+ C_2^+ \Phi_{(A_9, B_1, D_{11})} \\
&+ A_9^+ D_{11}^+ \Phi_{(B_1, C_2)} \\
&+ B_1^+ C_2^+ \Phi_{(A_9, D_{11})} \\
&+ A_9^+ B_1^+ D_{11}^+ \Phi_{(C_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_9^+ C_2^+ D_{11}^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_1, C_2, D_{12})} = & \\
& +B_1^+ \Phi_{(A_9, C_2, D_{12})} \\
& +C_2^+ \Phi_{(A_9, B_1, D_{12})} \\
& +A_9^+ D_{12}^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_9, D_{12})} \\
& +A_9^+ B_1^+ D_{12}^+ \Phi_{(C_2,)} \\
& +A_9^+ C_2^+ D_{12}^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_1, C_3, D_{11})} = & \\
& +B_1^+ \Phi_{(A_9, C_3, D_{11})} \\
& +C_3^+ \Phi_{(A_9, B_1, D_{11})} \\
& +A_9^+ D_{11}^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_9, D_{11})} \\
& +A_9^+ B_1^+ D_{11}^+ \Phi_{(C_3,)} \\
& +A_9^+ C_3^+ D_{11}^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_1, C_3, D_{12})} = & \\
& +B_1^+ \Phi_{(A_9, C_3, D_{12})} \\
& +C_3^+ \Phi_{(A_9, B_1, D_{12})} \\
& +A_9^+ D_{12}^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_9, D_{12})} \\
& +A_9^+ B_1^+ D_{12}^+ \Phi_{(C_3,)} \\
& +A_9^+ C_3^+ D_{12}^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_4, D_{13})} = \\
& + B_1^+ \Phi_{(A_9, C_4, D_{13})} \\
& + A_9^+ C_4^+ D_{13}^+ \Phi_{(B_1,)} \\
& + A_9^+ B_1^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_4, D_{14})} = \\
& + B_1^+ \Phi_{(A_9, C_4, D_{14})} \\
& + A_9^+ C_4^+ D_{14}^+ \Phi_{(B_1,)} \\
& + A_9^+ B_1^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_7, D_{15})} = \\
& + B_1^+ \Phi_{(A_9, C_7, D_{15})} \\
& + A_9^+ C_7^+ D_{15}^+ \Phi_{(B_1,)} \\
& + A_9^+ B_1^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_8, D_{15})} = \\
& + B_1^+ \Phi_{(A_9, C_8, D_{15})} \\
& + A_9^+ C_8^+ D_{15}^+ \Phi_{(B_1,)} \\
& + A_9^+ B_1^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_{11}, D_1)} = \\
& + B_1^+ \Phi_{(A_9, C_{11}, D_1)} \\
& + D_1^+ \Phi_{(A_9, B_1, C_{11})} \\
& + A_9^+ C_{11}^+ \Phi_{(B_1, D_1)} \\
& + B_1^+ D_1^+ \Phi_{(A_9, C_{11})} \\
& + A_9^+ B_1^+ C_{11}^+ \Phi_{(D_1,)} \\
& + A_9^+ C_{11}^+ D_1^+ \Phi_{(B_1,)} \\
& + A_9^+ B_1^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_{11}, D_2)} = \\
& + B_1^+ \Phi_{(A_9, C_{11}, D_2)} \\
& + D_2^+ \Phi_{(A_9, B_1, C_{11})} \\
& + A_9^+ C_{11}^+ \Phi_{(B_1, D_2)} \\
& + B_1^+ D_2^+ \Phi_{(A_9, C_{11})} \\
& + A_9^+ B_1^+ C_{11}^+ \Phi_{(D_2,)} \\
& + A_9^+ C_{11}^+ D_2^+ \Phi_{(B_1,)} \\
& + A_9^+ B_1^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_{11}, D_3)} = \\
& + B_1^+ \Phi_{(A_9, C_{11}, D_3)} \\
& + D_3^+ \Phi_{(A_9, B_1, C_{11})} \\
& + A_9^+ C_{11}^+ \Phi_{(B_1, D_3)} \\
& + B_1^+ D_3^+ \Phi_{(A_9, C_{11})} \\
& + A_9^+ B_1^+ C_{11}^+ \Phi_{(D_3,)} \\
& + A_9^+ C_{11}^+ D_3^+ \Phi_{(B_1,)} \\
& + A_9^+ B_1^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_{12}, D_1)} = \\
& + B_1^+ \Phi_{(A_9, C_{12}, D_1)} \\
& + D_1^+ \Phi_{(A_9, B_1, C_{12})} \\
& + A_9^+ C_{12}^+ \Phi_{(B_1, D_1)} \\
& + B_1^+ D_1^+ \Phi_{(A_9, C_{12})} \\
& + A_9^+ B_1^+ C_{12}^+ \Phi_{(D_1,)} \\
& + A_9^+ C_{12}^+ D_1^+ \Phi_{(B_1,)} \\
& + A_9^+ B_1^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_9, B_1, C_{12}, D_2)} =$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_9, C_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_9, B_1, C_{12})} \\
& +A_9^+ C_{12}^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_9, C_{12})} \\
& +A_9^+ B_1^+ C_{12}^+ \Phi_{(D_2,)} \\
& +A_9^+ C_{12}^+ D_2^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_{12}, D_3)} = \\
& +B_1^+ \Phi_{(A_9, C_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_9, B_1, C_{12})} \\
& +A_9^+ C_{12}^+ \Phi_{(B_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_9, C_{12})} \\
& +A_9^+ B_1^+ C_{12}^+ \Phi_{(D_3,)} \\
& +A_9^+ C_{12}^+ D_3^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_{13}, D_4)} = \\
& +B_1^+ \Phi_{(A_9, C_{13}, D_4)} \\
& +A_9^+ C_{13}^+ D_4^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_{14}, D_4)} = \\
& +B_1^+ \Phi_{(A_9, C_{14}, D_4)} \\
& +A_9^+ C_{14}^+ D_4^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_{15}, D_7)} = \\
& +B_1^+ \Phi_{(A_9, C_{15}, D_7)}
\end{aligned}$$

$$\begin{aligned}
& +A_9^+ C_{15}^+ D_7^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_1, C_{15}, D_8)} = \\
& +B_1^+ \Phi_{(A_9, C_{15}, D_8)} \\
& +A_9^+ C_{15}^+ D_8^+ \Phi_{(B_1,)} \\
& +A_9^+ B_1^+ C_{15}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_1, D_{11})} = \\
& +B_2^+ \Phi_{(A_9, C_1, D_{11})} \\
& +C_1^+ \Phi_{(A_9, B_2, D_{11})} \\
& +A_9^+ D_{11}^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_9, D_{11})} \\
& +A_9^+ B_2^+ D_{11}^+ \Phi_{(C_1,)} \\
& +A_9^+ C_1^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_1, D_{12})} = \\
& +B_2^+ \Phi_{(A_9, C_1, D_{12})} \\
& +C_1^+ \Phi_{(A_9, B_2, D_{12})} \\
& +A_9^+ D_{12}^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_9, D_{12})} \\
& +A_9^+ B_2^+ D_{12}^+ \Phi_{(C_1,)} \\
& +A_9^+ C_1^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_2, D_{11})} = \\
& +B_2^+ \Phi_{(A_9, C_2, D_{11})} \\
& +C_2^+ \Phi_{(A_9, B_2, D_{11})}
\end{aligned}$$

$$\begin{aligned}
& +A_9^+ D_{11}^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_9, D_{11})} \\
& +A_9^+ B_2^+ D_{11}^+ \Phi_{(C_2,)} \\
& +A_9^+ C_2^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_2, D_{12})} = \\
& +B_2^+ \Phi_{(A_9, C_2, D_{12})} \\
& +C_2^+ \Phi_{(A_9, B_2, D_{12})} \\
& +A_9^+ D_{12}^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_9, D_{12})} \\
& +A_9^+ B_2^+ D_{12}^+ \Phi_{(C_2,)} \\
& +A_9^+ C_2^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_3, D_{11})} = \\
& +B_2^+ \Phi_{(A_9, C_3, D_{11})} \\
& +C_3^+ \Phi_{(A_9, B_2, D_{11})} \\
& +A_9^+ D_{11}^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_9, D_{11})} \\
& +A_9^+ B_2^+ D_{11}^+ \Phi_{(C_3,)} \\
& +A_9^+ C_3^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_3, D_{12})} = \\
& +B_2^+ \Phi_{(A_9, C_3, D_{12})} \\
& +C_3^+ \Phi_{(A_9, B_2, D_{12})} \\
& +A_9^+ D_{12}^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_9, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +A_9^+ B_2^+ D_{12}^+ \Phi_{(C_3,)} \\
& +A_9^+ C_3^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_4, D_{13})} = \\
& +B_2^+ \Phi_{(A_9, C_4, D_{13})} \\
& +A_9^+ C_4^+ D_{13}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_4, D_{14})} = \\
& +B_2^+ \Phi_{(A_9, C_4, D_{14})} \\
& +A_9^+ C_4^+ D_{14}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_7, D_{15})} = \\
& +B_2^+ \Phi_{(A_9, C_7, D_{15})} \\
& +A_9^+ C_7^+ D_{15}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_8, D_{15})} = \\
& +B_2^+ \Phi_{(A_9, C_8, D_{15})} \\
& +A_9^+ C_8^+ D_{15}^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_2, C_{11}, D_1)} = \\
& +B_2^+ \Phi_{(A_9, C_{11}, D_1)} \\
& +D_1^+ \Phi_{(A_9, B_2, C_{11})} \\
& +A_9^+ C_{11}^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_9, C_{11})}
\end{aligned}$$

$$\begin{aligned}
& +A_9^+ B_2^+ C_{11}^+ \Phi_{(D_1,)} \\
& +A_9^+ C_{11}^+ D_1^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_2, C_{11}, D_2)} = \\
& +B_2^+ \Phi_{(A_9, C_{11}, D_2)} \\
& +D_2^+ \Phi_{(A_9, B_2, C_{11})} \\
& +A_9^+ C_{11}^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_9, C_{11})} \\
& +A_9^+ B_2^+ C_{11}^+ \Phi_{(D_2,)} \\
& +A_9^+ C_{11}^+ D_2^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_2, C_{11}, D_3)} = \\
& +B_2^+ \Phi_{(A_9, C_{11}, D_3)} \\
& +D_3^+ \Phi_{(A_9, B_2, C_{11})} \\
& +A_9^+ C_{11}^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_9, C_{11})} \\
& +A_9^+ B_2^+ C_{11}^+ \Phi_{(D_3,)} \\
& +A_9^+ C_{11}^+ D_3^+ \Phi_{(B_2,)} \\
& +A_9^+ B_2^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_2, C_{12}, D_1)} = \\
& +B_2^+ \Phi_{(A_9, C_{12}, D_1)} \\
& +D_1^+ \Phi_{(A_9, B_2, C_{12})} \\
& +A_9^+ C_{12}^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_9, C_{12})} \\
& +A_9^+ B_2^+ C_{12}^+ \Phi_{(D_1,)} \\
& +A_9^+ C_{12}^+ D_1^+ \Phi_{(B_2,)}
\end{aligned}$$

$$+A_9^+ B_2^+ C_{12}^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_2, C_{12}, D_2)} =$$

$$+B_2^+ \Phi_{(A_9, C_{12}, D_2)}$$

$$+D_2^+ \Phi_{(A_9, B_2, C_{12})}$$

$$+A_9^+ C_{12}^+ \Phi_{(B_2, D_2)}$$

$$+B_2^+ D_2^+ \Phi_{(A_9, C_{12})}$$

$$+A_9^+ B_2^+ C_{12}^+ \Phi_{(D_2,)}$$

$$+A_9^+ C_{12}^+ D_2^+ \Phi_{(B_2,)}$$

$$+A_9^+ B_2^+ C_{12}^+ D_2^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_2, C_{12}, D_3)} =$$

$$+B_2^+ \Phi_{(A_9, C_{12}, D_3)}$$

$$+D_3^+ \Phi_{(A_9, B_2, C_{12})}$$

$$+A_9^+ C_{12}^+ \Phi_{(B_2, D_3)}$$

$$+B_2^+ D_3^+ \Phi_{(A_9, C_{12})}$$

$$+A_9^+ B_2^+ C_{12}^+ \Phi_{(D_3,)}$$

$$+A_9^+ C_{12}^+ D_3^+ \Phi_{(B_2,)}$$

$$+A_9^+ B_2^+ C_{12}^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_2, C_{13}, D_4)} =$$

$$+B_2^+ \Phi_{(A_9, C_{13}, D_4)}$$

$$+A_9^+ C_{13}^+ D_4^+ \Phi_{(B_2,)}$$

$$+A_9^+ B_2^+ C_{13}^+ D_4^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_2, C_{14}, D_4)} =$$

$$+B_2^+ \Phi_{(A_9, C_{14}, D_4)}$$

$$+A_9^+ C_{14}^+ D_4^+ \Phi_{(B_2,)}$$

$$+A_9^+ B_2^+ C_{14}^+ D_4^+ \Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_9, B_2, C_{15}, D_7)} = \\
&+ B_2^+ \Phi_{(A_9, C_{15}, D_7)} \\
&+ A_9^+ C_{15}^+ D_7^+ \Phi_{(B_2,)} \\
&+ A_9^+ B_2^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_2, C_{15}, D_8)} = \\
&+ B_2^+ \Phi_{(A_9, C_{15}, D_8)} \\
&+ A_9^+ C_{15}^+ D_8^+ \Phi_{(B_2,)} \\
&+ A_9^+ B_2^+ C_{15}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_3, C_1, D_{11})} = \\
&+ B_3^+ \Phi_{(A_9, C_1, D_{11})} \\
&+ C_1^+ \Phi_{(A_9, B_3, D_{11})} \\
&+ A_9^+ D_{11}^+ \Phi_{(B_3, C_1)} \\
&+ B_3^+ C_1^+ \Phi_{(A_9, D_{11})} \\
&+ A_9^+ B_3^+ D_{11}^+ \Phi_{(C_1,)} \\
&+ A_9^+ C_1^+ D_{11}^+ \Phi_{(B_3,)} \\
&+ A_9^+ B_3^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_3, C_1, D_{12})} = \\
&+ B_3^+ \Phi_{(A_9, C_1, D_{12})} \\
&+ C_1^+ \Phi_{(A_9, B_3, D_{12})} \\
&+ A_9^+ D_{12}^+ \Phi_{(B_3, C_1)} \\
&+ B_3^+ C_1^+ \Phi_{(A_9, D_{12})} \\
&+ A_9^+ B_3^+ D_{12}^+ \Phi_{(C_1,)} \\
&+ A_9^+ C_1^+ D_{12}^+ \Phi_{(B_3,)} \\
&+ A_9^+ B_3^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_3, C_2, D_{11})} = \\
&+ B_3^+ \Phi_{(A_9, C_2, D_{11})} \\
&+ C_2^+ \Phi_{(A_9, B_3, D_{11})} \\
&+ A_9^+ D_{11}^+ \Phi_{(B_3, C_2)} \\
&+ B_3^+ C_2^+ \Phi_{(A_9, D_{11})} \\
&+ A_9^+ B_3^+ D_{11}^+ \Phi_{(C_2,)} \\
&+ A_9^+ C_2^+ D_{11}^+ \Phi_{(B_3,)} \\
&+ A_9^+ B_3^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_3, C_2, D_{12})} = \\
&+ B_3^+ \Phi_{(A_9, C_2, D_{12})} \\
&+ C_2^+ \Phi_{(A_9, B_3, D_{12})} \\
&+ A_9^+ D_{12}^+ \Phi_{(B_3, C_2)} \\
&+ B_3^+ C_2^+ \Phi_{(A_9, D_{12})} \\
&+ A_9^+ B_3^+ D_{12}^+ \Phi_{(C_2,)} \\
&+ A_9^+ C_2^+ D_{12}^+ \Phi_{(B_3,)} \\
&+ A_9^+ B_3^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_3, C_3, D_{11})} = \\
&+ B_3^+ \Phi_{(A_9, C_3, D_{11})} \\
&+ C_3^+ \Phi_{(A_9, B_3, D_{11})} \\
&+ A_9^+ D_{11}^+ \Phi_{(B_3, C_3)} \\
&+ B_3^+ C_3^+ \Phi_{(A_9, D_{11})} \\
&+ A_9^+ B_3^+ D_{11}^+ \Phi_{(C_3,)} \\
&+ A_9^+ C_3^+ D_{11}^+ \Phi_{(B_3,)} \\
&+ A_9^+ B_3^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_3, C_3, D_{12})} = \\
&+ B_3^+ \Phi_{(A_9, C_3, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +C_3^+ \Phi_{(A_9, B_3, D_{12})} \\
& +A_9^+ D_{12}^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_9, D_{12})} \\
& +A_9^+ B_3^+ D_{12}^+ \Phi_{(C_3,)} \\
& +A_9^+ C_3^+ D_{12}^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_4, D_{13})} = \\
& +B_3^+ \Phi_{(A_9, C_4, D_{13})} \\
& +A_9^+ C_4^+ D_{13}^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_4, D_{14})} = \\
& +B_3^+ \Phi_{(A_9, C_4, D_{14})} \\
& +A_9^+ C_4^+ D_{14}^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_7, D_{15})} = \\
& +B_3^+ \Phi_{(A_9, C_7, D_{15})} \\
& +A_9^+ C_7^+ D_{15}^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_8, D_{15})} = \\
& +B_3^+ \Phi_{(A_9, C_8, D_{15})} \\
& +A_9^+ C_8^+ D_{15}^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_{11}, D_1)} = \\
& +B_3^+ \Phi_{(A_9, C_{11}, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_9, B_3, C_{11})} \\
& +A_9^+ C_{11}^+ \Phi_{(B_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_9, C_{11})} \\
& +A_9^+ B_3^+ C_{11}^+ \Phi_{(D_1,)} \\
& +A_9^+ C_{11}^+ D_1^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_{11}, D_2)} = \\
& +B_3^+ \Phi_{(A_9, C_{11}, D_2)} \\
& +D_2^+ \Phi_{(A_9, B_3, C_{11})} \\
& +A_9^+ C_{11}^+ \Phi_{(B_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_9, C_{11})} \\
& +A_9^+ B_3^+ C_{11}^+ \Phi_{(D_2,)} \\
& +A_9^+ C_{11}^+ D_2^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_{11}, D_3)} = \\
& +B_3^+ \Phi_{(A_9, C_{11}, D_3)} \\
& +D_3^+ \Phi_{(A_9, B_3, C_{11})} \\
& +A_9^+ C_{11}^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_9, C_{11})} \\
& +A_9^+ B_3^+ C_{11}^+ \Phi_{(D_3,)} \\
& +A_9^+ C_{11}^+ D_3^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_{12}, D_1)} = \\
& +B_3^+ \Phi_{(A_9, C_{12}, D_1)} \\
& +D_1^+ \Phi_{(A_9, B_3, C_{12})} \\
& +A_9^+ C_{12}^+ \Phi_{(B_3, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ D_1^+ \Phi_{(A_9, C_{12})} \\
& +A_9^+ B_3^+ C_{12}^+ \Phi_{(D_1,)} \\
& +A_9^+ C_{12}^+ D_1^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_{12}, D_2)} = \\
& +B_3^+ \Phi_{(A_9, C_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_9, B_3, C_{12})} \\
& +A_9^+ C_{12}^+ \Phi_{(B_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_9, C_{12})} \\
& +A_9^+ B_3^+ C_{12}^+ \Phi_{(D_2,)} \\
& +A_9^+ C_{12}^+ D_2^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_{12}, D_3)} = \\
& +B_3^+ \Phi_{(A_9, C_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_9, B_3, C_{12})} \\
& +A_9^+ C_{12}^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_9, C_{12})} \\
& +A_9^+ B_3^+ C_{12}^+ \Phi_{(D_3,)} \\
& +A_9^+ C_{12}^+ D_3^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{12}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_{13}, D_4)} = \\
& +B_3^+ \Phi_{(A_9, C_{13}, D_4)} \\
& +A_9^+ C_{13}^+ D_4^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{13}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_9, B_3, C_{14}, D_4)} =$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_9, C_{14}, D_4)} \\
& +A_9^+ C_{14}^+ D_4^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{14}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_{15}, D_7)} = \\
& +B_3^+ \Phi_{(A_9, C_{15}, D_7)} \\
& +A_9^+ C_{15}^+ D_7^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{15}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_3, C_{15}, D_8)} = \\
& +B_3^+ \Phi_{(A_9, C_{15}, D_8)} \\
& +A_9^+ C_{15}^+ D_8^+ \Phi_{(B_3,)} \\
& +A_9^+ B_3^+ C_{15}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_4, C_1, D_{13})} = \\
& +C_1^+ \Phi_{(A_9, B_4, D_{13})} \\
& +A_9^+ B_4^+ D_{13}^+ \Phi_{(C_1,)} \\
& +A_9^+ B_4^+ C_1^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_4, C_1, D_{14})} = \\
& +C_1^+ \Phi_{(A_9, B_4, D_{14})} \\
& +A_9^+ B_4^+ D_{14}^+ \Phi_{(C_1,)} \\
& +A_9^+ B_4^+ C_1^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_4, C_2, D_{13})} = \\
& +C_2^+ \Phi_{(A_9, B_4, D_{13})} \\
& +A_9^+ B_4^+ D_{13}^+ \Phi_{(C_2,)} \\
& +A_9^+ B_4^+ C_2^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_4, C_2, D_{14})} = \\
&+C_2^+ \Phi_{(A_9, B_4, D_{14})} \\
&+A_9^+ B_4^+ D_{14}^+ \Phi_{(C_2,)} \\
&+A_9^+ B_4^+ C_2^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_4, C_3, D_{13})} = \\
&+C_3^+ \Phi_{(A_9, B_4, D_{13})} \\
&+A_9^+ B_4^+ D_{13}^+ \Phi_{(C_3,)} \\
&+A_9^+ B_4^+ C_3^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_4, C_3, D_{14})} = \\
&+C_3^+ \Phi_{(A_9, B_4, D_{14})} \\
&+A_9^+ B_4^+ D_{14}^+ \Phi_{(C_3,)} \\
&+A_9^+ B_4^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_4, C_5, D_{11})} = \\
&+A_9^+ D_{11}^+ \Phi_{(B_4, C_5)} \\
&+B_4^+ C_5^+ \Phi_{(A_9, D_{11})} \\
&+A_9^+ B_4^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_4, C_5, D_{12})} = \\
&+A_9^+ D_{12}^+ \Phi_{(B_4, C_5)} \\
&+B_4^+ C_5^+ \Phi_{(A_9, D_{12})} \\
&+A_9^+ B_4^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_4, C_9, D_{15})} = \\
&+A_9^+ B_4^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_9, B_4, C_{10}, D_{15})} =$$

$$+A_9^+ B_4^+ C_{10}^+ D_{15}^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_4, C_{11}, D_5)} =$$

$$+A_9^+ C_{11}^+ \Phi_{(B_4, D_5)} \\$$

$$+B_4^+ D_5^+ \Phi_{(A_9, C_{11})} \\$$

$$+A_9^+ B_4^+ C_{11}^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_4, C_{12}, D_5)} =$$

$$+A_9^+ C_{12}^+ \Phi_{(B_4, D_5)} \\$$

$$+B_4^+ D_5^+ \Phi_{(A_9, C_{12})} \\$$

$$+A_9^+ B_4^+ C_{12}^+ D_5^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_4, C_{13}, D_1)} =$$

$$+D_1^+ \Phi_{(A_9, B_4, C_{13})} \\$$

$$+A_9^+ B_4^+ C_{13}^+ \Phi_{(D_1,)} \\$$

$$+A_9^+ B_4^+ C_{13}^+ D_1^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_4, C_{13}, D_2)} =$$

$$+D_2^+ \Phi_{(A_9, B_4, C_{13})} \\$$

$$+A_9^+ B_4^+ C_{13}^+ \Phi_{(D_2,)} \\$$

$$+A_9^+ B_4^+ C_{13}^+ D_2^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_4, C_{13}, D_3)} =$$

$$+D_3^+ \Phi_{(A_9, B_4, C_{13})} \\$$

$$+A_9^+ B_4^+ C_{13}^+ \Phi_{(D_3,)} \\$$

$$+A_9^+ B_4^+ C_{13}^+ D_3^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_4, C_{14}, D_1)} =$$

$$+D_1^+ \Phi_{(A_9, B_4, C_{14})} \\$$

$$\begin{aligned}
& +A_9^+ B_4^+ C_{14}^+ \Phi_{(D_1,)} \\
& +A_9^+ B_4^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_4, C_{14}, D_2)} = \\
& +D_2^+ \Phi_{(A_9, B_4, C_{14})} \\
& +A_9^+ B_4^+ C_{14}^+ \Phi_{(D_2,)} \\
& +A_9^+ B_4^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_4, C_{14}, D_3)} = \\
& +D_3^+ \Phi_{(A_9, B_4, C_{14})} \\
& +A_9^+ B_4^+ C_{14}^+ \Phi_{(D_3,)} \\
& +A_9^+ B_4^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_4, C_{15}, D_9)} = \\
& +A_9^+ B_4^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_4, C_{15}, D_{10})} = \\
& +A_9^+ B_4^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_5, C_4, D_{11})} = \\
& +A_9^+ D_{11}^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_9, D_{11})} \\
& +A_9^+ B_5^+ C_4^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_5, C_4, D_{12})} = \\
& +A_9^+ D_{12}^+ \Phi_{(B_5, C_4)} \\
& +B_5^+ C_4^+ \Phi_{(A_9, D_{12})} \\
& +A_9^+ B_5^+ C_4^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_5, C_{11}, D_4)} = \\
&+ A_9^+ C_{11}^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_9, C_{11})} \\
&+ A_9^+ B_5^+ C_{11}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_5, C_{12}, D_4)} = \\
&+ A_9^+ C_{12}^+ \Phi_{(B_5, D_4)} \\
&+ B_5^+ D_4^+ \Phi_{(A_9, C_{12})} \\
&+ A_9^+ B_5^+ C_{12}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_6, C_{11}, D_{15})} = \\
&+ A_9^+ C_{11}^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_9, C_{11})} \\
&+ A_9^+ B_6^+ C_{11}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_6, C_{12}, D_{15})} = \\
&+ A_9^+ C_{12}^+ \Phi_{(B_6, D_{15})} \\
&+ B_6^+ D_{15}^+ \Phi_{(A_9, C_{12})} \\
&+ A_9^+ B_6^+ C_{12}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_6, C_{15}, D_{11})} = \\
&+ A_9^+ D_{11}^+ \Phi_{(B_6, C_{15})} \\
&+ B_6^+ C_{15}^+ \Phi_{(A_9, D_{11})} \\
&+ A_9^+ B_6^+ C_{15}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_6, C_{15}, D_{12})} = \\
&+ A_9^+ D_{12}^+ \Phi_{(B_6, C_{15})} \\
&+ B_6^+ C_{15}^+ \Phi_{(A_9, D_{12})} \\
&+ A_9^+ B_6^+ C_{15}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_7, C_1, D_{15})} = \\
&+C_1^+ \Phi_{(A_9, B_7, D_{15})} \\
&+A_9^+ B_7^+ D_{15}^+ \Phi_{(C_1,)} \\
&+A_9^+ B_7^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_7, C_2, D_{15})} = \\
&+C_2^+ \Phi_{(A_9, B_7, D_{15})} \\
&+A_9^+ B_7^+ D_{15}^+ \Phi_{(C_2,)} \\
&+A_9^+ B_7^+ C_2^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_7, C_3, D_{15})} = \\
&+C_3^+ \Phi_{(A_9, B_7, D_{15})} \\
&+A_9^+ B_7^+ D_{15}^+ \Phi_{(C_3,)} \\
&+A_9^+ B_7^+ C_3^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_7, C_{11}, D_{13})} = \\
&-A_9^+ C_{11}^+ \Phi_{(B_7, D_{13})} \\
&-B_7^+ D_{13}^+ \Phi_{(A_9, C_{11})} \\
&+A_9^+ B_7^+ C_{11}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_7, C_{11}, D_{14})} = \\
&-A_9^+ C_{11}^+ \Phi_{(B_7, D_{14})} \\
&-B_7^+ D_{14}^+ \Phi_{(A_9, C_{11})} \\
&+A_9^+ B_7^+ C_{11}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_7, C_{12}, D_{13})} = \\
&-A_9^+ C_{12}^+ \Phi_{(B_7, D_{13})} \\
&-B_7^+ D_{13}^+ \Phi_{(A_9, C_{12})}
\end{aligned}$$

$$+A_9^+ B_7^+ C_{12}^+ D_{13}^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_7, C_{12}, D_{14})} =$$

$$-A_9^+ C_{12}^+ \Phi_{(B_7, D_{14})}$$

$$-B_7^+ D_{14}^+ \Phi_{(A_9, C_{12})}$$

$$+A_9^+ B_7^+ C_{12}^+ D_{14}^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_7, C_{13}, D_{11})} =$$

$$+A_9^+ D_{11}^+ \Phi_{(B_7, C_{13})}$$

$$+B_7^+ C_{13}^+ \Phi_{(A_9, D_{11})}$$

$$+A_9^+ B_7^+ C_{13}^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_7, C_{13}, D_{12})} =$$

$$+A_9^+ D_{12}^+ \Phi_{(B_7, C_{13})}$$

$$+B_7^+ C_{13}^+ \Phi_{(A_9, D_{12})}$$

$$+A_9^+ B_7^+ C_{13}^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_7, C_{14}, D_{11})} =$$

$$+A_9^+ D_{11}^+ \Phi_{(B_7, C_{14})}$$

$$+B_7^+ C_{14}^+ \Phi_{(A_9, D_{11})}$$

$$+A_9^+ B_7^+ C_{14}^+ D_{11}^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_7, C_{14}, D_{12})} =$$

$$+A_9^+ D_{12}^+ \Phi_{(B_7, C_{14})}$$

$$+B_7^+ C_{14}^+ \Phi_{(A_9, D_{12})}$$

$$+A_9^+ B_7^+ C_{14}^+ D_{12}^+ \Phi_{()} \\$$

$$\Phi_{(A_9, B_7, C_{15}, D_1)} =$$

$$+D_1^+ \Phi_{(A_9, B_7, C_{15})}$$

$$\begin{aligned}
& +A_9^+ B_7^+ C_{15}^+ \Phi_{(D_1,)} \\
& +A_9^+ B_7^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_7, C_{15}, D_2)} = \\
& +D_2^+ \Phi_{(A_9, B_7, C_{15})} \\
& +A_9^+ B_7^+ C_{15}^+ \Phi_{(D_2,)} \\
& +A_9^+ B_7^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_7, C_{15}, D_3)} = \\
& +D_3^+ \Phi_{(A_9, B_7, C_{15})} \\
& +A_9^+ B_7^+ C_{15}^+ \Phi_{(D_3,)} \\
& +A_9^+ B_7^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_8, C_1, D_{15})} = \\
& +C_1^+ \Phi_{(A_9, B_8, D_{15})} \\
& +A_9^+ B_8^+ D_{15}^+ \Phi_{(C_1,)} \\
& +A_9^+ B_8^+ C_1^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_8, C_2, D_{15})} = \\
& +C_2^+ \Phi_{(A_9, B_8, D_{15})} \\
& +A_9^+ B_8^+ D_{15}^+ \Phi_{(C_2,)} \\
& +A_9^+ B_8^+ C_2^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_8, C_3, D_{15})} = \\
& +C_3^+ \Phi_{(A_9, B_8, D_{15})} \\
& +A_9^+ B_8^+ D_{15}^+ \Phi_{(C_3,)} \\
& +A_9^+ B_8^+ C_3^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_9, B_8, C_{11}, D_{13})} =$$

$$-A_9^+ C_{11}^+ \Phi_{(B_8, D_{13})}$$

$$-B_8^+ D_{13}^+ \Phi_{(A_9, C_{11})}$$

$$+A_9^+ B_8^+ C_{11}^+ D_{13}^+ \Phi_{()}$$

$$\Phi_{(A_9, B_8, C_{11}, D_{14})} =$$

$$-A_9^+ C_{11}^+ \Phi_{(B_8, D_{14})}$$

$$-B_8^+ D_{14}^+ \Phi_{(A_9, C_{11})}$$

$$+A_9^+ B_8^+ C_{11}^+ D_{14}^+ \Phi_{()}$$

$$\Phi_{(A_9, B_8, C_{12}, D_{13})} =$$

$$-A_9^+ C_{12}^+ \Phi_{(B_8, D_{13})}$$

$$-B_8^+ D_{13}^+ \Phi_{(A_9, C_{12})}$$

$$+A_9^+ B_8^+ C_{12}^+ D_{13}^+ \Phi_{()}$$

$$\Phi_{(A_9, B_8, C_{12}, D_{14})} =$$

$$-A_9^+ C_{12}^+ \Phi_{(B_8, D_{14})}$$

$$-B_8^+ D_{14}^+ \Phi_{(A_9, C_{12})}$$

$$+A_9^+ B_8^+ C_{12}^+ D_{14}^+ \Phi_{()}$$

$$\Phi_{(A_9, B_8, C_{13}, D_{11})} =$$

$$+A_9^+ D_{11}^+ \Phi_{(B_8, C_{13})}$$

$$+B_8^+ C_{13}^+ \Phi_{(A_9, D_{11})}$$

$$+A_9^+ B_8^+ C_{13}^+ D_{11}^+ \Phi_{()}$$

$$\Phi_{(A_9, B_8, C_{13}, D_{12})} =$$

$$+A_9^+ D_{12}^+ \Phi_{(B_8, C_{13})}$$

$$+B_8^+ C_{13}^+ \Phi_{(A_9, D_{12})}$$

$$+A_9^+ B_8^+ C_{13}^+ D_{12}^+ \Phi_{()}$$

$$\begin{aligned}
\Phi_{(A_9, B_8, C_{14}, D_{11})} = & \\
& + A_9^+ D_{11}^+ \Phi_{(B_8, C_{14})} \\
& + B_8^+ C_{14}^+ \Phi_{(A_9, D_{11})} \\
& + A_9^+ B_8^+ C_{14}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_8, C_{14}, D_{12})} = & \\
& + A_9^+ D_{12}^+ \Phi_{(B_8, C_{14})} \\
& + B_8^+ C_{14}^+ \Phi_{(A_9, D_{12})} \\
& + A_9^+ B_8^+ C_{14}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_8, C_{15}, D_1)} = & \\
& + D_1^+ \Phi_{(A_9, B_8, C_{15})} \\
& + A_9^+ B_8^+ C_{15}^+ \Phi_{(D_1,)} \\
& + A_9^+ B_8^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_8, C_{15}, D_2)} = & \\
& + D_2^+ \Phi_{(A_9, B_8, C_{15})} \\
& + A_9^+ B_8^+ C_{15}^+ \Phi_{(D_2,)} \\
& + A_9^+ B_8^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_8, C_{15}, D_3)} = & \\
& + D_3^+ \Phi_{(A_9, B_8, C_{15})} \\
& + A_9^+ B_8^+ C_{15}^+ \Phi_{(D_3,)} \\
& + A_9^+ B_8^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_9, C_4, D_{15})} = & \\
& + A_9^+ B_9^+ C_4^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_9, B_9, C_{11}, D_{11})} =$$

$$-A_9^+ C_{11}^+ \Phi_{(B_9, D_{11})}$$

$$+A_9^+ D_{11}^+ \Phi_{(B_9, C_{11})}$$

$$+B_9^+ C_{11}^+ \Phi_{(A_9, D_{11})}$$

$$-B_9^+ D_{11}^+ \Phi_{(A_9, C_{11})}$$

$$+A_9^+ B_9^+ C_{11}^+ D_{11}^+ \Phi_{()}$$

$$\Phi_{(A_9, B_9, C_{11}, D_{12})} =$$

$$-A_9^+ C_{11}^+ \Phi_{(B_9, D_{12})}$$

$$+A_9^+ D_{12}^+ \Phi_{(B_9, C_{11})}$$

$$+B_9^+ C_{11}^+ \Phi_{(A_9, D_{12})}$$

$$-B_9^+ D_{12}^+ \Phi_{(A_9, C_{11})}$$

$$+A_9^+ B_9^+ C_{11}^+ D_{12}^+ \Phi_{()}$$

$$\Phi_{(A_9, B_9, C_{12}, D_{11})} =$$

$$-A_9^+ C_{12}^+ \Phi_{(B_9, D_{11})}$$

$$+A_9^+ D_{11}^+ \Phi_{(B_9, C_{12})}$$

$$+B_9^+ C_{12}^+ \Phi_{(A_9, D_{11})}$$

$$-B_9^+ D_{11}^+ \Phi_{(A_9, C_{12})}$$

$$+A_9^+ B_9^+ C_{12}^+ D_{11}^+ \Phi_{()}$$

$$\Phi_{(A_9, B_9, C_{12}, D_{12})} =$$

$$-A_9^+ C_{12}^+ \Phi_{(B_9, D_{12})}$$

$$+A_9^+ D_{12}^+ \Phi_{(B_9, C_{12})}$$

$$+B_9^+ C_{12}^+ \Phi_{(A_9, D_{12})}$$

$$-B_9^+ D_{12}^+ \Phi_{(A_9, C_{12})}$$

$$+A_9^+ B_9^+ C_{12}^+ D_{12}^+ \Phi_{()}$$

$$\Phi_{(A_9, B_9, C_{15}, D_4)} =$$

$$+A_9^+ B_9^+ C_{15}^+ D_4^+ \Phi_{()}$$

$$\begin{aligned}\Phi_{(A_9, B_{10}, C_4, D_{15})} = \\ +A_9^+ B_{10}^+ C_4^+ D_{15}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_9, B_{10}, C_{11}, D_{11})} = \\ -A_9^+ C_{11}^+ \Phi_{(B_{10}, D_{11})} \\ +A_9^+ D_{11}^+ \Phi_{(B_{10}, C_{11})} \\ +B_{10}^+ C_{11}^+ \Phi_{(A_9, D_{11})} \\ -B_{10}^+ D_{11}^+ \Phi_{(A_9, C_{11})} \\ +A_9^+ B_{10}^+ C_{11}^+ D_{11}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_9, B_{10}, C_{11}, D_{12})} = \\ -A_9^+ C_{11}^+ \Phi_{(B_{10}, D_{12})} \\ +A_9^+ D_{12}^+ \Phi_{(B_{10}, C_{11})} \\ +B_{10}^+ C_{11}^+ \Phi_{(A_9, D_{12})} \\ -B_{10}^+ D_{12}^+ \Phi_{(A_9, C_{11})} \\ +A_9^+ B_{10}^+ C_{11}^+ D_{12}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_9, B_{10}, C_{12}, D_{11})} = \\ -A_9^+ C_{12}^+ \Phi_{(B_{10}, D_{11})} \\ +A_9^+ D_{11}^+ \Phi_{(B_{10}, C_{12})} \\ +B_{10}^+ C_{12}^+ \Phi_{(A_9, D_{11})} \\ -B_{10}^+ D_{11}^+ \Phi_{(A_9, C_{12})} \\ +A_9^+ B_{10}^+ C_{12}^+ D_{11}^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_9, B_{10}, C_{12}, D_{12})} = \\ -A_9^+ C_{12}^+ \Phi_{(B_{10}, D_{12})} \\ +A_9^+ D_{12}^+ \Phi_{(B_{10}, C_{12})} \\ +B_{10}^+ C_{12}^+ \Phi_{(A_9, D_{12})}\end{aligned}$$

$$\begin{aligned}
& -B_{10}^+ D_{12}^+ \Phi_{(A_9, C_{12})} \\
& + A_9^+ B_{10}^+ C_{12}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{10}, C_{15}, D_4)} = \\
& + A_9^+ B_{10}^+ C_{15}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_1, D_1)} = \\
& + C_1^+ \Phi_{(A_9, B_{11}, D_1)} \\
& + D_1^+ \Phi_{(A_9, B_{11}, C_1)} \\
& + A_9^+ B_{11}^+ \Phi_{(C_1, D_1)} \\
& + C_1^+ D_1^+ \Phi_{(A_9, B_{11})} \\
& + A_9^+ B_{11}^+ C_1^+ \Phi_{(D_1,)} \\
& + A_9^+ B_{11}^+ D_1^+ \Phi_{(C_1,)} \\
& + A_9^+ B_{11}^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_1, D_2)} = \\
& + C_1^+ \Phi_{(A_9, B_{11}, D_2)} \\
& + D_2^+ \Phi_{(A_9, B_{11}, C_1)} \\
& + A_9^+ B_{11}^+ \Phi_{(C_1, D_2)} \\
& + C_1^+ D_2^+ \Phi_{(A_9, B_{11})} \\
& + A_9^+ B_{11}^+ C_1^+ \Phi_{(D_2,)} \\
& + A_9^+ B_{11}^+ D_2^+ \Phi_{(C_1,)} \\
& + A_9^+ B_{11}^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_1, D_3)} = \\
& + C_1^+ \Phi_{(A_9, B_{11}, D_3)} \\
& + D_3^+ \Phi_{(A_9, B_{11}, C_1)} \\
& + A_9^+ B_{11}^+ \Phi_{(C_1, D_3)} \\
& + C_1^+ D_3^+ \Phi_{(A_9, B_{11})}
\end{aligned}$$

$$\begin{aligned}
& +A_9^+ B_{11}^+ C_1^+ \Phi_{(D_3,)} \\
& +A_9^+ B_{11}^+ D_3^+ \Phi_{(C_1,)} \\
& +A_9^+ B_{11}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_2, D_1)} = \\
& +C_2^+ \Phi_{(A_9, B_{11}, D_1)} \\
& +D_1^+ \Phi_{(A_9, B_{11}, C_2)} \\
& +A_9^+ B_{11}^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_2^+ \Phi_{(D_1,)} \\
& +A_9^+ B_{11}^+ D_1^+ \Phi_{(C_2,)} \\
& +A_9^+ B_{11}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_9, B_{11}, D_2)} \\
& +D_2^+ \Phi_{(A_9, B_{11}, C_2)} \\
& +A_9^+ B_{11}^+ \Phi_{(C_2, D_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_2^+ \Phi_{(D_2,)} \\
& +A_9^+ B_{11}^+ D_2^+ \Phi_{(C_2,)} \\
& +A_9^+ B_{11}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_9, B_{11}, D_3)} \\
& +D_3^+ \Phi_{(A_9, B_{11}, C_2)} \\
& +A_9^+ B_{11}^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_2^+ \Phi_{(D_3,)} \\
& +A_9^+ B_{11}^+ D_3^+ \Phi_{(C_2,)}
\end{aligned}$$

$$+A_9^+ B_{11}^+ C_2^+ D_3^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_9, B_{11}, C_3, D_1)} = & \\ & +C_3^+ \Phi_{(A_9, B_{11}, D_1)} \\ & +D_1^+ \Phi_{(A_9, B_{11}, C_3)} \\ & +A_9^+ B_{11}^+ \Phi_{(C_3, D_1)} \\ & +C_3^+ D_1^+ \Phi_{(A_9, B_{11})} \\ & +A_9^+ B_{11}^+ C_3^+ \Phi_{(D_1,)} \\ & +A_9^+ B_{11}^+ D_1^+ \Phi_{(C_3,)} \\ & +A_9^+ B_{11}^+ C_3^+ D_1^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_9, B_{11}, C_3, D_2)} = & \\ & +C_3^+ \Phi_{(A_9, B_{11}, D_2)} \\ & +D_2^+ \Phi_{(A_9, B_{11}, C_3)} \\ & +A_9^+ B_{11}^+ \Phi_{(C_3, D_2)} \\ & +C_3^+ D_2^+ \Phi_{(A_9, B_{11})} \\ & +A_9^+ B_{11}^+ C_3^+ \Phi_{(D_2,)} \\ & +A_9^+ B_{11}^+ D_2^+ \Phi_{(C_3,)} \\ & +A_9^+ B_{11}^+ C_3^+ D_2^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_9, B_{11}, C_3, D_3)} = & \\ & +C_3^+ \Phi_{(A_9, B_{11}, D_3)} \\ & +D_3^+ \Phi_{(A_9, B_{11}, C_3)} \\ & +A_9^+ B_{11}^+ \Phi_{(C_3, D_3)} \\ & +C_3^+ D_3^+ \Phi_{(A_9, B_{11})} \\ & +A_9^+ B_{11}^+ C_3^+ \Phi_{(D_3,)} \\ & +A_9^+ B_{11}^+ D_3^+ \Phi_{(C_3,)} \\ & +A_9^+ B_{11}^+ C_3^+ D_3^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_4, D_5)} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_4, D_5)} \\
&+C_4^+ D_5^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_5, D_4)} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_5, D_4)} \\
&+C_5^+ D_4^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_6, D_{15})} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_6, D_{15})} \\
&+C_6^+ D_{15}^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_7, D_{13})} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_7, D_{13})} \\
&+C_7^+ D_{13}^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_7, D_{14})} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_7, D_{14})} \\
&+C_7^+ D_{14}^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_8, D_{13})} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_8, D_{13})} \\
&+C_8^+ D_{13}^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_8, D_{14})} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_8, D_{14})} \\
&+C_8^+ D_{14}^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_9, D_{11})} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_9, D_{11})} \\
&+A_9^+ D_{11}^+ \Phi_{(B_{11}, C_9)} \\
&+B_{11}^+ C_9^+ \Phi_{(A_9, D_{11})} \\
&+C_9^+ D_{11}^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_9, D_{12})} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_9, D_{12})} \\
&+A_9^+ D_{12}^+ \Phi_{(B_{11}, C_9)} \\
&+B_{11}^+ C_9^+ \Phi_{(A_9, D_{12})} \\
&+C_9^+ D_{12}^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_{10}, D_{11})} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_{10}, D_{11})} \\
&+A_9^+ D_{11}^+ \Phi_{(B_{11}, C_{10})} \\
&+B_{11}^+ C_{10}^+ \Phi_{(A_9, D_{11})} \\
&+C_{10}^+ D_{11}^+ \Phi_{(A_9, B_{11})} \\
&+A_9^+ B_{11}^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{11}, C_{10}, D_{12})} = \\
&+A_9^+ B_{11}^+ \Phi_{(C_{10}, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +A_9^+ D_{12}^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_9, D_{12})} \\
& +C_{10}^+ D_{12}^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{11}, C_{11}, D_9)} = \\
& +A_9^+ B_{11}^+ \Phi_{(C_{11}, D_9)} \\
& -A_9^+ C_{11}^+ \Phi_{(B_{11}, D_9)} \\
& -B_{11}^+ D_9^+ \Phi_{(A_9, C_{11})} \\
& +C_{11}^+ D_9^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{11}, C_{11}, D_{10})} = \\
& +A_9^+ B_{11}^+ \Phi_{(C_{11}, D_{10})} \\
& -A_9^+ C_{11}^+ \Phi_{(B_{11}, D_{10})} \\
& -B_{11}^+ D_{10}^+ \Phi_{(A_9, C_{11})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{11}, C_{12}, D_9)} = \\
& +A_9^+ B_{11}^+ \Phi_{(C_{12}, D_9)} \\
& -A_9^+ C_{12}^+ \Phi_{(B_{11}, D_9)} \\
& -B_{11}^+ D_9^+ \Phi_{(A_9, C_{12})} \\
& +C_{12}^+ D_9^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{11}, C_{12}, D_{10})} = \\
& +A_9^+ B_{11}^+ \Phi_{(C_{12}, D_{10})} \\
& -A_9^+ C_{12}^+ \Phi_{(B_{11}, D_{10})}
\end{aligned}$$

$$\begin{aligned}
& -B_{11}^+ D_{10}^+ \Phi_{(A_9, C_{12})} \\
& +C_{12}^+ D_{10}^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_{13}, D_7)} = \\
& +A_9^+ B_{11}^+ \Phi_{(C_{13}, D_7)} \\
& +C_{13}^+ D_7^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_{13}, D_8)} = \\
& +A_9^+ B_{11}^+ \Phi_{(C_{13}, D_8)} \\
& +C_{13}^+ D_8^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_{14}, D_7)} = \\
& +A_9^+ B_{11}^+ \Phi_{(C_{14}, D_7)} \\
& +C_{14}^+ D_7^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_{14}, D_8)} = \\
& +A_9^+ B_{11}^+ \Phi_{(C_{14}, D_8)} \\
& +C_{14}^+ D_8^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{11}, C_{15}, D_6)} = \\
& +A_9^+ B_{11}^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_9, B_{11})} \\
& +A_9^+ B_{11}^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_1, D_1)} = \\
&+C_1^+ \Phi_{(A_9, B_{12}, D_1)} \\
&+D_1^+ \Phi_{(A_9, B_{12}, C_1)} \\
&+A_9^+ B_{12}^+ \Phi_{(C_1, D_1)} \\
&+C_1^+ D_1^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ C_1^+ \Phi_{(D_1,)} \\
&+A_9^+ B_{12}^+ D_1^+ \Phi_{(C_1,)} \\
&+A_9^+ B_{12}^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_1, D_2)} = \\
&+C_1^+ \Phi_{(A_9, B_{12}, D_2)} \\
&+D_2^+ \Phi_{(A_9, B_{12}, C_1)} \\
&+A_9^+ B_{12}^+ \Phi_{(C_1, D_2)} \\
&+C_1^+ D_2^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ C_1^+ \Phi_{(D_2,)} \\
&+A_9^+ B_{12}^+ D_2^+ \Phi_{(C_1,)} \\
&+A_9^+ B_{12}^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_1, D_3)} = \\
&+C_1^+ \Phi_{(A_9, B_{12}, D_3)} \\
&+D_3^+ \Phi_{(A_9, B_{12}, C_1)} \\
&+A_9^+ B_{12}^+ \Phi_{(C_1, D_3)} \\
&+C_1^+ D_3^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ C_1^+ \Phi_{(D_3,)} \\
&+A_9^+ B_{12}^+ D_3^+ \Phi_{(C_1,)} \\
&+A_9^+ B_{12}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_2, D_1)} = \\
&+C_2^+ \Phi_{(A_9, B_{12}, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_9, B_{12}, C_2)} \\
& +A_9^+ B_{12}^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_2^+ \Phi_{(D_1,)} \\
& +A_9^+ B_{12}^+ D_1^+ \Phi_{(C_2,)} \\
& +A_9^+ B_{12}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_9, B_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_9, B_{12}, C_2)} \\
& +A_9^+ B_{12}^+ \Phi_{(C_2, D_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_2^+ \Phi_{(D_2,)} \\
& +A_9^+ B_{12}^+ D_2^+ \Phi_{(C_2,)} \\
& +A_9^+ B_{12}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_9, B_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_9, B_{12}, C_2)} \\
& +A_9^+ B_{12}^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_2^+ \Phi_{(D_3,)} \\
& +A_9^+ B_{12}^+ D_3^+ \Phi_{(C_2,)} \\
& +A_9^+ B_{12}^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_9, B_{12}, D_1)} \\
& +D_1^+ \Phi_{(A_9, B_{12}, C_3)} \\
& +A_9^+ B_{12}^+ \Phi_{(C_3, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +C_3^+ D_1^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_3^+ \Phi_{(D_1,)} \\
& +A_9^+ B_{12}^+ D_1^+ \Phi_{(C_3,)} \\
& +A_9^+ B_{12}^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_9, B_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_9, B_{12}, C_3)} \\
& +A_9^+ B_{12}^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_3^+ \Phi_{(D_2,)} \\
& +A_9^+ B_{12}^+ D_2^+ \Phi_{(C_3,)} \\
& +A_9^+ B_{12}^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_9, B_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_9, B_{12}, C_3)} \\
& +A_9^+ B_{12}^+ \Phi_{(C_3, D_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_3^+ \Phi_{(D_3,)} \\
& +A_9^+ B_{12}^+ D_3^+ \Phi_{(C_3,)} \\
& +A_9^+ B_{12}^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_4, D_5)} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_9, B_{12}, C_5, D_4)} =$$

$$\begin{aligned}
& +A_9^+ B_{12}^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_6, D_{15})} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_6, D_{15})} \\
& +C_6^+ D_{15}^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_7, D_{13})} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_7, D_{14})} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_8, D_{13})} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_8, D_{14})} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_8, D_{14})} \\
& +C_8^+ D_{14}^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_9, D_{11})} = \\
&+A_9^+ B_{12}^+ \Phi_{(C_9, D_{11})} \\
&+A_9^+ D_{11}^+ \Phi_{(B_{12}, C_9)} \\
&+B_{12}^+ C_9^+ \Phi_{(A_9, D_{11})} \\
&+C_9^+ D_{11}^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_9, D_{12})} = \\
&+A_9^+ B_{12}^+ \Phi_{(C_9, D_{12})} \\
&+A_9^+ D_{12}^+ \Phi_{(B_{12}, C_9)} \\
&+B_{12}^+ C_9^+ \Phi_{(A_9, D_{12})} \\
&+C_9^+ D_{12}^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_{10}, D_{11})} = \\
&+A_9^+ B_{12}^+ \Phi_{(C_{10}, D_{11})} \\
&+A_9^+ D_{11}^+ \Phi_{(B_{12}, C_{10})} \\
&+B_{12}^+ C_{10}^+ \Phi_{(A_9, D_{11})} \\
&+C_{10}^+ D_{11}^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{12}, C_{10}, D_{12})} = \\
&+A_9^+ B_{12}^+ \Phi_{(C_{10}, D_{12})} \\
&+A_9^+ D_{12}^+ \Phi_{(B_{12}, C_{10})} \\
&+B_{12}^+ C_{10}^+ \Phi_{(A_9, D_{12})} \\
&+C_{10}^+ D_{12}^+ \Phi_{(A_9, B_{12})} \\
&+A_9^+ B_{12}^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_9, B_{12}, C_{11}, D_9)} =$$

$$\begin{aligned}
& +A_9^+ B_{12}^+ \Phi_{(C_{11}, D_9)} \\
& -A_9^+ C_{11}^+ \Phi_{(B_{12}, D_9)} \\
& -B_{12}^+ D_9^+ \Phi_{(A_9, C_{11})} \\
& +C_{11}^+ D_9^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_{11}, D_{10})} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_{11}, D_{10})} \\
& -A_9^+ C_{11}^+ \Phi_{(B_{12}, D_{10})} \\
& -B_{12}^+ D_{10}^+ \Phi_{(A_9, C_{11})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_{12}, D_9)} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_{12}, D_9)} \\
& -A_9^+ C_{12}^+ \Phi_{(B_{12}, D_9)} \\
& -B_{12}^+ D_9^+ \Phi_{(A_9, C_{12})} \\
& +C_{12}^+ D_9^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_{12}, D_{10})} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_{12}, D_{10})} \\
& -A_9^+ C_{12}^+ \Phi_{(B_{12}, D_{10})} \\
& -B_{12}^+ D_{10}^+ \Phi_{(A_9, C_{12})} \\
& +C_{12}^+ D_{10}^+ \Phi_{(A_9, B_{12})} \\
& +A_9^+ B_{12}^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{12}, C_{13}, D_7)} = \\
& +A_9^+ B_{12}^+ \Phi_{(C_{13}, D_7)}
\end{aligned}$$

$$+C_{13}^+D_7^+\Phi_{(A_9,B_{12})}$$

$$+A_9^+B_{12}^+C_{13}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_9,B_{12},C_{13},D_8)} =$$

$$+A_9^+B_{12}^+\Phi_{(C_{13},D_8)}$$

$$+C_{13}^+D_8^+\Phi_{(A_9,B_{12})}$$

$$+A_9^+B_{12}^+C_{13}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_9,B_{12},C_{14},D_7)} =$$

$$+A_9^+B_{12}^+\Phi_{(C_{14},D_7)}$$

$$+C_{14}^+D_7^+\Phi_{(A_9,B_{12})}$$

$$+A_9^+B_{12}^+C_{14}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_9,B_{12},C_{14},D_8)} =$$

$$+A_9^+B_{12}^+\Phi_{(C_{14},D_8)}$$

$$+C_{14}^+D_8^+\Phi_{(A_9,B_{12})}$$

$$+A_9^+B_{12}^+C_{14}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_9,B_{12},C_{15},D_6)} =$$

$$+A_9^+B_{12}^+\Phi_{(C_{15},D_6)}$$

$$+C_{15}^+D_6^+\Phi_{(A_9,B_{12})}$$

$$+A_9^+B_{12}^+C_{15}^+D_6^+\Phi_{()}$$

$$\Phi_{(A_9,B_{13},C_1,D_4)} =$$

$$+C_1^+\Phi_{(A_9,B_{13},D_4)}$$

$$+A_9^+B_{13}^+D_4^+\Phi_{(C_1)}$$

$$+A_9^+B_{13}^+C_1^+D_4^+\Phi_{()}$$

$$\Phi_{(A_9,B_{13},C_2,D_4)} =$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_9, B_{13}, D_4)} \\
& +A_9^+ B_{13}^+ D_4^+ \Phi_{(C_2,)} \\
& +A_9^+ B_{13}^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{13}, C_3, D_4)} = \\
& +C_3^+ \Phi_{(A_9, B_{13}, D_4)} \\
& +A_9^+ B_{13}^+ D_4^+ \Phi_{(C_3,)} \\
& +A_9^+ B_{13}^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{13}, C_4, D_1)} = \\
& +D_1^+ \Phi_{(A_9, B_{13}, C_4)} \\
& +A_9^+ B_{13}^+ C_4^+ \Phi_{(D_1,)} \\
& +A_9^+ B_{13}^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{13}, C_4, D_2)} = \\
& +D_2^+ \Phi_{(A_9, B_{13}, C_4)} \\
& +A_9^+ B_{13}^+ C_4^+ \Phi_{(D_2,)} \\
& +A_9^+ B_{13}^+ C_4^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{13}, C_4, D_3)} = \\
& +D_3^+ \Phi_{(A_9, B_{13}, C_4)} \\
& +A_9^+ B_{13}^+ C_4^+ \Phi_{(D_3,)} \\
& +A_9^+ B_{13}^+ C_4^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{13}, C_7, D_{11})} = \\
& +A_9^+ D_{11}^+ \Phi_{(B_{13}, C_7)} \\
& +B_{13}^+ C_7^+ \Phi_{(A_9, D_{11})} \\
& +A_9^+ B_{13}^+ C_7^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{13}, C_7, D_{12})} = \\
&+A_9^+ D_{12}^+ \Phi_{(B_{13}, C_7)} \\
&+B_{13}^+ C_7^+ \Phi_{(A_9, D_{12})} \\
&+A_9^+ B_{13}^+ C_7^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{13}, C_8, D_{11})} = \\
&+A_9^+ D_{11}^+ \Phi_{(B_{13}, C_8)} \\
&+B_{13}^+ C_8^+ \Phi_{(A_9, D_{11})} \\
&+A_9^+ B_{13}^+ C_8^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{13}, C_8, D_{12})} = \\
&+A_9^+ D_{12}^+ \Phi_{(B_{13}, C_8)} \\
&+B_{13}^+ C_8^+ \Phi_{(A_9, D_{12})} \\
&+A_9^+ B_{13}^+ C_8^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{13}, C_{11}, D_7)} = \\
&-A_9^+ C_{11}^+ \Phi_{(B_{13}, D_7)} \\
&-B_{13}^+ D_7^+ \Phi_{(A_9, C_{11})} \\
&+A_9^+ B_{13}^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{13}, C_{11}, D_8)} = \\
&-A_9^+ C_{11}^+ \Phi_{(B_{13}, D_8)} \\
&-B_{13}^+ D_8^+ \Phi_{(A_9, C_{11})} \\
&+A_9^+ B_{13}^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{13}, C_{12}, D_7)} = \\
&-A_9^+ C_{12}^+ \Phi_{(B_{13}, D_7)} \\
&-B_{13}^+ D_7^+ \Phi_{(A_9, C_{12})} \\
&+A_9^+ B_{13}^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{13}, C_{12}, D_8)} = & \\
& -A_9^+ C_{12}^+ \Phi_{(B_{13}, D_8)} \\
& -B_{13}^+ D_8^+ \Phi_{(A_9, C_{12})} \\
& +A_9^+ B_{13}^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{14}, C_1, D_4)} = & \\
& +C_1^+ \Phi_{(A_9, B_{14}, D_4)} \\
& +A_9^+ B_{14}^+ D_4^+ \Phi_{(C_1,)} \\
& +A_9^+ B_{14}^+ C_1^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{14}, C_2, D_4)} = & \\
& +C_2^+ \Phi_{(A_9, B_{14}, D_4)} \\
& +A_9^+ B_{14}^+ D_4^+ \Phi_{(C_2,)} \\
& +A_9^+ B_{14}^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{14}, C_3, D_4)} = & \\
& +C_3^+ \Phi_{(A_9, B_{14}, D_4)} \\
& +A_9^+ B_{14}^+ D_4^+ \Phi_{(C_3,)} \\
& +A_9^+ B_{14}^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{14}, C_4, D_1)} = & \\
& +D_1^+ \Phi_{(A_9, B_{14}, C_4)} \\
& +A_9^+ B_{14}^+ C_4^+ \Phi_{(D_1,)} \\
& +A_9^+ B_{14}^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{14}, C_4, D_2)} = & \\
& +D_2^+ \Phi_{(A_9, B_{14}, C_4)} \\
& +A_9^+ B_{14}^+ C_4^+ \Phi_{(D_2,)}
\end{aligned}$$

$$+A_9^+ B_{14}^+ C_4^+ D_2^+ \Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_9, B_{14}, C_4, D_3)} = \\ +D_3^+ \Phi_{(A_9, B_{14}, C_4)} \\ +A_9^+ B_{14}^+ C_4^+ \Phi_{(D_3,)} \\ +A_9^+ B_{14}^+ C_4^+ D_3^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_9, B_{14}, C_7, D_{11})} = \\ +A_9^+ D_{11}^+ \Phi_{(B_{14}, C_7)} \\ +B_{14}^+ C_7^+ \Phi_{(A_9, D_{11})} \\ +A_9^+ B_{14}^+ C_7^+ D_{11}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_9, B_{14}, C_7, D_{12})} = \\ +A_9^+ D_{12}^+ \Phi_{(B_{14}, C_7)} \\ +B_{14}^+ C_7^+ \Phi_{(A_9, D_{12})} \\ +A_9^+ B_{14}^+ C_7^+ D_{12}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_9, B_{14}, C_8, D_{11})} = \\ +A_9^+ D_{11}^+ \Phi_{(B_{14}, C_8)} \\ +B_{14}^+ C_8^+ \Phi_{(A_9, D_{11})} \\ +A_9^+ B_{14}^+ C_8^+ D_{11}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_9, B_{14}, C_8, D_{12})} = \\ +A_9^+ D_{12}^+ \Phi_{(B_{14}, C_8)} \\ +B_{14}^+ C_8^+ \Phi_{(A_9, D_{12})} \\ +A_9^+ B_{14}^+ C_8^+ D_{12}^+ \Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_9, B_{14}, C_{11}, D_7)} = \\ -A_9^+ C_{11}^+ \Phi_{(B_{14}, D_7)} \end{aligned}$$

$$\begin{aligned}
& -B_{14}^+ D_7^+ \Phi_{(A_9, C_{11})} \\
& + A_9^+ B_{14}^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{14}, C_{11}, D_8)} = \\
& -A_9^+ C_{11}^+ \Phi_{(B_{14}, D_8)} \\
& -B_{14}^+ D_8^+ \Phi_{(A_9, C_{11})} \\
& + A_9^+ B_{14}^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{14}, C_{12}, D_7)} = \\
& -A_9^+ C_{12}^+ \Phi_{(B_{14}, D_7)} \\
& -B_{14}^+ D_7^+ \Phi_{(A_9, C_{12})} \\
& + A_9^+ B_{14}^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{14}, C_{12}, D_8)} = \\
& -A_9^+ C_{12}^+ \Phi_{(B_{14}, D_8)} \\
& -B_{14}^+ D_8^+ \Phi_{(A_9, C_{12})} \\
& + A_9^+ B_{14}^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{15}, C_1, D_7)} = \\
& + C_1^+ \Phi_{(A_9, B_{15}, D_7)} \\
& + A_9^+ B_{15}^+ D_7^+ \Phi_{(C_1,)} \\
& + A_9^+ B_{15}^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_9, B_{15}, C_1, D_8)} = \\
& + C_1^+ \Phi_{(A_9, B_{15}, D_8)} \\
& + A_9^+ B_{15}^+ D_8^+ \Phi_{(C_1,)} \\
& + A_9^+ B_{15}^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_9, B_{15}, C_2, D_7)} =$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_9, B_{15}, D_7)} \\
& +A_9^+ B_{15}^+ D_7^+ \Phi_{(C_2,)} \\
& +A_9^+ B_{15}^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{15}, C_2, D_8)} = \\
& +C_2^+ \Phi_{(A_9, B_{15}, D_8)} \\
& +A_9^+ B_{15}^+ D_8^+ \Phi_{(C_2,)} \\
& +A_9^+ B_{15}^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{15}, C_3, D_7)} = \\
& +C_3^+ \Phi_{(A_9, B_{15}, D_7)} \\
& +A_9^+ B_{15}^+ D_7^+ \Phi_{(C_3,)} \\
& +A_9^+ B_{15}^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{15}, C_3, D_8)} = \\
& +C_3^+ \Phi_{(A_9, B_{15}, D_8)} \\
& +A_9^+ B_{15}^+ D_8^+ \Phi_{(C_3,)} \\
& +A_9^+ B_{15}^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{15}, C_4, D_9)} = \\
& +A_9^+ B_{15}^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{15}, C_4, D_{10})} = \\
& +A_9^+ B_{15}^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_9, B_{15}, C_6, D_{11})} = \\
& +A_9^+ D_{11}^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_9, D_{11})} \\
& +A_9^+ B_{15}^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{15}, C_6, D_{12})} = \\
&+ A_9^+ D_{12}^+ \Phi_{(B_{15}, C_6)} \\
&+ B_{15}^+ C_6^+ \Phi_{(A_9, D_{12})} \\
&+ A_9^+ B_{15}^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{15}, C_7, D_1)} = \\
&+ D_1^+ \Phi_{(A_9, B_{15}, C_7)} \\
&+ A_9^+ B_{15}^+ C_7^+ \Phi_{(D_1,)} \\
&+ A_9^+ B_{15}^+ C_7^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{15}, C_7, D_2)} = \\
&+ D_2^+ \Phi_{(A_9, B_{15}, C_7)} \\
&+ A_9^+ B_{15}^+ C_7^+ \Phi_{(D_2,)} \\
&+ A_9^+ B_{15}^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{15}, C_7, D_3)} = \\
&+ D_3^+ \Phi_{(A_9, B_{15}, C_7)} \\
&+ A_9^+ B_{15}^+ C_7^+ \Phi_{(D_3,)} \\
&+ A_9^+ B_{15}^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{15}, C_8, D_1)} = \\
&+ D_1^+ \Phi_{(A_9, B_{15}, C_8)} \\
&+ A_9^+ B_{15}^+ C_8^+ \Phi_{(D_1,)} \\
&+ A_9^+ B_{15}^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_9, B_{15}, C_8, D_2)} = \\
&+ D_2^+ \Phi_{(A_9, B_{15}, C_8)} \\
&+ A_9^+ B_{15}^+ C_8^+ \Phi_{(D_2,)}
\end{aligned}$$

$$+A_9^+ B_{15}^+ C_8^+ D_2^+ \Phi_{()}$$

$$\Phi_{(A_9, B_{15}, C_8, D_3)} =$$

$$+D_3^+ \Phi_{(A_9, B_{15}, C_8)}$$

$$+A_9^+ B_{15}^+ C_8^+ \Phi_{(D_3,)}$$

$$+A_9^+ B_{15}^+ C_8^+ D_3^+ \Phi_{()}$$

$$\Phi_{(A_9, B_{15}, C_9, D_4)} =$$

$$+A_9^+ B_{15}^+ C_9^+ D_4^+ \Phi_{()}$$

$$\Phi_{(A_9, B_{15}, C_{10}, D_4)} =$$

$$+A_9^+ B_{15}^+ C_{10}^+ D_4^+ \Phi_{()}$$

$$\Phi_{(A_9, B_{15}, C_{11}, D_6)} =$$

$$+A_9^+ C_{11}^+ \Phi_{(B_{15}, D_6)}$$

$$+B_{15}^+ D_6^+ \Phi_{(A_9, C_{11})}$$

$$+A_9^+ B_{15}^+ C_{11}^+ D_6^+ \Phi_{()}$$

$$\Phi_{(A_9, B_{15}, C_{12}, D_6)} =$$

$$+A_9^+ C_{12}^+ \Phi_{(B_{15}, D_6)}$$

$$+B_{15}^+ D_6^+ \Phi_{(A_9, C_{12})}$$

$$+A_9^+ B_{15}^+ C_{12}^+ D_6^+ \Phi_{()}$$

$$\Phi_{(A_{10}, B_1, C_1, D_{11})} =$$

$$+B_1^+ \Phi_{(A_{10}, C_1, D_{11})}$$

$$+C_1^+ \Phi_{(A_{10}, B_1, D_{11})}$$

$$+A_{10}^+ D_{11}^+ \Phi_{(B_1, C_1)}$$

$$+B_1^+ C_1^+ \Phi_{(A_{10}, D_{11})}$$

$$+A_{10}^+ B_1^+ D_{11}^+ \Phi_{(C_1,)}$$

$$\begin{aligned}
& +A_{10}^+C_1^+D_{11}^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_1^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_1,C_1,D_{12})} = \\
& +B_1^+\Phi_{(A_{10},C_1,D_{12})} \\
& +C_1^+\Phi_{(A_{10},B_1,D_{12})} \\
& +A_{10}^+D_{12}^+\Phi_{(B_1,C_1)} \\
& +B_1^+C_1^+\Phi_{(A_{10},D_{12})} \\
& +A_{10}^+B_1^+D_{12}^+\Phi_{(C_1,)} \\
& +A_{10}^+C_1^+D_{12}^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_1^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_1,C_2,D_{11})} = \\
& +B_1^+\Phi_{(A_{10},C_2,D_{11})} \\
& +C_2^+\Phi_{(A_{10},B_1,D_{11})} \\
& +A_{10}^+D_{11}^+\Phi_{(B_1,C_2)} \\
& +B_1^+C_2^+\Phi_{(A_{10},D_{11})} \\
& +A_{10}^+B_1^+D_{11}^+\Phi_{(C_2,)} \\
& +A_{10}^+C_2^+D_{11}^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_2^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_1,C_2,D_{12})} = \\
& +B_1^+\Phi_{(A_{10},C_2,D_{12})} \\
& +C_2^+\Phi_{(A_{10},B_1,D_{12})} \\
& +A_{10}^+D_{12}^+\Phi_{(B_1,C_2)} \\
& +B_1^+C_2^+\Phi_{(A_{10},D_{12})} \\
& +A_{10}^+B_1^+D_{12}^+\Phi_{(C_2,)} \\
& +A_{10}^+C_2^+D_{12}^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_2^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_1,C_3,D_{11})} = \\
&+B_1^+\Phi_{(A_{10},C_3,D_{11})} \\
&+C_3^+\Phi_{(A_{10},B_1,D_{11})} \\
&+A_{10}^+D_{11}^+\Phi_{(B_1,C_3)} \\
&+B_1^+C_3^+\Phi_{(A_{10},D_{11})} \\
&+A_{10}^+B_1^+D_{11}^+\Phi_{(C_3,)} \\
&+A_{10}^+C_3^+D_{11}^+\Phi_{(B_1,)} \\
&+A_{10}^+B_1^+C_3^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_1,C_3,D_{12})} = \\
&+B_1^+\Phi_{(A_{10},C_3,D_{12})} \\
&+C_3^+\Phi_{(A_{10},B_1,D_{12})} \\
&+A_{10}^+D_{12}^+\Phi_{(B_1,C_3)} \\
&+B_1^+C_3^+\Phi_{(A_{10},D_{12})} \\
&+A_{10}^+B_1^+D_{12}^+\Phi_{(C_3,)} \\
&+A_{10}^+C_3^+D_{12}^+\Phi_{(B_1,)} \\
&+A_{10}^+B_1^+C_3^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_1,C_4,D_{13})} = \\
&+B_1^+\Phi_{(A_{10},C_4,D_{13})} \\
&+A_{10}^+C_4^+D_{13}^+\Phi_{(B_1,)} \\
&+A_{10}^+B_1^+C_4^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_1,C_4,D_{14})} = \\
&+B_1^+\Phi_{(A_{10},C_4,D_{14})} \\
&+A_{10}^+C_4^+D_{14}^+\Phi_{(B_1,)} \\
&+A_{10}^+B_1^+C_4^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_1,C_7,D_{15})} = \\
&+B_1^+\Phi_{(A_{10},C_7,D_{15})} \\
&+A_{10}^+C_7^+D_{15}^+\Phi_{(B_1,)} \\
&+A_{10}^+B_1^+C_7^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_1,C_8,D_{15})} = \\
&+B_1^+\Phi_{(A_{10},C_8,D_{15})} \\
&+A_{10}^+C_8^+D_{15}^+\Phi_{(B_1,)} \\
&+A_{10}^+B_1^+C_8^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_1,C_{11},D_1)} = \\
&+B_1^+\Phi_{(A_{10},C_{11},D_1)} \\
&+D_1^+\Phi_{(A_{10},B_1,C_{11})} \\
&+A_{10}^+C_{11}^+\Phi_{(B_1,D_1)} \\
&+B_1^+D_1^+\Phi_{(A_{10},C_{11})} \\
&+A_{10}^+B_1^+C_{11}^+\Phi_{(D_1,)} \\
&+A_{10}^+C_{11}^+D_1^+\Phi_{(B_1,)} \\
&+A_{10}^+B_1^+C_{11}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_1,C_{11},D_2)} = \\
&+B_1^+\Phi_{(A_{10},C_{11},D_2)} \\
&+D_2^+\Phi_{(A_{10},B_1,C_{11})} \\
&+A_{10}^+C_{11}^+\Phi_{(B_1,D_2)} \\
&+B_1^+D_2^+\Phi_{(A_{10},C_{11})} \\
&+A_{10}^+B_1^+C_{11}^+\Phi_{(D_2,)} \\
&+A_{10}^+C_{11}^+D_2^+\Phi_{(B_1,)} \\
&+A_{10}^+B_1^+C_{11}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{10},B_1,C_{11},D_3)} =$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_{10}, C_{11}, D_3)} \\
& +D_3^+ \Phi_{(A_{10}, B_1, C_{11})} \\
& +A_{10}^+ C_{11}^+ \Phi_{(B_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_{10}, C_{11})} \\
& +A_{10}^+ B_1^+ C_{11}^+ \Phi_{(D_3,)} \\
& +A_{10}^+ C_{11}^+ D_3^+ \Phi_{(B_1,)} \\
& +A_{10}^+ B_1^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_1, C_{12}, D_1)} = \\
& +B_1^+ \Phi_{(A_{10}, C_{12}, D_1)} \\
& +D_1^+ \Phi_{(A_{10}, B_1, C_{12})} \\
& +A_{10}^+ C_{12}^+ \Phi_{(B_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_{10}, C_{12})} \\
& +A_{10}^+ B_1^+ C_{12}^+ \Phi_{(D_1,)} \\
& +A_{10}^+ C_{12}^+ D_1^+ \Phi_{(B_1,)} \\
& +A_{10}^+ B_1^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_1, C_{12}, D_2)} = \\
& +B_1^+ \Phi_{(A_{10}, C_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_{10}, B_1, C_{12})} \\
& +A_{10}^+ C_{12}^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_{10}, C_{12})} \\
& +A_{10}^+ B_1^+ C_{12}^+ \Phi_{(D_2,)} \\
& +A_{10}^+ C_{12}^+ D_2^+ \Phi_{(B_1,)} \\
& +A_{10}^+ B_1^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_1, C_{12}, D_3)} = \\
& +B_1^+ \Phi_{(A_{10}, C_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_{10}, B_1, C_{12})}
\end{aligned}$$

$$\begin{aligned}
& +A_{10}^+C_{12}^+\Phi_{(B_1,D_3)} \\
& +B_1^+D_3^+\Phi_{(A_{10},C_{12})} \\
& +A_{10}^+B_1^+C_{12}^+\Phi_{(D_3,)} \\
& +A_{10}^+C_{12}^+D_3^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_{12}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_1,C_{13},D_4)} = \\
& +B_1^+\Phi_{(A_{10},C_{13},D_4)} \\
& +A_{10}^+C_{13}^+D_4^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_{13}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_1,C_{14},D_4)} = \\
& +B_1^+\Phi_{(A_{10},C_{14},D_4)} \\
& +A_{10}^+C_{14}^+D_4^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_{14}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_1,C_{15},D_7)} = \\
& +B_1^+\Phi_{(A_{10},C_{15},D_7)} \\
& +A_{10}^+C_{15}^+D_7^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_{15}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_1,C_{15},D_8)} = \\
& +B_1^+\Phi_{(A_{10},C_{15},D_8)} \\
& +A_{10}^+C_{15}^+D_8^+\Phi_{(B_1,)} \\
& +A_{10}^+B_1^+C_{15}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_2,C_1,D_{11})} = \\
& +B_2^+\Phi_{(A_{10},C_1,D_{11})} \\
& +C_1^+\Phi_{(A_{10},B_2,D_{11})}
\end{aligned}$$

$$\begin{aligned}
& +A_{10}^+ D_{11}^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_{10}, D_{11})} \\
& +A_{10}^+ B_2^+ D_{11}^+ \Phi_{(C_1,)} \\
& +A_{10}^+ C_1^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_{10}^+ B_2^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_2, C_1, D_{12})} = \\
& +B_2^+ \Phi_{(A_{10}, C_1, D_{12})} \\
& +C_1^+ \Phi_{(A_{10}, B_2, D_{12})} \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_{10}, D_{12})} \\
& +A_{10}^+ B_2^+ D_{12}^+ \Phi_{(C_1,)} \\
& +A_{10}^+ C_1^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_{10}^+ B_2^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_2, C_2, D_{11})} = \\
& +B_2^+ \Phi_{(A_{10}, C_2, D_{11})} \\
& +C_2^+ \Phi_{(A_{10}, B_2, D_{11})} \\
& +A_{10}^+ D_{11}^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_{10}, D_{11})} \\
& +A_{10}^+ B_2^+ D_{11}^+ \Phi_{(C_2,)} \\
& +A_{10}^+ C_2^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_{10}^+ B_2^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_2, C_2, D_{12})} = \\
& +B_2^+ \Phi_{(A_{10}, C_2, D_{12})} \\
& +C_2^+ \Phi_{(A_{10}, B_2, D_{12})} \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_{10}, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +A_{10}^+B_2^+D_{12}^+\Phi_{(C_2,)} \\
& +A_{10}^+C_2^+D_{12}^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_2^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_3,D_{11})} = \\
& +B_2^+\Phi_{(A_{10},C_3,D_{11})} \\
& +C_3^+\Phi_{(A_{10},B_2,D_{11})} \\
& +A_{10}^+D_{11}^+\Phi_{(B_2,C_3)} \\
& +B_2^+C_3^+\Phi_{(A_{10},D_{11})} \\
& +A_{10}^+B_2^+D_{11}^+\Phi_{(C_3,)} \\
& +A_{10}^+C_3^+D_{11}^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_3^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_3,D_{12})} = \\
& +B_2^+\Phi_{(A_{10},C_3,D_{12})} \\
& +C_3^+\Phi_{(A_{10},B_2,D_{12})} \\
& +A_{10}^+D_{12}^+\Phi_{(B_2,C_3)} \\
& +B_2^+C_3^+\Phi_{(A_{10},D_{12})} \\
& +A_{10}^+B_2^+D_{12}^+\Phi_{(C_3,)} \\
& +A_{10}^+C_3^+D_{12}^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_3^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_4,D_{13})} = \\
& +B_2^+\Phi_{(A_{10},C_4,D_{13})} \\
& +A_{10}^+C_4^+D_{13}^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_4^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_4,D_{14})} = \\
& +B_2^+\Phi_{(A_{10},C_4,D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +A_{10}^+C_4^+D_{14}^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_4^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_7,D_{15})} = \\
& +B_2^+\Phi_{(A_{10},C_7,D_{15})} \\
& +A_{10}^+C_7^+D_{15}^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_7^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_8,D_{15})} = \\
& +B_2^+\Phi_{(A_{10},C_8,D_{15})} \\
& +A_{10}^+C_8^+D_{15}^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_8^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_{11},D_1)} = \\
& +B_2^+\Phi_{(A_{10},C_{11},D_1)} \\
& +D_1^+\Phi_{(A_{10},B_2,C_{11})} \\
& +A_{10}^+C_{11}^+\Phi_{(B_2,D_1)} \\
& +B_2^+D_1^+\Phi_{(A_{10},C_{11})} \\
& +A_{10}^+B_2^+C_{11}^+\Phi_{(D_1,)} \\
& +A_{10}^+C_{11}^+D_1^+\Phi_{(B_2,)} \\
& +A_{10}^+B_2^+C_{11}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_2,C_{11},D_2)} = \\
& +B_2^+\Phi_{(A_{10},C_{11},D_2)} \\
& +D_2^+\Phi_{(A_{10},B_2,C_{11})} \\
& +A_{10}^+C_{11}^+\Phi_{(B_2,D_2)} \\
& +B_2^+D_2^+\Phi_{(A_{10},C_{11})} \\
& +A_{10}^+B_2^+C_{11}^+\Phi_{(D_2,)} \\
& +A_{10}^+C_{11}^+D_2^+\Phi_{(B_2,)}
\end{aligned}$$

$$+A_{10}^+B_2^+C_{11}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_{10},B_2,C_{11},D_3)} =$$

$$+B_2^+\Phi_{(A_{10},C_{11},D_3)}$$

$$+D_3^+\Phi_{(A_{10},B_2,C_{11})}$$

$$+A_{10}^+C_{11}^+\Phi_{(B_2,D_3)}$$

$$+B_2^+D_3^+\Phi_{(A_{10},C_{11})}$$

$$+A_{10}^+B_2^+C_{11}^+\Phi_{(D_3,)}$$

$$+A_{10}^+C_{11}^+D_3^+\Phi_{(B_2,)}$$

$$+A_{10}^+B_2^+C_{11}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{10},B_2,C_{12},D_1)} =$$

$$+B_2^+\Phi_{(A_{10},C_{12},D_1)}$$

$$+D_1^+\Phi_{(A_{10},B_2,C_{12})}$$

$$+A_{10}^+C_{12}^+\Phi_{(B_2,D_1)}$$

$$+B_2^+D_1^+\Phi_{(A_{10},C_{12})}$$

$$+A_{10}^+B_2^+C_{12}^+\Phi_{(D_1,)}$$

$$+A_{10}^+C_{12}^+D_1^+\Phi_{(B_2,)}$$

$$+A_{10}^+B_2^+C_{12}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{10},B_2,C_{12},D_2)} =$$

$$+B_2^+\Phi_{(A_{10},C_{12},D_2)}$$

$$+D_2^+\Phi_{(A_{10},B_2,C_{12})}$$

$$+A_{10}^+C_{12}^+\Phi_{(B_2,D_2)}$$

$$+B_2^+D_2^+\Phi_{(A_{10},C_{12})}$$

$$+A_{10}^+B_2^+C_{12}^+\Phi_{(D_2,)}$$

$$+A_{10}^+C_{12}^+D_2^+\Phi_{(B_2,)}$$

$$+A_{10}^+B_2^+C_{12}^+D_2^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_2,C_{12},D_3)} = \\
&+B_2^+\Phi_{(A_{10},C_{12},D_3)} \\
&+D_3^+\Phi_{(A_{10},B_2,C_{12})} \\
&+A_{10}^+C_{12}^+\Phi_{(B_2,D_3)} \\
&+B_2^+D_3^+\Phi_{(A_{10},C_{12})} \\
&+A_{10}^+B_2^+C_{12}^+\Phi_{(D_3,)} \\
&+A_{10}^+C_{12}^+D_3^+\Phi_{(B_2,)} \\
&+A_{10}^+B_2^+C_{12}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_2,C_{13},D_4)} = \\
&+B_2^+\Phi_{(A_{10},C_{13},D_4)} \\
&+A_{10}^+C_{13}^+D_4^+\Phi_{(B_2,)} \\
&+A_{10}^+B_2^+C_{13}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_2,C_{14},D_4)} = \\
&+B_2^+\Phi_{(A_{10},C_{14},D_4)} \\
&+A_{10}^+C_{14}^+D_4^+\Phi_{(B_2,)} \\
&+A_{10}^+B_2^+C_{14}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_2,C_{15},D_7)} = \\
&+B_2^+\Phi_{(A_{10},C_{15},D_7)} \\
&+A_{10}^+C_{15}^+D_7^+\Phi_{(B_2,)} \\
&+A_{10}^+B_2^+C_{15}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_2,C_{15},D_8)} = \\
&+B_2^+\Phi_{(A_{10},C_{15},D_8)} \\
&+A_{10}^+C_{15}^+D_8^+\Phi_{(B_2,)} \\
&+A_{10}^+B_2^+C_{15}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_3,C_1,D_{11})} = \\
&+B_3^+\Phi_{(A_{10},C_1,D_{11})} \\
&+C_1^+\Phi_{(A_{10},B_3,D_{11})} \\
&+A_{10}^+D_{11}^+\Phi_{(B_3,C_1)} \\
&+B_3^+C_1^+\Phi_{(A_{10},D_{11})} \\
&+A_{10}^+B_3^+D_{11}^+\Phi_{(C_1,)} \\
&+A_{10}^+C_1^+D_{11}^+\Phi_{(B_3,)} \\
&+A_{10}^+B_3^+C_1^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_3,C_1,D_{12})} = \\
&+B_3^+\Phi_{(A_{10},C_1,D_{12})} \\
&+C_1^+\Phi_{(A_{10},B_3,D_{12})} \\
&+A_{10}^+D_{12}^+\Phi_{(B_3,C_1)} \\
&+B_3^+C_1^+\Phi_{(A_{10},D_{12})} \\
&+A_{10}^+B_3^+D_{12}^+\Phi_{(C_1,)} \\
&+A_{10}^+C_1^+D_{12}^+\Phi_{(B_3,)} \\
&+A_{10}^+B_3^+C_1^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_3,C_2,D_{11})} = \\
&+B_3^+\Phi_{(A_{10},C_2,D_{11})} \\
&+C_2^+\Phi_{(A_{10},B_3,D_{11})} \\
&+A_{10}^+D_{11}^+\Phi_{(B_3,C_2)} \\
&+B_3^+C_2^+\Phi_{(A_{10},D_{11})} \\
&+A_{10}^+B_3^+D_{11}^+\Phi_{(C_2,)} \\
&+A_{10}^+C_2^+D_{11}^+\Phi_{(B_3,)} \\
&+A_{10}^+B_3^+C_2^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_3,C_2,D_{12})} = \\
&+B_3^+\Phi_{(A_{10},C_2,D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_{10}, B_3, D_{12})} \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_{10}, D_{12})} \\
& +A_{10}^+ B_3^+ D_{12}^+ \Phi_{(C_2,)} \\
& +A_{10}^+ C_2^+ D_{12}^+ \Phi_{(B_3,)} \\
& +A_{10}^+ B_3^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_3, C_3, D_{11})} = \\
& +B_3^+ \Phi_{(A_{10}, C_3, D_{11})} \\
& +C_3^+ \Phi_{(A_{10}, B_3, D_{11})} \\
& +A_{10}^+ D_{11}^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_{10}, D_{11})} \\
& +A_{10}^+ B_3^+ D_{11}^+ \Phi_{(C_3,)} \\
& +A_{10}^+ C_3^+ D_{11}^+ \Phi_{(B_3,)} \\
& +A_{10}^+ B_3^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_3, C_3, D_{12})} = \\
& +B_3^+ \Phi_{(A_{10}, C_3, D_{12})} \\
& +C_3^+ \Phi_{(A_{10}, B_3, D_{12})} \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_{10}, D_{12})} \\
& +A_{10}^+ B_3^+ D_{12}^+ \Phi_{(C_3,)} \\
& +A_{10}^+ C_3^+ D_{12}^+ \Phi_{(B_3,)} \\
& +A_{10}^+ B_3^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_3, C_4, D_{13})} = \\
& +B_3^+ \Phi_{(A_{10}, C_4, D_{13})} \\
& +A_{10}^+ C_4^+ D_{13}^+ \Phi_{(B_3,)} \\
& +A_{10}^+ B_3^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_3,C_4,D_{14})} = \\
&+B_3^+ \Phi_{(A_{10},C_4,D_{14})} \\
&+A_{10}^+ C_4^+ D_{14}^+ \Phi_{(B_3,)} \\
&+A_{10}^+ B_3^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_3,C_7,D_{15})} = \\
&+B_3^+ \Phi_{(A_{10},C_7,D_{15})} \\
&+A_{10}^+ C_7^+ D_{15}^+ \Phi_{(B_3,)} \\
&+A_{10}^+ B_3^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_3,C_8,D_{15})} = \\
&+B_3^+ \Phi_{(A_{10},C_8,D_{15})} \\
&+A_{10}^+ C_8^+ D_{15}^+ \Phi_{(B_3,)} \\
&+A_{10}^+ B_3^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_3,C_{11},D_1)} = \\
&+B_3^+ \Phi_{(A_{10},C_{11},D_1)} \\
&+D_1^+ \Phi_{(A_{10},B_3,C_{11})} \\
&+A_{10}^+ C_{11}^+ \Phi_{(B_3,D_1)} \\
&+B_3^+ D_1^+ \Phi_{(A_{10},C_{11})} \\
&+A_{10}^+ B_3^+ C_{11}^+ \Phi_{(D_1,)} \\
&+A_{10}^+ C_{11}^+ D_1^+ \Phi_{(B_3,)} \\
&+A_{10}^+ B_3^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_3,C_{11},D_2)} = \\
&+B_3^+ \Phi_{(A_{10},C_{11},D_2)} \\
&+D_2^+ \Phi_{(A_{10},B_3,C_{11})} \\
&+A_{10}^+ C_{11}^+ \Phi_{(B_3,D_2)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ D_2^+ \Phi_{(A_{10}, C_{11})} \\
& +A_{10}^+ B_3^+ C_{11}^+ \Phi_{(D_2,)} \\
& +A_{10}^+ C_{11}^+ D_2^+ \Phi_{(B_3,)} \\
& +A_{10}^+ B_3^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_3, C_{11}, D_3)} = \\
& +B_3^+ \Phi_{(A_{10}, C_{11}, D_3)} \\
& +D_3^+ \Phi_{(A_{10}, B_3, C_{11})} \\
& +A_{10}^+ C_{11}^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_{10}, C_{11})} \\
& +A_{10}^+ B_3^+ C_{11}^+ \Phi_{(D_3,)} \\
& +A_{10}^+ C_{11}^+ D_3^+ \Phi_{(B_3,)} \\
& +A_{10}^+ B_3^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_3, C_{12}, D_1)} = \\
& +B_3^+ \Phi_{(A_{10}, C_{12}, D_1)} \\
& +D_1^+ \Phi_{(A_{10}, B_3, C_{12})} \\
& +A_{10}^+ C_{12}^+ \Phi_{(B_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_{10}, C_{12})} \\
& +A_{10}^+ B_3^+ C_{12}^+ \Phi_{(D_1,)} \\
& +A_{10}^+ C_{12}^+ D_1^+ \Phi_{(B_3,)} \\
& +A_{10}^+ B_3^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_3, C_{12}, D_2)} = \\
& +B_3^+ \Phi_{(A_{10}, C_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_{10}, B_3, C_{12})} \\
& +A_{10}^+ C_{12}^+ \Phi_{(B_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_{10}, C_{12})} \\
& +A_{10}^+ B_3^+ C_{12}^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_{10}^+C_{12}^+D_2^+\Phi_{(B_3,)} \\
& +A_{10}^+B_3^+C_{12}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_3,C_{12},D_3)} = \\
& +B_3^+\Phi_{(A_{10},C_{12},D_3)} \\
& +D_3^+\Phi_{(A_{10},B_3,C_{12})} \\
& +A_{10}^+C_{12}^+\Phi_{(B_3,D_3)} \\
& +B_3^+D_3^+\Phi_{(A_{10},C_{12})} \\
& +A_{10}^+B_3^+C_{12}^+\Phi_{(D_3,)} \\
& +A_{10}^+C_{12}^+D_3^+\Phi_{(B_3,)} \\
& +A_{10}^+B_3^+C_{12}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_3,C_{13},D_4)} = \\
& +B_3^+\Phi_{(A_{10},C_{13},D_4)} \\
& +A_{10}^+C_{13}^+D_4^+\Phi_{(B_3,)} \\
& +A_{10}^+B_3^+C_{13}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_3,C_{14},D_4)} = \\
& +B_3^+\Phi_{(A_{10},C_{14},D_4)} \\
& +A_{10}^+C_{14}^+D_4^+\Phi_{(B_3,)} \\
& +A_{10}^+B_3^+C_{14}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_3,C_{15},D_7)} = \\
& +B_3^+\Phi_{(A_{10},C_{15},D_7)} \\
& +A_{10}^+C_{15}^+D_7^+\Phi_{(B_3,)} \\
& +A_{10}^+B_3^+C_{15}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_3,C_{15},D_8)} = \\
& +B_3^+\Phi_{(A_{10},C_{15},D_8)}
\end{aligned}$$

$$+A_{10}^+C_{15}^+D_8^+\Phi_{(B_3,)}$$

$$+A_{10}^+B_3^+C_{15}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{10},B_4,C_1,D_{13})} =$$

$$+C_1^+\Phi_{(A_{10},B_4,D_{13})}$$

$$+A_{10}^+B_4^+D_{13}^+\Phi_{(C_1,)}$$

$$+A_{10}^+B_4^+C_1^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_4,C_1,D_{14})} =$$

$$+C_1^+\Phi_{(A_{10},B_4,D_{14})}$$

$$+A_{10}^+B_4^+D_{14}^+\Phi_{(C_1,)}$$

$$+A_{10}^+B_4^+C_1^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_4,C_2,D_{13})} =$$

$$+C_2^+\Phi_{(A_{10},B_4,D_{13})}$$

$$+A_{10}^+B_4^+D_{13}^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_4^+C_2^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_4,C_2,D_{14})} =$$

$$+C_2^+\Phi_{(A_{10},B_4,D_{14})}$$

$$+A_{10}^+B_4^+D_{14}^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_4^+C_2^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_4,C_3,D_{13})} =$$

$$+C_3^+\Phi_{(A_{10},B_4,D_{13})}$$

$$+A_{10}^+B_4^+D_{13}^+\Phi_{(C_3,)}$$

$$+A_{10}^+B_4^+C_3^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_4,C_3,D_{14})} =$$

$$\begin{aligned}
& +C_3^+ \Phi_{(A_{10}, B_4, D_{14})} \\
& +A_{10}^+ B_4^+ D_{14}^+ \Phi_{(C_3,)} \\
& +A_{10}^+ B_4^+ C_3^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_4, C_5, D_{11})} = \\
& +A_{10}^+ D_{11}^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_{10}, D_{11})} \\
& +A_{10}^+ B_4^+ C_5^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_4, C_5, D_{12})} = \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_4, C_5)} \\
& +B_4^+ C_5^+ \Phi_{(A_{10}, D_{12})} \\
& +A_{10}^+ B_4^+ C_5^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_4, C_9, D_{15})} = \\
& +A_{10}^+ B_4^+ C_9^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_4, C_{10}, D_{15})} = \\
& +A_{10}^+ B_4^+ C_{10}^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_4, C_{11}, D_5)} = \\
& +A_{10}^+ C_{11}^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_{10}, C_{11})} \\
& +A_{10}^+ B_4^+ C_{11}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_4, C_{12}, D_5)} = \\
& +A_{10}^+ C_{12}^+ \Phi_{(B_4, D_5)} \\
& +B_4^+ D_5^+ \Phi_{(A_{10}, C_{12})} \\
& +A_{10}^+ B_4^+ C_{12}^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_4,C_{13},D_1)} = \\
&+D_1^+\Phi_{(A_{10},B_4,C_{13})} \\
&+A_{10}^+B_4^+C_{13}^+\Phi_{(D_1,)} \\
&+A_{10}^+B_4^+C_{13}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_4,C_{13},D_2)} = \\
&+D_2^+\Phi_{(A_{10},B_4,C_{13})} \\
&+A_{10}^+B_4^+C_{13}^+\Phi_{(D_2,)} \\
&+A_{10}^+B_4^+C_{13}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_4,C_{13},D_3)} = \\
&+D_3^+\Phi_{(A_{10},B_4,C_{13})} \\
&+A_{10}^+B_4^+C_{13}^+\Phi_{(D_3,)} \\
&+A_{10}^+B_4^+C_{13}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_4,C_{14},D_1)} = \\
&+D_1^+\Phi_{(A_{10},B_4,C_{14})} \\
&+A_{10}^+B_4^+C_{14}^+\Phi_{(D_1,)} \\
&+A_{10}^+B_4^+C_{14}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_4,C_{14},D_2)} = \\
&+D_2^+\Phi_{(A_{10},B_4,C_{14})} \\
&+A_{10}^+B_4^+C_{14}^+\Phi_{(D_2,)} \\
&+A_{10}^+B_4^+C_{14}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_4,C_{14},D_3)} = \\
&+D_3^+\Phi_{(A_{10},B_4,C_{14})} \\
&+A_{10}^+B_4^+C_{14}^+\Phi_{(D_3,)}
\end{aligned}$$

$$+A_{10}^+B_4^+C_{14}^+D_3^+\Phi_{()} \\$$

$$\Phi_{(A_{10},B_4,C_{15},D_9)} = \\ +A_{10}^+B_4^+C_{15}^+D_9^+\Phi_{()} \\$$

$$\Phi_{(A_{10},B_4,C_{15},D_{10})} = \\ +A_{10}^+B_4^+C_{15}^+D_{10}^+\Phi_{()} \\$$

$$\Phi_{(A_{10},B_5,C_4,D_{11})} = \\ +A_{10}^+D_{11}^+\Phi_{(B_5,C_4)} \\ +B_5^+C_4^+\Phi_{(A_{10},D_{11})} \\ +A_{10}^+B_5^+C_4^+D_{11}^+\Phi_{()} \\$$

$$\Phi_{(A_{10},B_5,C_4,D_{12})} = \\ +A_{10}^+D_{12}^+\Phi_{(B_5,C_4)} \\ +B_5^+C_4^+\Phi_{(A_{10},D_{12})} \\ +A_{10}^+B_5^+C_4^+D_{12}^+\Phi_{()} \\$$

$$\Phi_{(A_{10},B_5,C_{11},D_4)} = \\ +A_{10}^+C_{11}^+\Phi_{(B_5,D_4)} \\ +B_5^+D_4^+\Phi_{(A_{10},C_{11})} \\ +A_{10}^+B_5^+C_{11}^+D_4^+\Phi_{()} \\$$

$$\Phi_{(A_{10},B_5,C_{12},D_4)} = \\ +A_{10}^+C_{12}^+\Phi_{(B_5,D_4)} \\ +B_5^+D_4^+\Phi_{(A_{10},C_{12})} \\ +A_{10}^+B_5^+C_{12}^+D_4^+\Phi_{()} \\$$

$$\Phi_{(A_{10},B_6,C_{11},D_{15})} =$$

$$\begin{aligned}
& +A_{10}^+C_{11}^+\Phi_{(B_6,D_{15})} \\
& +B_6^+D_{15}^+\Phi_{(A_{10},C_{11})} \\
& +A_{10}^+B_6^+C_{11}^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_6,C_{12},D_{15})} = \\
& +A_{10}^+C_{12}^+\Phi_{(B_6,D_{15})} \\
& +B_6^+D_{15}^+\Phi_{(A_{10},C_{12})} \\
& +A_{10}^+B_6^+C_{12}^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_6,C_{15},D_{11})} = \\
& +A_{10}^+D_{11}^+\Phi_{(B_6,C_{15})} \\
& +B_6^+C_{15}^+\Phi_{(A_{10},D_{11})} \\
& +A_{10}^+B_6^+C_{15}^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_6,C_{15},D_{12})} = \\
& +A_{10}^+D_{12}^+\Phi_{(B_6,C_{15})} \\
& +B_6^+C_{15}^+\Phi_{(A_{10},D_{12})} \\
& +A_{10}^+B_6^+C_{15}^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_7,C_1,D_{15})} = \\
& +C_1^+\Phi_{(A_{10},B_7,D_{15})} \\
& +A_{10}^+B_7^+D_{15}^+\Phi_{(C_1,)} \\
& +A_{10}^+B_7^+C_1^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_7,C_2,D_{15})} = \\
& +C_2^+\Phi_{(A_{10},B_7,D_{15})} \\
& +A_{10}^+B_7^+D_{15}^+\Phi_{(C_2,)} \\
& +A_{10}^+B_7^+C_2^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_7,C_3,D_{15})} = \\
&+C_3^+\Phi_{(A_{10},B_7,D_{15})} \\
&+A_{10}^+B_7^+D_{15}^+\Phi_{(C_3,)} \\
&+A_{10}^+B_7^+C_3^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_7,C_{11},D_{13})} = \\
&-A_{10}^+C_{11}^+\Phi_{(B_7,D_{13})} \\
&-B_7^+D_{13}^+\Phi_{(A_{10},C_{11})} \\
&+A_{10}^+B_7^+C_{11}^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_7,C_{11},D_{14})} = \\
&-A_{10}^+C_{11}^+\Phi_{(B_7,D_{14})} \\
&-B_7^+D_{14}^+\Phi_{(A_{10},C_{11})} \\
&+A_{10}^+B_7^+C_{11}^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_7,C_{12},D_{13})} = \\
&-A_{10}^+C_{12}^+\Phi_{(B_7,D_{13})} \\
&-B_7^+D_{13}^+\Phi_{(A_{10},C_{12})} \\
&+A_{10}^+B_7^+C_{12}^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_7,C_{12},D_{14})} = \\
&-A_{10}^+C_{12}^+\Phi_{(B_7,D_{14})} \\
&-B_7^+D_{14}^+\Phi_{(A_{10},C_{12})} \\
&+A_{10}^+B_7^+C_{12}^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_7,C_{13},D_{11})} = \\
&+A_{10}^+D_{11}^+\Phi_{(B_7,C_{13})} \\
&+B_7^+C_{13}^+\Phi_{(A_{10},D_{11})} \\
&+A_{10}^+B_7^+C_{13}^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_7, C_{13}, D_{12})} = \\
&+ A_{10}^+ D_{12}^+ \Phi_{(B_7, C_{13})} \\
&+ B_7^+ C_{13}^+ \Phi_{(A_{10}, D_{12})} \\
&+ A_{10}^+ B_7^+ C_{13}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_7, C_{14}, D_{11})} = \\
&+ A_{10}^+ D_{11}^+ \Phi_{(B_7, C_{14})} \\
&+ B_7^+ C_{14}^+ \Phi_{(A_{10}, D_{11})} \\
&+ A_{10}^+ B_7^+ C_{14}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_7, C_{14}, D_{12})} = \\
&+ A_{10}^+ D_{12}^+ \Phi_{(B_7, C_{14})} \\
&+ B_7^+ C_{14}^+ \Phi_{(A_{10}, D_{12})} \\
&+ A_{10}^+ B_7^+ C_{14}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_7, C_{15}, D_1)} = \\
&+ D_1^+ \Phi_{(A_{10}, B_7, C_{15})} \\
&+ A_{10}^+ B_7^+ C_{15}^+ \Phi_{(D_1,)} \\
&+ A_{10}^+ B_7^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_7, C_{15}, D_2)} = \\
&+ D_2^+ \Phi_{(A_{10}, B_7, C_{15})} \\
&+ A_{10}^+ B_7^+ C_{15}^+ \Phi_{(D_2,)} \\
&+ A_{10}^+ B_7^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_7, C_{15}, D_3)} = \\
&+ D_3^+ \Phi_{(A_{10}, B_7, C_{15})} \\
&+ A_{10}^+ B_7^+ C_{15}^+ \Phi_{(D_3,)}
\end{aligned}$$

$$+A_{10}^+B_7^+C_{15}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{10},B_8,C_1,D_{15})} =$$

$$+C_1^+\Phi_{(A_{10},B_8,D_{15})}$$

$$+A_{10}^+B_8^+D_{15}^+\Phi_{(C_1,)}$$

$$+A_{10}^+B_8^+C_1^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_8,C_2,D_{15})} =$$

$$+C_2^+\Phi_{(A_{10},B_8,D_{15})}$$

$$+A_{10}^+B_8^+D_{15}^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_8^+C_2^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_8,C_3,D_{15})} =$$

$$+C_3^+\Phi_{(A_{10},B_8,D_{15})}$$

$$+A_{10}^+B_8^+D_{15}^+\Phi_{(C_3,)}$$

$$+A_{10}^+B_8^+C_3^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_8,C_{11},D_{13})} =$$

$$-A_{10}^+C_{11}^+\Phi_{(B_8,D_{13})}$$

$$-B_8^+D_{13}^+\Phi_{(A_{10},C_{11})}$$

$$+A_{10}^+B_8^+C_{11}^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_8,C_{11},D_{14})} =$$

$$-A_{10}^+C_{11}^+\Phi_{(B_8,D_{14})}$$

$$-B_8^+D_{14}^+\Phi_{(A_{10},C_{11})}$$

$$+A_{10}^+B_8^+C_{11}^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_8,C_{12},D_{13})} =$$

$$-A_{10}^+C_{12}^+\Phi_{(B_8,D_{13})}$$

$$\begin{aligned}
& -B_8^+ D_{13}^+ \Phi_{(A_{10}, C_{12})} \\
& +A_{10}^+ B_8^+ C_{12}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_8, C_{12}, D_{14})} = \\
& -A_{10}^+ C_{12}^+ \Phi_{(B_8, D_{14})} \\
& -B_8^+ D_{14}^+ \Phi_{(A_{10}, C_{12})} \\
& +A_{10}^+ B_8^+ C_{12}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_8, C_{13}, D_{11})} = \\
& +A_{10}^+ D_{11}^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_{10}, D_{11})} \\
& +A_{10}^+ B_8^+ C_{13}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_8, C_{13}, D_{12})} = \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_{10}, D_{12})} \\
& +A_{10}^+ B_8^+ C_{13}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_8, C_{14}, D_{11})} = \\
& +A_{10}^+ D_{11}^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_{10}, D_{11})} \\
& +A_{10}^+ B_8^+ C_{14}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_8, C_{14}, D_{12})} = \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_{10}, D_{12})} \\
& +A_{10}^+ B_8^+ C_{14}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{10}, B_8, C_{15}, D_1)} =$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_{10}, B_8, C_{15})} \\
& +A_{10}^+ B_8^+ C_{15}^+ \Phi_{(D_1,)} \\
& +A_{10}^+ B_8^+ C_{15}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_8, C_{15}, D_2)} = \\
& +D_2^+ \Phi_{(A_{10}, B_8, C_{15})} \\
& +A_{10}^+ B_8^+ C_{15}^+ \Phi_{(D_2,)} \\
& +A_{10}^+ B_8^+ C_{15}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_8, C_{15}, D_3)} = \\
& +D_3^+ \Phi_{(A_{10}, B_8, C_{15})} \\
& +A_{10}^+ B_8^+ C_{15}^+ \Phi_{(D_3,)} \\
& +A_{10}^+ B_8^+ C_{15}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_9, C_4, D_{15})} = \\
& +A_{10}^+ B_9^+ C_4^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_9, C_{11}, D_{11})} = \\
& -A_{10}^+ C_{11}^+ \Phi_{(B_9, D_{11})} \\
& +A_{10}^+ D_{11}^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_{10}, D_{11})} \\
& -B_9^+ D_{11}^+ \Phi_{(A_{10}, C_{11})} \\
& +A_{10}^+ B_9^+ C_{11}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_9, C_{11}, D_{12})} = \\
& -A_{10}^+ C_{11}^+ \Phi_{(B_9, D_{12})} \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_{10}, D_{12})} \\
& -B_9^+ D_{12}^+ \Phi_{(A_{10}, C_{11})}
\end{aligned}$$

$$+A_{10}^+B_9^+C_{11}^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_9,C_{12},D_{11})} =$$

$$-A_{10}^+C_{12}^+\Phi_{(B_9,D_{11})}$$

$$+A_{10}^+D_{11}^+\Phi_{(B_9,C_{12})}$$

$$+B_9^+C_{12}^+\Phi_{(A_{10},D_{11})}$$

$$-B_9^+D_{11}^+\Phi_{(A_{10},C_{12})}$$

$$+A_{10}^+B_9^+C_{12}^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_9,C_{12},D_{12})} =$$

$$-A_{10}^+C_{12}^+\Phi_{(B_9,D_{12})}$$

$$+A_{10}^+D_{12}^+\Phi_{(B_9,C_{12})}$$

$$+B_9^+C_{12}^+\Phi_{(A_{10},D_{12})}$$

$$-B_9^+D_{12}^+\Phi_{(A_{10},C_{12})}$$

$$+A_{10}^+B_9^+C_{12}^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_9,C_{15},D_4)} =$$

$$+A_{10}^+B_9^+C_{15}^+D_4^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{10},C_4,D_{15})} =$$

$$+A_{10}^+B_{10}^+C_4^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{10},C_{11},D_{11})} =$$

$$-A_{10}^+C_{11}^+\Phi_{(B_{10},D_{11})}$$

$$+A_{10}^+D_{11}^+\Phi_{(B_{10},C_{11})}$$

$$+B_{10}^+C_{11}^+\Phi_{(A_{10},D_{11})}$$

$$-B_{10}^+D_{11}^+\Phi_{(A_{10},C_{11})}$$

$$+A_{10}^+B_{10}^+C_{11}^+D_{11}^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{10}, C_{11}, D_{12})} = \\
&-A_{10}^+ C_{11}^+ \Phi_{(B_{10}, D_{12})} \\
&+A_{10}^+ D_{12}^+ \Phi_{(B_{10}, C_{11})} \\
&+B_{10}^+ C_{11}^+ \Phi_{(A_{10}, D_{12})} \\
&-B_{10}^+ D_{12}^+ \Phi_{(A_{10}, C_{11})} \\
&+A_{10}^+ B_{10}^+ C_{11}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{10}, C_{12}, D_{11})} = \\
&-A_{10}^+ C_{12}^+ \Phi_{(B_{10}, D_{11})} \\
&+A_{10}^+ D_{11}^+ \Phi_{(B_{10}, C_{12})} \\
&+B_{10}^+ C_{12}^+ \Phi_{(A_{10}, D_{11})} \\
&-B_{10}^+ D_{11}^+ \Phi_{(A_{10}, C_{12})} \\
&+A_{10}^+ B_{10}^+ C_{12}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{10}, C_{12}, D_{12})} = \\
&-A_{10}^+ C_{12}^+ \Phi_{(B_{10}, D_{12})} \\
&+A_{10}^+ D_{12}^+ \Phi_{(B_{10}, C_{12})} \\
&+B_{10}^+ C_{12}^+ \Phi_{(A_{10}, D_{12})} \\
&-B_{10}^+ D_{12}^+ \Phi_{(A_{10}, C_{12})} \\
&+A_{10}^+ B_{10}^+ C_{12}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{10}, C_{15}, D_4)} = \\
&+A_{10}^+ B_{10}^+ C_{15}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{11}, C_1, D_1)} = \\
&+C_1^+ \Phi_{(A_{10}, B_{11}, D_1)} \\
&+D_1^+ \Phi_{(A_{10}, B_{11}, C_1)} \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_1, D_1)} \\
&+C_1^+ D_1^+ \Phi_{(A_{10}, B_{11})}
\end{aligned}$$

$$\begin{aligned}
& +A_{10}^+B_{11}^+C_1^+\Phi_{(D_1,)} \\
& +A_{10}^+B_{11}^+D_1^+\Phi_{(C_1,)} \\
& +A_{10}^+B_{11}^+C_1^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{11},C_1,D_2)} = \\
& +C_1^+\Phi_{(A_{10},B_{11},D_2)} \\
& +D_2^+\Phi_{(A_{10},B_{11},C_1)} \\
& +A_{10}^+B_{11}^+\Phi_{(C_1,D_2)} \\
& +C_1^+D_2^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_1^+\Phi_{(D_2,)} \\
& +A_{10}^+B_{11}^+D_2^+\Phi_{(C_1,)} \\
& +A_{10}^+B_{11}^+C_1^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{11},C_1,D_3)} = \\
& +C_1^+\Phi_{(A_{10},B_{11},D_3)} \\
& +D_3^+\Phi_{(A_{10},B_{11},C_1)} \\
& +A_{10}^+B_{11}^+\Phi_{(C_1,D_3)} \\
& +C_1^+D_3^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_1^+\Phi_{(D_3,)} \\
& +A_{10}^+B_{11}^+D_3^+\Phi_{(C_1,)} \\
& +A_{10}^+B_{11}^+C_1^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{11},C_2,D_1)} = \\
& +C_2^+\Phi_{(A_{10},B_{11},D_1)} \\
& +D_1^+\Phi_{(A_{10},B_{11},C_2)} \\
& +A_{10}^+B_{11}^+\Phi_{(C_2,D_1)} \\
& +C_2^+D_1^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_2^+\Phi_{(D_1,)} \\
& +A_{10}^+B_{11}^+D_1^+\Phi_{(C_2,)}
\end{aligned}$$

$$+A_{10}^+B_{11}^+C_2^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_2,D_2)} =$$

$$+C_2^+\Phi_{(A_{10},B_{11},D_2)}$$

$$+D_2^+\Phi_{(A_{10},B_{11},C_2)}$$

$$+A_{10}^+B_{11}^+\Phi_{(C_2,D_2)}$$

$$+C_2^+D_2^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+C_2^+\Phi_{(D_2,)}$$

$$+A_{10}^+B_{11}^+D_2^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_{11}^+C_2^+D_2^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_2,D_3)} =$$

$$+C_2^+\Phi_{(A_{10},B_{11},D_3)}$$

$$+D_3^+\Phi_{(A_{10},B_{11},C_2)}$$

$$+A_{10}^+B_{11}^+\Phi_{(C_2,D_3)}$$

$$+C_2^+D_3^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+C_2^+\Phi_{(D_3,)}$$

$$+A_{10}^+B_{11}^+D_3^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_{11}^+C_2^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_3,D_1)} =$$

$$+C_3^+\Phi_{(A_{10},B_{11},D_1)}$$

$$+D_1^+\Phi_{(A_{10},B_{11},C_3)}$$

$$+A_{10}^+B_{11}^+\Phi_{(C_3,D_1)}$$

$$+C_3^+D_1^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+C_3^+\Phi_{(D_1,)}$$

$$+A_{10}^+B_{11}^+D_1^+\Phi_{(C_3,)}$$

$$+A_{10}^+B_{11}^+C_3^+D_1^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_{11},C_3,D_2)} = \\
&+C_3^+ \Phi_{(A_{10},B_{11},D_2)} \\
&+D_2^+ \Phi_{(A_{10},B_{11},C_3)} \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_3,D_2)} \\
&+C_3^+ D_2^+ \Phi_{(A_{10},B_{11})} \\
&+A_{10}^+ B_{11}^+ C_3^+ \Phi_{(D_2,)} \\
&+A_{10}^+ B_{11}^+ D_2^+ \Phi_{(C_3,)} \\
&+A_{10}^+ B_{11}^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_{11},C_3,D_3)} = \\
&+C_3^+ \Phi_{(A_{10},B_{11},D_3)} \\
&+D_3^+ \Phi_{(A_{10},B_{11},C_3)} \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_3,D_3)} \\
&+C_3^+ D_3^+ \Phi_{(A_{10},B_{11})} \\
&+A_{10}^+ B_{11}^+ C_3^+ \Phi_{(D_3,)} \\
&+A_{10}^+ B_{11}^+ D_3^+ \Phi_{(C_3,)} \\
&+A_{10}^+ B_{11}^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_{11},C_4,D_5)} = \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_4,D_5)} \\
&+C_4^+ D_5^+ \Phi_{(A_{10},B_{11})} \\
&+A_{10}^+ B_{11}^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10},B_{11},C_5,D_4)} = \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_5,D_4)} \\
&+C_5^+ D_4^+ \Phi_{(A_{10},B_{11})} \\
&+A_{10}^+ B_{11}^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{10},B_{11},C_6,D_{15})} =$$

$$\begin{aligned}
& +A_{10}^+B_{11}^+\Phi_{(C_6,D_{15})} \\
& +C_6^+D_{15}^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_6^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_{11},C_7,D_{13})} = \\
& +A_{10}^+B_{11}^+\Phi_{(C_7,D_{13})} \\
& +C_7^+D_{13}^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_7^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_{11},C_7,D_{14})} = \\
& +A_{10}^+B_{11}^+\Phi_{(C_7,D_{14})} \\
& +C_7^+D_{14}^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_7^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_{11},C_8,D_{13})} = \\
& +A_{10}^+B_{11}^+\Phi_{(C_8,D_{13})} \\
& +C_8^+D_{13}^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_8^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_{11},C_8,D_{14})} = \\
& +A_{10}^+B_{11}^+\Phi_{(C_8,D_{14})} \\
& +C_8^+D_{14}^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_8^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10},B_{11},C_9,D_{11})} = \\
& +A_{10}^+B_{11}^+\Phi_{(C_9,D_{11})} \\
& +A_{10}^+D_{11}^+\Phi_{(B_{11},C_9)} \\
& +B_{11}^+C_9^+\Phi_{(A_{10},D_{11})} \\
& +C_9^+D_{11}^+\Phi_{(A_{10},B_{11})}
\end{aligned}$$

$$+A_{10}^+B_{11}^+C_9^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_9,D_{12})} =$$

$$+A_{10}^+B_{11}^+\Phi_{(C_9,D_{12})}$$

$$+A_{10}^+D_{12}^+\Phi_{(B_{11},C_9)}$$

$$+B_{11}^+C_9^+\Phi_{(A_{10},D_{12})}$$

$$+C_9^+D_{12}^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+C_9^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_{10},D_{11})} =$$

$$+A_{10}^+B_{11}^+\Phi_{(C_{10},D_{11})}$$

$$+A_{10}^+D_{11}^+\Phi_{(B_{11},C_{10})}$$

$$+B_{11}^+C_{10}^+\Phi_{(A_{10},D_{11})}$$

$$+C_{10}^+D_{11}^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+C_{10}^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_{10},D_{12})} =$$

$$+A_{10}^+B_{11}^+\Phi_{(C_{10},D_{12})}$$

$$+A_{10}^+D_{12}^+\Phi_{(B_{11},C_{10})}$$

$$+B_{11}^+C_{10}^+\Phi_{(A_{10},D_{12})}$$

$$+C_{10}^+D_{12}^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+C_{10}^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{11},C_{11},D_9)} =$$

$$+A_{10}^+B_{11}^+\Phi_{(C_{11},D_9)}$$

$$-A_{10}^+C_{11}^+\Phi_{(B_{11},D_9)}$$

$$-B_{11}^+D_9^+\Phi_{(A_{10},C_{11})}$$

$$+C_{11}^+D_9^+\Phi_{(A_{10},B_{11})}$$

$$+A_{10}^+B_{11}^+C_{11}^+D_9^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{11}, C_{11}, D_{10})} = \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_{11}, D_{10})} \\
&-A_{10}^+ C_{11}^+ \Phi_{(B_{11}, D_{10})} \\
&-B_{11}^+ D_{10}^+ \Phi_{(A_{10}, C_{11})} \\
&+C_{11}^+ D_{10}^+ \Phi_{(A_{10}, B_{11})} \\
&+A_{10}^+ B_{11}^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{11}, C_{12}, D_9)} = \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_{12}, D_9)} \\
&-A_{10}^+ C_{12}^+ \Phi_{(B_{11}, D_9)} \\
&-B_{11}^+ D_9^+ \Phi_{(A_{10}, C_{12})} \\
&+C_{12}^+ D_9^+ \Phi_{(A_{10}, B_{11})} \\
&+A_{10}^+ B_{11}^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{11}, C_{12}, D_{10})} = \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_{12}, D_{10})} \\
&-A_{10}^+ C_{12}^+ \Phi_{(B_{11}, D_{10})} \\
&-B_{11}^+ D_{10}^+ \Phi_{(A_{10}, C_{12})} \\
&+C_{12}^+ D_{10}^+ \Phi_{(A_{10}, B_{11})} \\
&+A_{10}^+ B_{11}^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{11}, C_{13}, D_7)} = \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_{13}, D_7)} \\
&+C_{13}^+ D_7^+ \Phi_{(A_{10}, B_{11})} \\
&+A_{10}^+ B_{11}^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{11}, C_{13}, D_8)} = \\
&+A_{10}^+ B_{11}^+ \Phi_{(C_{13}, D_8)}
\end{aligned}$$

$$\begin{aligned}
& +C_{13}^+D_8^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_{13}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{11},C_{14},D_7)} = \\
& +A_{10}^+B_{11}^+\Phi_{(C_{14},D_7)} \\
& +C_{14}^+D_7^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_{14}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{11},C_{14},D_8)} = \\
& +A_{10}^+B_{11}^+\Phi_{(C_{14},D_8)} \\
& +C_{14}^+D_8^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_{14}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{11},C_{15},D_6)} = \\
& +A_{10}^+B_{11}^+\Phi_{(C_{15},D_6)} \\
& +C_{15}^+D_6^+\Phi_{(A_{10},B_{11})} \\
& +A_{10}^+B_{11}^+C_{15}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{12},C_1,D_1)} = \\
& +C_1^+\Phi_{(A_{10},B_{12},D_1)} \\
& +D_1^+\Phi_{(A_{10},B_{12},C_1)} \\
& +A_{10}^+B_{12}^+\Phi_{(C_1,D_1)} \\
& +C_1^+D_1^+\Phi_{(A_{10},B_{12})} \\
& +A_{10}^+B_{12}^+C_1^+\Phi_{(D_1,)} \\
& +A_{10}^+B_{12}^+D_1^+\Phi_{(C_1,)} \\
& +A_{10}^+B_{12}^+C_1^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{12},C_1,D_2)} = \\
& +C_1^+\Phi_{(A_{10},B_{12},D_2)}
\end{aligned}$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_{10}, B_{12}, C_1)} \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_1, D_2)} \\
& +C_1^+ D_2^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_1^+ \Phi_{(D_2,)} \\
& +A_{10}^+ B_{12}^+ D_2^+ \Phi_{(C_1,)} \\
& +A_{10}^+ B_{12}^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_1, D_3)} = \\
& +C_1^+ \Phi_{(A_{10}, B_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_{10}, B_{12}, C_1)} \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_1, D_3)} \\
& +C_1^+ D_3^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_1^+ \Phi_{(D_3,)} \\
& +A_{10}^+ B_{12}^+ D_3^+ \Phi_{(C_1,)} \\
& +A_{10}^+ B_{12}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_2, D_1)} = \\
& +C_2^+ \Phi_{(A_{10}, B_{12}, D_1)} \\
& +D_1^+ \Phi_{(A_{10}, B_{12}, C_2)} \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_2^+ \Phi_{(D_1,)} \\
& +A_{10}^+ B_{12}^+ D_1^+ \Phi_{(C_2,)} \\
& +A_{10}^+ B_{12}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_{10}, B_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_{10}, B_{12}, C_2)} \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_2, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +C_2^+ D_2^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_2^+ \Phi_{(D_2,)} \\
& +A_{10}^+ B_{12}^+ D_2^+ \Phi_{(C_2,)} \\
& +A_{10}^+ B_{12}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_{10}, B_{12}, D_3)} \\
& +D_3^+ \Phi_{(A_{10}, B_{12}, C_2)} \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_2^+ \Phi_{(D_3,)} \\
& +A_{10}^+ B_{12}^+ D_3^+ \Phi_{(C_2,)} \\
& +A_{10}^+ B_{12}^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_{10}, B_{12}, D_1)} \\
& +D_1^+ \Phi_{(A_{10}, B_{12}, C_3)} \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_3, D_1)} \\
& +C_3^+ D_1^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_3^+ \Phi_{(D_1,)} \\
& +A_{10}^+ B_{12}^+ D_1^+ \Phi_{(C_3,)} \\
& +A_{10}^+ B_{12}^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_{10}, B_{12}, D_2)} \\
& +D_2^+ \Phi_{(A_{10}, B_{12}, C_3)} \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_3^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_{10}^+B_{12}^+D_2^+\Phi_{(C_3,)} \\
& +A_{10}^+B_{12}^+C_3^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{12},C_3,D_3)} = \\
& +C_3^+\Phi_{(A_{10},B_{12},D_3)} \\
& +D_3^+\Phi_{(A_{10},B_{12},C_3)} \\
& +A_{10}^+B_{12}^+\Phi_{(C_3,D_3)} \\
& +C_3^+D_3^+\Phi_{(A_{10},B_{12})} \\
& +A_{10}^+B_{12}^+C_3^+\Phi_{(D_3,)} \\
& +A_{10}^+B_{12}^+D_3^+\Phi_{(C_3,)} \\
& +A_{10}^+B_{12}^+C_3^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{12},C_4,D_5)} = \\
& +A_{10}^+B_{12}^+\Phi_{(C_4,D_5)} \\
& +C_4^+D_5^+\Phi_{(A_{10},B_{12})} \\
& +A_{10}^+B_{12}^+C_4^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{12},C_5,D_4)} = \\
& +A_{10}^+B_{12}^+\Phi_{(C_5,D_4)} \\
& +C_5^+D_4^+\Phi_{(A_{10},B_{12})} \\
& +A_{10}^+B_{12}^+C_5^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{12},C_6,D_{15})} = \\
& +A_{10}^+B_{12}^+\Phi_{(C_6,D_{15})} \\
& +C_6^+D_{15}^+\Phi_{(A_{10},B_{12})} \\
& +A_{10}^+B_{12}^+C_6^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{12},C_7,D_{13})} = \\
& +A_{10}^+B_{12}^+\Phi_{(C_7,D_{13})}
\end{aligned}$$

$$\begin{aligned}
& +C_7^+ D_{13}^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{12}, C_7, D_{14})} = \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{12}, C_8, D_{13})} = \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{12}, C_8, D_{14})} = \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_8, D_{14})} \\
& +C_8^+ D_{14}^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{12}, C_9, D_{11})} = \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_9, D_{11})} \\
& +A_{10}^+ D_{11}^+ \Phi_{(B_{12}, C_9)} \\
& +B_{12}^+ C_9^+ \Phi_{(A_{10}, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{12}, C_9, D_{12})} = \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_9, D_{12})} \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_{12}, C_9)} \\
& +B_{12}^+ C_9^+ \Phi_{(A_{10}, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& +C_9^+ D_{12}^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_{10}, D_{11})} = \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_{10}, D_{11})} \\
& +A_{10}^+ D_{11}^+ \Phi_{(B_{12}, C_{10})} \\
& +B_{12}^+ C_{10}^+ \Phi_{(A_{10}, D_{11})} \\
& +C_{10}^+ D_{11}^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_{10}, D_{12})} = \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_{10}, D_{12})} \\
& +A_{10}^+ D_{12}^+ \Phi_{(B_{12}, C_{10})} \\
& +B_{12}^+ C_{10}^+ \Phi_{(A_{10}, D_{12})} \\
& +C_{10}^+ D_{12}^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_{11}, D_9)} = \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_{11}, D_9)} \\
& -A_{10}^+ C_{11}^+ \Phi_{(B_{12}, D_9)} \\
& -B_{12}^+ D_9^+ \Phi_{(A_{10}, C_{11})} \\
& +C_{11}^+ D_9^+ \Phi_{(A_{10}, B_{12})} \\
& +A_{10}^+ B_{12}^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{10}, B_{12}, C_{11}, D_{10})} = \\
& +A_{10}^+ B_{12}^+ \Phi_{(C_{11}, D_{10})} \\
& -A_{10}^+ C_{11}^+ \Phi_{(B_{12}, D_{10})} \\
& -B_{12}^+ D_{10}^+ \Phi_{(A_{10}, C_{11})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_{10}, B_{12})}
\end{aligned}$$

$$+A_{10}^+B_{12}^+C_{11}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_{12},D_9)} =$$

$$+A_{10}^+B_{12}^+\Phi_{(C_{12},D_9)}$$

$$-A_{10}^+C_{12}^+\Phi_{(B_{12},D_9)}$$

$$-B_{12}^+D_9^+\Phi_{(A_{10},C_{12})}$$

$$+C_{12}^+D_9^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+C_{12}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_{12},D_{10})} =$$

$$+A_{10}^+B_{12}^+\Phi_{(C_{12},D_{10})}$$

$$-A_{10}^+C_{12}^+\Phi_{(B_{12},D_{10})}$$

$$-B_{12}^+D_{10}^+\Phi_{(A_{10},C_{12})}$$

$$+C_{12}^+D_{10}^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+C_{12}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_{13},D_7)} =$$

$$+A_{10}^+B_{12}^+\Phi_{(C_{13},D_7)}$$

$$+C_{13}^+D_7^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+C_{13}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_{13},D_8)} =$$

$$+A_{10}^+B_{12}^+\Phi_{(C_{13},D_8)}$$

$$+C_{13}^+D_8^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+C_{13}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_{14},D_7)} =$$

$$+A_{10}^+B_{12}^+\Phi_{(C_{14},D_7)}$$

$$+C_{14}^+D_7^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+C_{14}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_{14},D_8)} =$$

$$+A_{10}^+B_{12}^+\Phi_{(C_{14},D_8)}$$

$$+C_{14}^+D_8^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+C_{14}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{12},C_{15},D_6)} =$$

$$+A_{10}^+B_{12}^+\Phi_{(C_{15},D_6)}$$

$$+C_{15}^+D_6^+\Phi_{(A_{10},B_{12})}$$

$$+A_{10}^+B_{12}^+C_{15}^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{13},C_1,D_4)} =$$

$$+C_1^+\Phi_{(A_{10},B_{13},D_4)}$$

$$+A_{10}^+B_{13}^+D_4^+\Phi_{(C_1,)}$$

$$+A_{10}^+B_{13}^+C_1^+D_4^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{13},C_2,D_4)} =$$

$$+C_2^+\Phi_{(A_{10},B_{13},D_4)}$$

$$+A_{10}^+B_{13}^+D_4^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_{13}^+C_2^+D_4^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{13},C_3,D_4)} =$$

$$+C_3^+\Phi_{(A_{10},B_{13},D_4)}$$

$$+A_{10}^+B_{13}^+D_4^+\Phi_{(C_3,)}$$

$$+A_{10}^+B_{13}^+C_3^+D_4^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{13},C_4,D_1)} =$$

$$+D_1^+\Phi_{(A_{10},B_{13},C_4)}$$

$$\begin{aligned}
& +A_{10}^+B_{13}^+C_4^+\Phi_{(D_1,)} \\
& +A_{10}^+B_{13}^+C_4^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{13},C_4,D_2)} = \\
& +D_2^+\Phi_{(A_{10},B_{13},C_4)} \\
& +A_{10}^+B_{13}^+C_4^+\Phi_{(D_2,)} \\
& +A_{10}^+B_{13}^+C_4^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{13},C_4,D_3)} = \\
& +D_3^+\Phi_{(A_{10},B_{13},C_4)} \\
& +A_{10}^+B_{13}^+C_4^+\Phi_{(D_3,)} \\
& +A_{10}^+B_{13}^+C_4^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{13},C_7,D_{11})} = \\
& +A_{10}^+D_{11}^+\Phi_{(B_{13},C_7)} \\
& +B_{13}^+C_7^+\Phi_{(A_{10},D_{11})} \\
& +A_{10}^+B_{13}^+C_7^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{13},C_7,D_{12})} = \\
& +A_{10}^+D_{12}^+\Phi_{(B_{13},C_7)} \\
& +B_{13}^+C_7^+\Phi_{(A_{10},D_{12})} \\
& +A_{10}^+B_{13}^+C_7^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{13},C_8,D_{11})} = \\
& +A_{10}^+D_{11}^+\Phi_{(B_{13},C_8)} \\
& +B_{13}^+C_8^+\Phi_{(A_{10},D_{11})} \\
& +A_{10}^+B_{13}^+C_8^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{10},B_{13},C_8,D_{12})} =$$

$$\begin{aligned}
& +A_{10}^+D_{12}^+\Phi_{(B_{13},C_8)} \\
& +B_{13}^+C_8^+\Phi_{(A_{10},D_{12})} \\
& +A_{10}^+B_{13}^+C_8^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{13},C_{11},D_7)} = \\
& -A_{10}^+C_{11}^+\Phi_{(B_{13},D_7)} \\
& -B_{13}^+D_7^+\Phi_{(A_{10},C_{11})} \\
& +A_{10}^+B_{13}^+C_{11}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{13},C_{11},D_8)} = \\
& -A_{10}^+C_{11}^+\Phi_{(B_{13},D_8)} \\
& -B_{13}^+D_8^+\Phi_{(A_{10},C_{11})} \\
& +A_{10}^+B_{13}^+C_{11}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{13},C_{12},D_7)} = \\
& -A_{10}^+C_{12}^+\Phi_{(B_{13},D_7)} \\
& -B_{13}^+D_7^+\Phi_{(A_{10},C_{12})} \\
& +A_{10}^+B_{13}^+C_{12}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{13},C_{12},D_8)} = \\
& -A_{10}^+C_{12}^+\Phi_{(B_{13},D_8)} \\
& -B_{13}^+D_8^+\Phi_{(A_{10},C_{12})} \\
& +A_{10}^+B_{13}^+C_{12}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{14},C_1,D_4)} = \\
& +C_1^+\Phi_{(A_{10},B_{14},D_4)} \\
& +A_{10}^+B_{14}^+D_4^+\Phi_{(C_1,)} \\
& +A_{10}^+B_{14}^+C_1^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{14}, C_2, D_4)} = & \\
& + C_2^+ \Phi_{(A_{10}, B_{14}, D_4)} \\
& + A_{10}^+ B_{14}^+ D_4^+ \Phi_{(C_2,)} \\
& + A_{10}^+ B_{14}^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{14}, C_3, D_4)} = & \\
& + C_3^+ \Phi_{(A_{10}, B_{14}, D_4)} \\
& + A_{10}^+ B_{14}^+ D_4^+ \Phi_{(C_3,)} \\
& + A_{10}^+ B_{14}^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{14}, C_4, D_1)} = & \\
& + D_1^+ \Phi_{(A_{10}, B_{14}, C_4)} \\
& + A_{10}^+ B_{14}^+ C_4^+ \Phi_{(D_1,)} \\
& + A_{10}^+ B_{14}^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{14}, C_4, D_2)} = & \\
& + D_2^+ \Phi_{(A_{10}, B_{14}, C_4)} \\
& + A_{10}^+ B_{14}^+ C_4^+ \Phi_{(D_2,)} \\
& + A_{10}^+ B_{14}^+ C_4^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{14}, C_4, D_3)} = & \\
& + D_3^+ \Phi_{(A_{10}, B_{14}, C_4)} \\
& + A_{10}^+ B_{14}^+ C_4^+ \Phi_{(D_3,)} \\
& + A_{10}^+ B_{14}^+ C_4^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{14}, C_7, D_{11})} = & \\
& + A_{10}^+ D_{11}^+ \Phi_{(B_{14}, C_7)} \\
& + B_{14}^+ C_7^+ \Phi_{(A_{10}, D_{11})} \\
& + A_{10}^+ B_{14}^+ C_7^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{14}, C_7, D_{12})} = \\
&+ A_{10}^+ D_{12}^+ \Phi_{(B_{14}, C_7)} \\
&+ B_{14}^+ C_7^+ \Phi_{(A_{10}, D_{12})} \\
&+ A_{10}^+ B_{14}^+ C_7^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{14}, C_8, D_{11})} = \\
&+ A_{10}^+ D_{11}^+ \Phi_{(B_{14}, C_8)} \\
&+ B_{14}^+ C_8^+ \Phi_{(A_{10}, D_{11})} \\
&+ A_{10}^+ B_{14}^+ C_8^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{14}, C_8, D_{12})} = \\
&+ A_{10}^+ D_{12}^+ \Phi_{(B_{14}, C_8)} \\
&+ B_{14}^+ C_8^+ \Phi_{(A_{10}, D_{12})} \\
&+ A_{10}^+ B_{14}^+ C_8^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{14}, C_{11}, D_7)} = \\
&- A_{10}^+ C_{11}^+ \Phi_{(B_{14}, D_7)} \\
&- B_{14}^+ D_7^+ \Phi_{(A_{10}, C_{11})} \\
&+ A_{10}^+ B_{14}^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{14}, C_{11}, D_8)} = \\
&- A_{10}^+ C_{11}^+ \Phi_{(B_{14}, D_8)} \\
&- B_{14}^+ D_8^+ \Phi_{(A_{10}, C_{11})} \\
&+ A_{10}^+ B_{14}^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{10}, B_{14}, C_{12}, D_7)} = \\
&- A_{10}^+ C_{12}^+ \Phi_{(B_{14}, D_7)} \\
&- B_{14}^+ D_7^+ \Phi_{(A_{10}, C_{12})}
\end{aligned}$$

$$+A_{10}^+B_{14}^+C_{12}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{14},C_{12},D_8)} =$$

$$-A_{10}^+C_{12}^+\Phi_{(B_{14},D_8)}$$

$$-B_{14}^+D_8^+\Phi_{(A_{10},C_{12})}$$

$$+A_{10}^+B_{14}^+C_{12}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{15},C_1,D_7)} =$$

$$+C_1^+\Phi_{(A_{10},B_{15},D_7)}$$

$$+A_{10}^+B_{15}^+D_7^+\Phi_{(C_1,)}$$

$$+A_{10}^+B_{15}^+C_1^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{15},C_1,D_8)} =$$

$$+C_1^+\Phi_{(A_{10},B_{15},D_8)}$$

$$+A_{10}^+B_{15}^+D_8^+\Phi_{(C_1,)}$$

$$+A_{10}^+B_{15}^+C_1^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{15},C_2,D_7)} =$$

$$+C_2^+\Phi_{(A_{10},B_{15},D_7)}$$

$$+A_{10}^+B_{15}^+D_7^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_{15}^+C_2^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{15},C_2,D_8)} =$$

$$+C_2^+\Phi_{(A_{10},B_{15},D_8)}$$

$$+A_{10}^+B_{15}^+D_8^+\Phi_{(C_2,)}$$

$$+A_{10}^+B_{15}^+C_2^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{15},C_3,D_7)} =$$

$$+C_3^+\Phi_{(A_{10},B_{15},D_7)}$$

$$\begin{aligned}
& +A_{10}^+B_{15}^+D_7^+\Phi_{(C_3,)} \\
& +A_{10}^+B_{15}^+C_3^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{15},C_3,D_8)} = \\
& +C_3^+\Phi_{(A_{10},B_{15},D_8)} \\
& +A_{10}^+B_{15}^+D_8^+\Phi_{(C_3,)} \\
& +A_{10}^+B_{15}^+C_3^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{15},C_4,D_9)} = \\
& +A_{10}^+B_{15}^+C_4^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{15},C_4,D_{10})} = \\
& +A_{10}^+B_{15}^+C_4^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{15},C_6,D_{11})} = \\
& +A_{10}^+D_{11}^+\Phi_{(B_{15},C_6)} \\
& +B_{15}^+C_6^+\Phi_{(A_{10},D_{11})} \\
& +A_{10}^+B_{15}^+C_6^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{15},C_6,D_{12})} = \\
& +A_{10}^+D_{12}^+\Phi_{(B_{15},C_6)} \\
& +B_{15}^+C_6^+\Phi_{(A_{10},D_{12})} \\
& +A_{10}^+B_{15}^+C_6^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10},B_{15},C_7,D_1)} = \\
& +D_1^+\Phi_{(A_{10},B_{15},C_7)} \\
& +A_{10}^+B_{15}^+C_7^+\Phi_{(D_1,)} \\
& +A_{10}^+B_{15}^+C_7^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{15}, C_7, D_2)} = & \\
& + D_2^+ \Phi_{(A_{10}, B_{15}, C_7)} \\
& + A_{10}^+ B_{15}^+ C_7^+ \Phi_{(D_2,)} \\
& + A_{10}^+ B_{15}^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{15}, C_7, D_3)} = & \\
& + D_3^+ \Phi_{(A_{10}, B_{15}, C_7)} \\
& + A_{10}^+ B_{15}^+ C_7^+ \Phi_{(D_3,)} \\
& + A_{10}^+ B_{15}^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{15}, C_8, D_1)} = & \\
& + D_1^+ \Phi_{(A_{10}, B_{15}, C_8)} \\
& + A_{10}^+ B_{15}^+ C_8^+ \Phi_{(D_1,)} \\
& + A_{10}^+ B_{15}^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{15}, C_8, D_2)} = & \\
& + D_2^+ \Phi_{(A_{10}, B_{15}, C_8)} \\
& + A_{10}^+ B_{15}^+ C_8^+ \Phi_{(D_2,)} \\
& + A_{10}^+ B_{15}^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{15}, C_8, D_3)} = & \\
& + D_3^+ \Phi_{(A_{10}, B_{15}, C_8)} \\
& + A_{10}^+ B_{15}^+ C_8^+ \Phi_{(D_3,)} \\
& + A_{10}^+ B_{15}^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{10}, B_{15}, C_9, D_4)} = & \\
& + A_{10}^+ B_{15}^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{10}, B_{15}, C_{10}, D_4)} =$$

$$+A_{10}^+B_{15}^+C_{10}^+D_4^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{15},C_{11},D_6)} =$$

$$+A_{10}^+C_{11}^+\Phi_{(B_{15},D_6)}$$

$$+B_{15}^+D_6^+\Phi_{(A_{10},C_{11})}$$

$$+A_{10}^+B_{15}^+C_{11}^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{10},B_{15},C_{12},D_6)} =$$

$$+A_{10}^+C_{12}^+\Phi_{(B_{15},D_6)}$$

$$+B_{15}^+D_6^+\Phi_{(A_{10},C_{12})}$$

$$+A_{10}^+B_{15}^+C_{12}^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{11},B_1,C_1,D_9)} =$$

$$+B_1^+\Phi_{(A_{11},C_1,D_9)}$$

$$+C_1^+\Phi_{(A_{11},B_1,D_9)}$$

$$+A_{11}^+D_9^+\Phi_{(B_1,C_1)}$$

$$+B_1^+C_1^+\Phi_{(A_{11},D_9)}$$

$$+A_{11}^+B_1^+D_9^+\Phi_{(C_1,)}$$

$$+A_{11}^+C_1^+D_9^+\Phi_{(B_1,)}$$

$$+A_{11}^+B_1^+C_1^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{11},B_1,C_1,D_{10})} =$$

$$+B_1^+\Phi_{(A_{11},C_1,D_{10})}$$

$$+C_1^+\Phi_{(A_{11},B_1,D_{10})}$$

$$+A_{11}^+D_{10}^+\Phi_{(B_1,C_1)}$$

$$+B_1^+C_1^+\Phi_{(A_{11},D_{10})}$$

$$+A_{11}^+B_1^+D_{10}^+\Phi_{(C_1,)}$$

$$+A_{11}^+C_1^+D_{10}^+\Phi_{(B_1,)}$$

$$+A_{11}^+B_1^+C_1^+D_{10}^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_1, C_2, D_9)} = \\
&+ B_1^+ \Phi_{(A_{11}, C_2, D_9)} \\
&+ C_2^+ \Phi_{(A_{11}, B_1, D_9)} \\
&+ A_{11}^+ D_9^+ \Phi_{(B_1, C_2)} \\
&+ B_1^+ C_2^+ \Phi_{(A_{11}, D_9)} \\
&+ A_{11}^+ B_1^+ D_9^+ \Phi_{(C_2,)} \\
&+ A_{11}^+ C_2^+ D_9^+ \Phi_{(B_1,)} \\
&+ A_{11}^+ B_1^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_1, C_2, D_{10})} = \\
&+ B_1^+ \Phi_{(A_{11}, C_2, D_{10})} \\
&+ C_2^+ \Phi_{(A_{11}, B_1, D_{10})} \\
&+ A_{11}^+ D_{10}^+ \Phi_{(B_1, C_2)} \\
&+ B_1^+ C_2^+ \Phi_{(A_{11}, D_{10})} \\
&+ A_{11}^+ B_1^+ D_{10}^+ \Phi_{(C_2,)} \\
&+ A_{11}^+ C_2^+ D_{10}^+ \Phi_{(B_1,)} \\
&+ A_{11}^+ B_1^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_1, C_3, D_9)} = \\
&+ B_1^+ \Phi_{(A_{11}, C_3, D_9)} \\
&+ C_3^+ \Phi_{(A_{11}, B_1, D_9)} \\
&+ A_{11}^+ D_9^+ \Phi_{(B_1, C_3)} \\
&+ B_1^+ C_3^+ \Phi_{(A_{11}, D_9)} \\
&+ A_{11}^+ B_1^+ D_9^+ \Phi_{(C_3,)} \\
&+ A_{11}^+ C_3^+ D_9^+ \Phi_{(B_1,)} \\
&+ A_{11}^+ B_1^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{11}, B_1, C_3, D_{10})} =$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_{11}, C_3, D_{10})} \\
& +C_3^+ \Phi_{(A_{11}, B_1, D_{10})} \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_{11}, D_{10})} \\
& +A_{11}^+ B_1^+ D_{10}^+ \Phi_{(C_3,)} \\
& +A_{11}^+ C_3^+ D_{10}^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_5, D_7)} = \\
& +B_1^+ \Phi_{(A_{11}, C_5, D_7)} \\
& +A_{11}^+ C_5^+ D_7^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_5^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_5, D_8)} = \\
& +B_1^+ \Phi_{(A_{11}, C_5, D_8)} \\
& +A_{11}^+ C_5^+ D_8^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_5^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_6, D_{13})} = \\
& +B_1^+ \Phi_{(A_{11}, C_6, D_{13})} \\
& +A_{11}^+ C_6^+ D_{13}^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_6^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_6, D_{14})} = \\
& +B_1^+ \Phi_{(A_{11}, C_6, D_{14})} \\
& +A_{11}^+ C_6^+ D_{14}^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_6^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{11}, B_1, C_7, D_5)} =$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_{11}, C_7, D_5)} \\
& +A_{11}^+ C_7^+ D_5^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_7^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_8, D_5)} = \\
& +B_1^+ \Phi_{(A_{11}, C_8, D_5)} \\
& +A_{11}^+ C_8^+ D_5^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_9, D_1)} = \\
& +B_1^+ \Phi_{(A_{11}, C_9, D_1)} \\
& +D_1^+ \Phi_{(A_{11}, B_1, C_9)} \\
& +A_{11}^+ C_9^+ \Phi_{(B_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_{11}, C_9)} \\
& +A_{11}^+ B_1^+ C_9^+ \Phi_{(D_1,)} \\
& +A_{11}^+ C_9^+ D_1^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_9, D_2)} = \\
& +B_1^+ \Phi_{(A_{11}, C_9, D_2)} \\
& +D_2^+ \Phi_{(A_{11}, B_1, C_9)} \\
& +A_{11}^+ C_9^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_{11}, C_9)} \\
& +A_{11}^+ B_1^+ C_9^+ \Phi_{(D_2,)} \\
& +A_{11}^+ C_9^+ D_2^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_9, D_3)} = \\
& +B_1^+ \Phi_{(A_{11}, C_9, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +D_3^+ \Phi_{(A_{11}, B_1, C_9)} \\
& +A_{11}^+ C_9^+ \Phi_{(B_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_{11}, C_9)} \\
& +A_{11}^+ B_1^+ C_9^+ \Phi_{(D_3,)} \\
& +A_{11}^+ C_9^+ D_3^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_{10}, D_1)} = \\
& +B_1^+ \Phi_{(A_{11}, C_{10}, D_1)} \\
& +D_1^+ \Phi_{(A_{11}, B_1, C_{10})} \\
& +A_{11}^+ C_{10}^+ \Phi_{(B_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_1^+ C_{10}^+ \Phi_{(D_1,)} \\
& +A_{11}^+ C_{10}^+ D_1^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_{10}, D_2)} = \\
& +B_1^+ \Phi_{(A_{11}, C_{10}, D_2)} \\
& +D_2^+ \Phi_{(A_{11}, B_1, C_{10})} \\
& +A_{11}^+ C_{10}^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_1^+ C_{10}^+ \Phi_{(D_2,)} \\
& +A_{11}^+ C_{10}^+ D_2^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_{10}, D_3)} = \\
& +B_1^+ \Phi_{(A_{11}, C_{10}, D_3)} \\
& +D_3^+ \Phi_{(A_{11}, B_1, C_{10})} \\
& +A_{11}^+ C_{10}^+ \Phi_{(B_1, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ D_3^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_1^+ C_{10}^+ \Phi_{(D_3,)} \\
& +A_{11}^+ C_{10}^+ D_3^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_{13}, D_6)} = \\
& +B_1^+ \Phi_{(A_{11}, C_{13}, D_6)} \\
& +A_{11}^+ C_{13}^+ D_6^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_1, C_{14}, D_6)} = \\
& +B_1^+ \Phi_{(A_{11}, C_{14}, D_6)} \\
& +A_{11}^+ C_{14}^+ D_6^+ \Phi_{(B_1,)} \\
& +A_{11}^+ B_1^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_2, C_1, D_9)} = \\
& +B_2^+ \Phi_{(A_{11}, C_1, D_9)} \\
& +C_1^+ \Phi_{(A_{11}, B_2, D_9)} \\
& +A_{11}^+ D_9^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_2^+ D_9^+ \Phi_{(C_1,)} \\
& +A_{11}^+ C_1^+ D_9^+ \Phi_{(B_2,)} \\
& +A_{11}^+ B_2^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_2, C_1, D_{10})} = \\
& +B_2^+ \Phi_{(A_{11}, C_1, D_{10})} \\
& +C_1^+ \Phi_{(A_{11}, B_2, D_{10})} \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_{11}, D_{10})}
\end{aligned}$$

$$\begin{aligned}
& +A_{11}^+ B_2^+ D_{10}^+ \Phi_{(C_1,)} \\
& +A_{11}^+ C_1^+ D_{10}^+ \Phi_{(B_2,)} \\
& +A_{11}^+ B_2^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_2, C_2, D_9)} = & \\
& +B_2^+ \Phi_{(A_{11}, C_2, D_9)} \\
& +C_2^+ \Phi_{(A_{11}, B_2, D_9)} \\
& +A_{11}^+ D_9^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_2^+ D_9^+ \Phi_{(C_2,)} \\
& +A_{11}^+ C_2^+ D_9^+ \Phi_{(B_2,)} \\
& +A_{11}^+ B_2^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_2, C_2, D_{10})} = & \\
& +B_2^+ \Phi_{(A_{11}, C_2, D_{10})} \\
& +C_2^+ \Phi_{(A_{11}, B_2, D_{10})} \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_{11}, D_{10})} \\
& +A_{11}^+ B_2^+ D_{10}^+ \Phi_{(C_2,)} \\
& +A_{11}^+ C_2^+ D_{10}^+ \Phi_{(B_2,)} \\
& +A_{11}^+ B_2^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_2, C_3, D_9)} = & \\
& +B_2^+ \Phi_{(A_{11}, C_3, D_9)} \\
& +C_3^+ \Phi_{(A_{11}, B_2, D_9)} \\
& +A_{11}^+ D_9^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_2^+ D_9^+ \Phi_{(C_3,)} \\
& +A_{11}^+ C_3^+ D_9^+ \Phi_{(B_2,)}
\end{aligned}$$

$$+A_{11}^+B_2^+C_3^+D_9^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_2,C_3,D_{10})} =$$

$$+B_2^+\Phi_{(A_{11},C_3,D_{10})}$$

$$+C_3^+\Phi_{(A_{11},B_2,D_{10})}$$

$$+A_{11}^+D_{10}^+\Phi_{(B_2,C_3)}$$

$$+B_2^+C_3^+\Phi_{(A_{11},D_{10})}$$

$$+A_{11}^+B_2^+D_{10}^+\Phi_{(C_3,)}$$

$$+A_{11}^+C_3^+D_{10}^+\Phi_{(B_2,)}$$

$$+A_{11}^+B_2^+C_3^+D_{10}^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_2,C_5,D_7)} =$$

$$+B_2^+\Phi_{(A_{11},C_5,D_7)}$$

$$+A_{11}^+C_5^+D_7^+\Phi_{(B_2,)}$$

$$+A_{11}^+B_2^+C_5^+D_7^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_2,C_5,D_8)} =$$

$$+B_2^+\Phi_{(A_{11},C_5,D_8)}$$

$$+A_{11}^+C_5^+D_8^+\Phi_{(B_2,)}$$

$$+A_{11}^+B_2^+C_5^+D_8^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_2,C_6,D_{13})} =$$

$$+B_2^+\Phi_{(A_{11},C_6,D_{13})}$$

$$+A_{11}^+C_6^+D_{13}^+\Phi_{(B_2,)}$$

$$+A_{11}^+B_2^+C_6^+D_{13}^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_2,C_6,D_{14})} =$$

$$+B_2^+\Phi_{(A_{11},C_6,D_{14})}$$

$$+A_{11}^+C_6^+D_{14}^+\Phi_{(B_2,)}$$

$$+A_{11}^+B_2^+C_6^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_2,C_7,D_5)} =$$

$$+B_2^+\Phi_{(A_{11},C_7,D_5)}$$

$$+A_{11}^+C_7^+D_5^+\Phi_{(B_2,)}$$

$$+A_{11}^+B_2^+C_7^+D_5^+\Phi_{()}$$

$$\Phi_{(A_{11},B_2,C_8,D_5)} =$$

$$+B_2^+\Phi_{(A_{11},C_8,D_5)}$$

$$+A_{11}^+C_8^+D_5^+\Phi_{(B_2,)}$$

$$+A_{11}^+B_2^+C_8^+D_5^+\Phi_{()}$$

$$\Phi_{(A_{11},B_2,C_9,D_1)} =$$

$$+B_2^+\Phi_{(A_{11},C_9,D_1)}$$

$$+D_1^+\Phi_{(A_{11},B_2,C_9)}$$

$$+A_{11}^+C_9^+\Phi_{(B_2,D_1)}$$

$$+B_2^+D_1^+\Phi_{(A_{11},C_9)}$$

$$+A_{11}^+B_2^+C_9^+\Phi_{(D_1,)}$$

$$+A_{11}^+C_9^+D_1^+\Phi_{(B_2,)}$$

$$+A_{11}^+B_2^+C_9^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{11},B_2,C_9,D_2)} =$$

$$+B_2^+\Phi_{(A_{11},C_9,D_2)}$$

$$+D_2^+\Phi_{(A_{11},B_2,C_9)}$$

$$+A_{11}^+C_9^+\Phi_{(B_2,D_2)}$$

$$+B_2^+D_2^+\Phi_{(A_{11},C_9)}$$

$$+A_{11}^+B_2^+C_9^+\Phi_{(D_2,)}$$

$$+A_{11}^+C_9^+D_2^+\Phi_{(B_2,)}$$

$$+A_{11}^+B_2^+C_9^+D_2^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_2, C_9, D_3)} = \\
&+ B_2^+ \Phi_{(A_{11}, C_9, D_3)} \\
&+ D_3^+ \Phi_{(A_{11}, B_2, C_9)} \\
&+ A_{11}^+ C_9^+ \Phi_{(B_2, D_3)} \\
&+ B_2^+ D_3^+ \Phi_{(A_{11}, C_9)} \\
&+ A_{11}^+ B_2^+ C_9^+ \Phi_{(D_3,)} \\
&+ A_{11}^+ C_9^+ D_3^+ \Phi_{(B_2,)} \\
&+ A_{11}^+ B_2^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_2, C_{10}, D_1)} = \\
&+ B_2^+ \Phi_{(A_{11}, C_{10}, D_1)} \\
&+ D_1^+ \Phi_{(A_{11}, B_2, C_{10})} \\
&+ A_{11}^+ C_{10}^+ \Phi_{(B_2, D_1)} \\
&+ B_2^+ D_1^+ \Phi_{(A_{11}, C_{10})} \\
&+ A_{11}^+ B_2^+ C_{10}^+ \Phi_{(D_1,)} \\
&+ A_{11}^+ C_{10}^+ D_1^+ \Phi_{(B_2,)} \\
&+ A_{11}^+ B_2^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_2, C_{10}, D_2)} = \\
&+ B_2^+ \Phi_{(A_{11}, C_{10}, D_2)} \\
&+ D_2^+ \Phi_{(A_{11}, B_2, C_{10})} \\
&+ A_{11}^+ C_{10}^+ \Phi_{(B_2, D_2)} \\
&+ B_2^+ D_2^+ \Phi_{(A_{11}, C_{10})} \\
&+ A_{11}^+ B_2^+ C_{10}^+ \Phi_{(D_2,)} \\
&+ A_{11}^+ C_{10}^+ D_2^+ \Phi_{(B_2,)} \\
&+ A_{11}^+ B_2^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{11}, B_2, C_{10}, D_3)} =$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_{11}, C_{10}, D_3)} \\
& +D_3^+ \Phi_{(A_{11}, B_2, C_{10})} \\
& +A_{11}^+ C_{10}^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_2^+ C_{10}^+ \Phi_{(D_3,)} \\
& +A_{11}^+ C_{10}^+ D_3^+ \Phi_{(B_2,)} \\
& +A_{11}^+ B_2^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_2, C_{13}, D_6)} = \\
& +B_2^+ \Phi_{(A_{11}, C_{13}, D_6)} \\
& +A_{11}^+ C_{13}^+ D_6^+ \Phi_{(B_2,)} \\
& +A_{11}^+ B_2^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_2, C_{14}, D_6)} = \\
& +B_2^+ \Phi_{(A_{11}, C_{14}, D_6)} \\
& +A_{11}^+ C_{14}^+ D_6^+ \Phi_{(B_2,)} \\
& +A_{11}^+ B_2^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_3, C_1, D_9)} = \\
& +B_3^+ \Phi_{(A_{11}, C_1, D_9)} \\
& +C_1^+ \Phi_{(A_{11}, B_3, D_9)} \\
& +A_{11}^+ D_9^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_3^+ D_9^+ \Phi_{(C_1,)} \\
& +A_{11}^+ C_1^+ D_9^+ \Phi_{(B_3,)} \\
& +A_{11}^+ B_3^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_3, C_1, D_{10})} = \\
& +B_3^+ \Phi_{(A_{11}, C_1, D_{10})}
\end{aligned}$$

$$\begin{aligned}
& +C_1^+ \Phi_{(A_{11}, B_3, D_{10})} \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_{11}, D_{10})} \\
& +A_{11}^+ B_3^+ D_{10}^+ \Phi_{(C_1,)} \\
& +A_{11}^+ C_1^+ D_{10}^+ \Phi_{(B_3,)} \\
& +A_{11}^+ B_3^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_3, C_2, D_9)} = \\
& +B_3^+ \Phi_{(A_{11}, C_2, D_9)} \\
& +C_2^+ \Phi_{(A_{11}, B_3, D_9)} \\
& +A_{11}^+ D_9^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_3^+ D_9^+ \Phi_{(C_2,)} \\
& +A_{11}^+ C_2^+ D_9^+ \Phi_{(B_3,)} \\
& +A_{11}^+ B_3^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_3, C_2, D_{10})} = \\
& +B_3^+ \Phi_{(A_{11}, C_2, D_{10})} \\
& +C_2^+ \Phi_{(A_{11}, B_3, D_{10})} \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_{11}, D_{10})} \\
& +A_{11}^+ B_3^+ D_{10}^+ \Phi_{(C_2,)} \\
& +A_{11}^+ C_2^+ D_{10}^+ \Phi_{(B_3,)} \\
& +A_{11}^+ B_3^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_3, C_3, D_9)} = \\
& +B_3^+ \Phi_{(A_{11}, C_3, D_9)} \\
& +C_3^+ \Phi_{(A_{11}, B_3, D_9)} \\
& +A_{11}^+ D_9^+ \Phi_{(B_3, C_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ C_3^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_3^+ D_9^+ \Phi_{(C_3,)} \\
& +A_{11}^+ C_3^+ D_9^+ \Phi_{(B_3,)} \\
& +A_{11}^+ B_3^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_3, C_3, D_{10})} = \\
& +B_3^+ \Phi_{(A_{11}, C_3, D_{10})} \\
& +C_3^+ \Phi_{(A_{11}, B_3, D_{10})} \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_{11}, D_{10})} \\
& +A_{11}^+ B_3^+ D_{10}^+ \Phi_{(C_3,)} \\
& +A_{11}^+ C_3^+ D_{10}^+ \Phi_{(B_3,)} \\
& +A_{11}^+ B_3^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_3, C_5, D_7)} = \\
& +B_3^+ \Phi_{(A_{11}, C_5, D_7)} \\
& +A_{11}^+ C_5^+ D_7^+ \Phi_{(B_3,)} \\
& +A_{11}^+ B_3^+ C_5^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_3, C_5, D_8)} = \\
& +B_3^+ \Phi_{(A_{11}, C_5, D_8)} \\
& +A_{11}^+ C_5^+ D_8^+ \Phi_{(B_3,)} \\
& +A_{11}^+ B_3^+ C_5^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_3, C_6, D_{13})} = \\
& +B_3^+ \Phi_{(A_{11}, C_6, D_{13})} \\
& +A_{11}^+ C_6^+ D_{13}^+ \Phi_{(B_3,)} \\
& +A_{11}^+ B_3^+ C_6^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_3,C_6,D_{14})} = \\
&+B_3^+ \Phi_{(A_{11},C_6,D_{14})} \\
&+A_{11}^+ C_6^+ D_{14}^+ \Phi_{(B_3,)} \\
&+A_{11}^+ B_3^+ C_6^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_3,C_7,D_5)} = \\
&+B_3^+ \Phi_{(A_{11},C_7,D_5)} \\
&+A_{11}^+ C_7^+ D_5^+ \Phi_{(B_3,)} \\
&+A_{11}^+ B_3^+ C_7^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_3,C_8,D_5)} = \\
&+B_3^+ \Phi_{(A_{11},C_8,D_5)} \\
&+A_{11}^+ C_8^+ D_5^+ \Phi_{(B_3,)} \\
&+A_{11}^+ B_3^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_3,C_9,D_1)} = \\
&+B_3^+ \Phi_{(A_{11},C_9,D_1)} \\
&+D_1^+ \Phi_{(A_{11},B_3,C_9)} \\
&+A_{11}^+ C_9^+ \Phi_{(B_3,D_1)} \\
&+B_3^+ D_1^+ \Phi_{(A_{11},C_9)} \\
&+A_{11}^+ B_3^+ C_9^+ \Phi_{(D_1,)} \\
&+A_{11}^+ C_9^+ D_1^+ \Phi_{(B_3,)} \\
&+A_{11}^+ B_3^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_3,C_9,D_2)} = \\
&+B_3^+ \Phi_{(A_{11},C_9,D_2)} \\
&+D_2^+ \Phi_{(A_{11},B_3,C_9)} \\
&+A_{11}^+ C_9^+ \Phi_{(B_3,D_2)} \\
&+B_3^+ D_2^+ \Phi_{(A_{11},C_9)}
\end{aligned}$$

$$\begin{aligned}
& +A_{11}^+B_3^+C_9^+\Phi_{(D_2,)} \\
& +A_{11}^+C_9^+D_2^+\Phi_{(B_3,)} \\
& +A_{11}^+B_3^+C_9^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_3,C_9,D_3)} = \\
& +B_3^+\Phi_{(A_{11},C_9,D_3)} \\
& +D_3^+\Phi_{(A_{11},B_3,C_9)} \\
& +A_{11}^+C_9^+\Phi_{(B_3,D_3)} \\
& +B_3^+D_3^+\Phi_{(A_{11},C_9)} \\
& +A_{11}^+B_3^+C_9^+\Phi_{(D_3,)} \\
& +A_{11}^+C_9^+D_3^+\Phi_{(B_3,)} \\
& +A_{11}^+B_3^+C_9^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_3,C_{10},D_1)} = \\
& +B_3^+\Phi_{(A_{11},C_{10},D_1)} \\
& +D_1^+\Phi_{(A_{11},B_3,C_{10})} \\
& +A_{11}^+C_{10}^+\Phi_{(B_3,D_1)} \\
& +B_3^+D_1^+\Phi_{(A_{11},C_{10})} \\
& +A_{11}^+B_3^+C_{10}^+\Phi_{(D_1,)} \\
& +A_{11}^+C_{10}^+D_1^+\Phi_{(B_3,)} \\
& +A_{11}^+B_3^+C_{10}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_3,C_{10},D_2)} = \\
& +B_3^+\Phi_{(A_{11},C_{10},D_2)} \\
& +D_2^+\Phi_{(A_{11},B_3,C_{10})} \\
& +A_{11}^+C_{10}^+\Phi_{(B_3,D_2)} \\
& +B_3^+D_2^+\Phi_{(A_{11},C_{10})} \\
& +A_{11}^+B_3^+C_{10}^+\Phi_{(D_2,)} \\
& +A_{11}^+C_{10}^+D_2^+\Phi_{(B_3,)}
\end{aligned}$$

$$+A_{11}^+B_3^+C_{10}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_{11},B_3,C_{10},D_3)} =$$

$$+B_3^+\Phi_{(A_{11},C_{10},D_3)}$$

$$+D_3^+\Phi_{(A_{11},B_3,C_{10})}$$

$$+A_{11}^+C_{10}^+\Phi_{(B_3,D_3)}$$

$$+B_3^+D_3^+\Phi_{(A_{11},C_{10})}$$

$$+A_{11}^+B_3^+C_{10}^+\Phi_{(D_3,)}$$

$$+A_{11}^+C_{10}^+D_3^+\Phi_{(B_3,)}$$

$$+A_{11}^+B_3^+C_{10}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{11},B_3,C_{13},D_6)} =$$

$$+B_3^+\Phi_{(A_{11},C_{13},D_6)}$$

$$+A_{11}^+C_{13}^+D_6^+\Phi_{(B_3,)}$$

$$+A_{11}^+B_3^+C_{13}^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{11},B_3,C_{14},D_6)} =$$

$$+B_3^+\Phi_{(A_{11},C_{14},D_6)}$$

$$+A_{11}^+C_{14}^+D_6^+\Phi_{(B_3,)}$$

$$+A_{11}^+B_3^+C_{14}^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{11},B_4,C_5,D_9)} =$$

$$+A_{11}^+D_9^+\Phi_{(B_4,C_5)}$$

$$+B_4^+C_5^+\Phi_{(A_{11},D_9)}$$

$$+A_{11}^+B_4^+C_5^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{11},B_4,C_5,D_{10})} =$$

$$+A_{11}^+D_{10}^+\Phi_{(B_4,C_5)}$$

$$+B_4^+C_5^+\Phi_{(A_{11},D_{10})}$$

$$+A_{11}^+B_4^+C_5^+D_{10}^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_4,C_9,D_5)} = \\$$

$$+A_{11}^+C_9^+\Phi_{(B_4,D_5)} \\$$

$$+B_4^+D_5^+\Phi_{(A_{11},C_9)} \\$$

$$+A_{11}^+B_4^+C_9^+D_5^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_4,C_{10},D_5)} = \\$$

$$+A_{11}^+C_{10}^+\Phi_{(B_4,D_5)} \\$$

$$+B_4^+D_5^+\Phi_{(A_{11},C_{10})} \\$$

$$+A_{11}^+B_4^+C_{10}^+D_5^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_5,C_1,D_7)} = \\$$

$$+C_1^+\Phi_{(A_{11},B_5,D_7)} \\$$

$$+A_{11}^+B_5^+D_7^+\Phi_{(C_1,)} \\$$

$$+A_{11}^+B_5^+C_1^+D_7^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_5,C_1,D_8)} = \\$$

$$+C_1^+\Phi_{(A_{11},B_5,D_8)} \\$$

$$+A_{11}^+B_5^+D_8^+\Phi_{(C_1,)} \\$$

$$+A_{11}^+B_5^+C_1^+D_8^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_5,C_2,D_7)} = \\$$

$$+C_2^+\Phi_{(A_{11},B_5,D_7)} \\$$

$$+A_{11}^+B_5^+D_7^+\Phi_{(C_2,)} \\$$

$$+A_{11}^+B_5^+C_2^+D_7^+\Phi_{()} \\$$

$$\Phi_{(A_{11},B_5,C_2,D_8)} = \\$$

$$+C_2^+\Phi_{(A_{11},B_5,D_8)} \\$$

$$+A_{11}^+B_5^+D_8^+\Phi_{(C_2,)}$$

$$+A_{11}^+B_5^+C_2^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{11},B_5,C_3,D_7)} =$$

$$+C_3^+\Phi_{(A_{11},B_5,D_7)}$$

$$+A_{11}^+B_5^+D_7^+\Phi_{(C_3,)}$$

$$+A_{11}^+B_5^+C_3^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{11},B_5,C_3,D_8)} =$$

$$+C_3^+\Phi_{(A_{11},B_5,D_8)}$$

$$+A_{11}^+B_5^+D_8^+\Phi_{(C_3,)}$$

$$+A_{11}^+B_5^+C_3^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{11},B_5,C_4,D_9)} =$$

$$+A_{11}^+D_9^+\Phi_{(B_5,C_4)}$$

$$+B_5^+C_4^+\Phi_{(A_{11},D_9)}$$

$$+A_{11}^+B_5^+C_4^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{11},B_5,C_4,D_{10})} =$$

$$+A_{11}^+D_{10}^+\Phi_{(B_5,C_4)}$$

$$+B_5^+C_4^+\Phi_{(A_{11},D_{10})}$$

$$+A_{11}^+B_5^+C_4^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_5,C_6,D_{11})} =$$

$$+A_{11}^+B_5^+C_6^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_5,C_6,D_{12})} =$$

$$+A_{11}^+B_5^+C_6^+D_{12}^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_7,D_1)} = \\
&+D_1^+\Phi_{(A_{11},B_5,C_7)} \\
&+A_{11}^+B_5^+C_7^+\Phi_{(D_1,)} \\
&+A_{11}^+B_5^+C_7^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_7,D_2)} = \\
&+D_2^+\Phi_{(A_{11},B_5,C_7)} \\
&+A_{11}^+B_5^+C_7^+\Phi_{(D_2,)} \\
&+A_{11}^+B_5^+C_7^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_7,D_3)} = \\
&+D_3^+\Phi_{(A_{11},B_5,C_7)} \\
&+A_{11}^+B_5^+C_7^+\Phi_{(D_3,)} \\
&+A_{11}^+B_5^+C_7^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_8,D_1)} = \\
&+D_1^+\Phi_{(A_{11},B_5,C_8)} \\
&+A_{11}^+B_5^+C_8^+\Phi_{(D_1,)} \\
&+A_{11}^+B_5^+C_8^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_8,D_2)} = \\
&+D_2^+\Phi_{(A_{11},B_5,C_8)} \\
&+A_{11}^+B_5^+C_8^+\Phi_{(D_2,)} \\
&+A_{11}^+B_5^+C_8^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_8,D_3)} = \\
&+D_3^+\Phi_{(A_{11},B_5,C_8)} \\
&+A_{11}^+B_5^+C_8^+\Phi_{(D_3,)} \\
&+A_{11}^+B_5^+C_8^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_9,D_4)} = \\
&+A_{11}^+C_9^+\Phi_{(B_5,D_4)} \\
&+B_5^+D_4^+\Phi_{(A_{11},C_9)} \\
&+A_{11}^+B_5^+C_9^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_{10},D_4)} = \\
&+A_{11}^+C_{10}^+\Phi_{(B_5,D_4)} \\
&+B_5^+D_4^+\Phi_{(A_{11},C_{10})} \\
&+A_{11}^+B_5^+C_{10}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_{11},D_6)} = \\
&+A_{11}^+B_5^+C_{11}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_5,C_{12},D_6)} = \\
&+A_{11}^+B_5^+C_{12}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_1,D_{13})} = \\
&+C_1^+\Phi_{(A_{11},B_6,D_{13})} \\
&+A_{11}^+B_6^+D_{13}^+\Phi_{(C_1,)} \\
&+A_{11}^+B_6^+C_1^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_1,D_{14})} = \\
&+C_1^+\Phi_{(A_{11},B_6,D_{14})} \\
&+A_{11}^+B_6^+D_{14}^+\Phi_{(C_1,)} \\
&+A_{11}^+B_6^+C_1^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_2,D_{13})} = \\
&+C_2^+\Phi_{(A_{11},B_6,D_{13})}
\end{aligned}$$

$$\begin{aligned}
& +A_{11}^+B_6^+D_{13}^+\Phi_{(C_2,)} \\
& +A_{11}^+B_6^+C_2^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_6,C_2,D_{14})} = \\
& +C_2^+\Phi_{(A_{11},B_6,D_{14})} \\
& +A_{11}^+B_6^+D_{14}^+\Phi_{(C_2,)} \\
& +A_{11}^+B_6^+C_2^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_6,C_3,D_{13})} = \\
& +C_3^+\Phi_{(A_{11},B_6,D_{13})} \\
& +A_{11}^+B_6^+D_{13}^+\Phi_{(C_3,)} \\
& +A_{11}^+B_6^+C_3^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_6,C_3,D_{14})} = \\
& +C_3^+\Phi_{(A_{11},B_6,D_{14})} \\
& +A_{11}^+B_6^+D_{14}^+\Phi_{(C_3,)} \\
& +A_{11}^+B_6^+C_3^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_6,C_5,D_{11})} = \\
& +A_{11}^+B_6^+C_5^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_6,C_5,D_{12})} = \\
& +A_{11}^+B_6^+C_5^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_6,C_9,D_{15})} = \\
& +A_{11}^+C_9^+\Phi_{(B_6,D_{15})} \\
& +B_6^+D_{15}^+\Phi_{(A_{11},C_9)} \\
& +A_{11}^+B_6^+C_9^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_{10},D_{15})} = \\
&+A_{11}^+C_{10}^+\Phi_{(B_6,D_{15})} \\
&+B_6^+D_{15}^+\Phi_{(A_{11},C_{10})} \\
&+A_{11}^+B_6^+C_{10}^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_{11},D_5)} = \\
&+A_{11}^+B_6^+C_{11}^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_{12},D_5)} = \\
&+A_{11}^+B_6^+C_{12}^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_{13},D_1)} = \\
&+D_1^+\Phi_{(A_{11},B_6,C_{13})} \\
&+A_{11}^+B_6^+C_{13}^+\Phi_{(D_1,)} \\
&+A_{11}^+B_6^+C_{13}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_{13},D_2)} = \\
&+D_2^+\Phi_{(A_{11},B_6,C_{13})} \\
&+A_{11}^+B_6^+C_{13}^+\Phi_{(D_2,)} \\
&+A_{11}^+B_6^+C_{13}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_{13},D_3)} = \\
&+D_3^+\Phi_{(A_{11},B_6,C_{13})} \\
&+A_{11}^+B_6^+C_{13}^+\Phi_{(D_3,)} \\
&+A_{11}^+B_6^+C_{13}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11},B_6,C_{14},D_1)} = \\
&+D_1^+\Phi_{(A_{11},B_6,C_{14})} \\
&+A_{11}^+B_6^+C_{14}^+\Phi_{(D_1,)}
\end{aligned}$$

$$+A_{11}^+B_6^+C_{14}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{11},B_6,C_{14},D_2)} =$$

$$+D_2^+\Phi_{(A_{11},B_6,C_{14})}$$

$$+A_{11}^+B_6^+C_{14}^+\Phi_{(D_2,)}$$

$$+A_{11}^+B_6^+C_{14}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_{11},B_6,C_{14},D_3)} =$$

$$+D_3^+\Phi_{(A_{11},B_6,C_{14})}$$

$$+A_{11}^+B_6^+C_{14}^+\Phi_{(D_3,)}$$

$$+A_{11}^+B_6^+C_{14}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{11},B_6,C_{15},D_9)} =$$

$$+A_{11}^+D_9^+\Phi_{(B_6,C_{15})}$$

$$+B_6^+C_{15}^+\Phi_{(A_{11},D_9)}$$

$$+A_{11}^+B_6^+C_{15}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{11},B_6,C_{15},D_{10})} =$$

$$+A_{11}^+D_{10}^+\Phi_{(B_6,C_{15})}$$

$$+B_6^+C_{15}^+\Phi_{(A_{11},D_{10})}$$

$$+A_{11}^+B_6^+C_{15}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_7,C_1,D_5)} =$$

$$+C_1^+\Phi_{(A_{11},B_7,D_5)}$$

$$+A_{11}^+B_7^+D_5^+\Phi_{(C_1,)}$$

$$+A_{11}^+B_7^+C_1^+D_5^+\Phi_{()}$$

$$\Phi_{(A_{11},B_7,C_2,D_5)} =$$

$$+C_2^+\Phi_{(A_{11},B_7,D_5)}$$

$$+A_{11}^+B_7^+D_5^+\Phi_{(C_2,)}$$

$$+A_{11}^+B_7^+C_2^+D_5^+\Phi_{()}$$

$$\Phi_{(A_{11},B_7,C_3,D_5)} =$$

$$+C_3^+\Phi_{(A_{11},B_7,D_5)}$$

$$+A_{11}^+B_7^+D_5^+\Phi_{(C_3,)}$$

$$+A_{11}^+B_7^+C_3^+D_5^+\Phi_{()}$$

$$\Phi_{(A_{11},B_7,C_5,D_1)} =$$

$$+D_1^+\Phi_{(A_{11},B_7,C_5)}$$

$$+A_{11}^+B_7^+C_5^+\Phi_{(D_1,)}$$

$$+A_{11}^+B_7^+C_5^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{11},B_7,C_5,D_2)} =$$

$$+D_2^+\Phi_{(A_{11},B_7,C_5)}$$

$$+A_{11}^+B_7^+C_5^+\Phi_{(D_2,)}$$

$$+A_{11}^+B_7^+C_5^+D_2^+\Phi_{()}$$

$$\Phi_{(A_{11},B_7,C_5,D_3)} =$$

$$+D_3^+\Phi_{(A_{11},B_7,C_5)}$$

$$+A_{11}^+B_7^+C_5^+\Phi_{(D_3,)}$$

$$+A_{11}^+B_7^+C_5^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{11},B_7,C_9,D_{13})} =$$

$$-A_{11}^+C_9^+\Phi_{(B_7,D_{13})}$$

$$-B_7^+D_{13}^+\Phi_{(A_{11},C_9)}$$

$$+A_{11}^+B_7^+C_9^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_7,C_9,D_{14})} =$$

$$\begin{aligned}
& -A_{11}^+ C_9^+ \Phi_{(B_7, D_{14})} \\
& -B_7^+ D_{14}^+ \Phi_{(A_{11}, C_9)} \\
& +A_{11}^+ B_7^+ C_9^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_7, C_{10}, D_{13})} = \\
& -A_{11}^+ C_{10}^+ \Phi_{(B_7, D_{13})} \\
& -B_7^+ D_{13}^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_7^+ C_{10}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_7, C_{10}, D_{14})} = \\
& -A_{11}^+ C_{10}^+ \Phi_{(B_7, D_{14})} \\
& -B_7^+ D_{14}^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_7^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_7, C_{13}, D_9)} = \\
& +A_{11}^+ D_9^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_7^+ C_{13}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_7, C_{13}, D_{10})} = \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_7, C_{13})} \\
& +B_7^+ C_{13}^+ \Phi_{(A_{11}, D_{10})} \\
& +A_{11}^+ B_7^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_7, C_{14}, D_9)} = \\
& +A_{11}^+ D_9^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_7^+ C_{14}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_7, C_{14}, D_{10})} = \\
&+ A_{11}^+ D_{10}^+ \Phi_{(B_7, C_{14})} \\
&+ B_7^+ C_{14}^+ \Phi_{(A_{11}, D_{10})} \\
&+ A_{11}^+ B_7^+ C_{14}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_1, D_5)} = \\
&+ C_1^+ \Phi_{(A_{11}, B_8, D_5)} \\
&+ A_{11}^+ B_8^+ D_5^+ \Phi_{(C_1,)} \\
&+ A_{11}^+ B_8^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_2, D_5)} = \\
&+ C_2^+ \Phi_{(A_{11}, B_8, D_5)} \\
&+ A_{11}^+ B_8^+ D_5^+ \Phi_{(C_2,)} \\
&+ A_{11}^+ B_8^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_3, D_5)} = \\
&+ C_3^+ \Phi_{(A_{11}, B_8, D_5)} \\
&+ A_{11}^+ B_8^+ D_5^+ \Phi_{(C_3,)} \\
&+ A_{11}^+ B_8^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_5, D_1)} = \\
&+ D_1^+ \Phi_{(A_{11}, B_8, C_5)} \\
&+ A_{11}^+ B_8^+ C_5^+ \Phi_{(D_1,)} \\
&+ A_{11}^+ B_8^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_5, D_2)} = \\
&+ D_2^+ \Phi_{(A_{11}, B_8, C_5)} \\
&+ A_{11}^+ B_8^+ C_5^+ \Phi_{(D_2,)} \\
&+ A_{11}^+ B_8^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_5, D_3)} = \\
&+ D_3^+ \Phi_{(A_{11}, B_8, C_5)} \\
&+ A_{11}^+ B_8^+ C_5^+ \Phi_{(D_3,)} \\
&+ A_{11}^+ B_8^+ C_5^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_9, D_{13})} = \\
&- A_{11}^+ C_9^+ \Phi_{(B_8, D_{13})} \\
&- B_8^+ D_{13}^+ \Phi_{(A_{11}, C_9)} \\
&+ A_{11}^+ B_8^+ C_9^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_9, D_{14})} = \\
&- A_{11}^+ C_9^+ \Phi_{(B_8, D_{14})} \\
&- B_8^+ D_{14}^+ \Phi_{(A_{11}, C_9)} \\
&+ A_{11}^+ B_8^+ C_9^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_{10}, D_{13})} = \\
&- A_{11}^+ C_{10}^+ \Phi_{(B_8, D_{13})} \\
&- B_8^+ D_{13}^+ \Phi_{(A_{11}, C_{10})} \\
&+ A_{11}^+ B_8^+ C_{10}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_{10}, D_{14})} = \\
&- A_{11}^+ C_{10}^+ \Phi_{(B_8, D_{14})} \\
&- B_8^+ D_{14}^+ \Phi_{(A_{11}, C_{10})} \\
&+ A_{11}^+ B_8^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_8, C_{13}, D_9)} = \\
&+ A_{11}^+ D_9^+ \Phi_{(B_8, C_{13})} \\
&+ B_8^+ C_{13}^+ \Phi_{(A_{11}, D_9)}
\end{aligned}$$

$$+A_{11}^+B_8^+C_{13}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{11},B_8,C_{13},D_{10})} =$$

$$+A_{11}^+D_{10}^+\Phi_{(B_8,C_{13})}$$

$$+B_8^+C_{13}^+\Phi_{(A_{11},D_{10})}$$

$$+A_{11}^+B_8^+C_{13}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_8,C_{14},D_9)} =$$

$$+A_{11}^+D_9^+\Phi_{(B_8,C_{14})}$$

$$+B_8^+C_{14}^+\Phi_{(A_{11},D_9)}$$

$$+A_{11}^+B_8^+C_{14}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{11},B_8,C_{14},D_{10})} =$$

$$+A_{11}^+D_{10}^+\Phi_{(B_8,C_{14})}$$

$$+B_8^+C_{14}^+\Phi_{(A_{11},D_{10})}$$

$$+A_{11}^+B_8^+C_{14}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_1,D_1)} =$$

$$+C_1^+\Phi_{(A_{11},B_9,D_1)}$$

$$+D_1^+\Phi_{(A_{11},B_9,C_1)}$$

$$+A_{11}^+B_9^+\Phi_{(C_1,D_1)}$$

$$+C_1^+D_1^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_1^+\Phi_{(D_1,)}$$

$$+A_{11}^+B_9^+D_1^+\Phi_{(C_1,)}$$

$$+A_{11}^+B_9^+C_1^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_1,D_2)} =$$

$$+C_1^+\Phi_{(A_{11},B_9,D_2)}$$

$$+D_2^+\Phi_{(A_{11},B_9,C_1)}$$

$$\begin{aligned}
& +A_{11}^+B_9^+\Phi_{(C_1,D_2)} \\
& +C_1^+D_2^+\Phi_{(A_{11},B_9)} \\
& +A_{11}^+B_9^+C_1^+\Phi_{(D_2,)} \\
& +A_{11}^+B_9^+D_2^+\Phi_{(C_1,)} \\
& +A_{11}^+B_9^+C_1^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11},B_9,C_1,D_3)} = \\
& +C_1^+\Phi_{(A_{11},B_9,D_3)} \\
& +D_3^+\Phi_{(A_{11},B_9,C_1)} \\
& +A_{11}^+B_9^+\Phi_{(C_1,D_3)} \\
& +C_1^+D_3^+\Phi_{(A_{11},B_9)} \\
& +A_{11}^+B_9^+C_1^+\Phi_{(D_3,)} \\
& +A_{11}^+B_9^+D_3^+\Phi_{(C_1,)} \\
& +A_{11}^+B_9^+C_1^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11},B_9,C_2,D_1)} = \\
& +C_2^+\Phi_{(A_{11},B_9,D_1)} \\
& +D_1^+\Phi_{(A_{11},B_9,C_2)} \\
& +A_{11}^+B_9^+\Phi_{(C_2,D_1)} \\
& +C_2^+D_1^+\Phi_{(A_{11},B_9)} \\
& +A_{11}^+B_9^+C_2^+\Phi_{(D_1,)} \\
& +A_{11}^+B_9^+D_1^+\Phi_{(C_2,)} \\
& +A_{11}^+B_9^+C_2^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11},B_9,C_2,D_2)} = \\
& +C_2^+\Phi_{(A_{11},B_9,D_2)} \\
& +D_2^+\Phi_{(A_{11},B_9,C_2)} \\
& +A_{11}^+B_9^+\Phi_{(C_2,D_2)} \\
& +C_2^+D_2^+\Phi_{(A_{11},B_9)}
\end{aligned}$$

$$\begin{aligned}
& +A_{11}^+B_9^+C_2^+\Phi_{(D_2,)} \\
& +A_{11}^+B_9^+D_2^+\Phi_{(C_2,)} \\
& +A_{11}^+B_9^+C_2^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_9,C_2,D_3)} = \\
& +C_2^+\Phi_{(A_{11},B_9,D_3)} \\
& +D_3^+\Phi_{(A_{11},B_9,C_2)} \\
& +A_{11}^+B_9^+\Phi_{(C_2,D_3)} \\
& +C_2^+D_3^+\Phi_{(A_{11},B_9)} \\
& +A_{11}^+B_9^+C_2^+\Phi_{(D_3,)} \\
& +A_{11}^+B_9^+D_3^+\Phi_{(C_2,)} \\
& +A_{11}^+B_9^+C_2^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_9,C_3,D_1)} = \\
& +C_3^+\Phi_{(A_{11},B_9,D_1)} \\
& +D_1^+\Phi_{(A_{11},B_9,C_3)} \\
& +A_{11}^+B_9^+\Phi_{(C_3,D_1)} \\
& +C_3^+D_1^+\Phi_{(A_{11},B_9)} \\
& +A_{11}^+B_9^+C_3^+\Phi_{(D_1,)} \\
& +A_{11}^+B_9^+D_1^+\Phi_{(C_3,)} \\
& +A_{11}^+B_9^+C_3^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_9,C_3,D_2)} = \\
& +C_3^+\Phi_{(A_{11},B_9,D_2)} \\
& +D_2^+\Phi_{(A_{11},B_9,C_3)} \\
& +A_{11}^+B_9^+\Phi_{(C_3,D_2)} \\
& +C_3^+D_2^+\Phi_{(A_{11},B_9)} \\
& +A_{11}^+B_9^+C_3^+\Phi_{(D_2,)} \\
& +A_{11}^+B_9^+D_2^+\Phi_{(C_3,)}
\end{aligned}$$

$$+A_{11}^+B_9^+C_3^+D_2^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{11},B_9,C_3,D_3)} = \\ +C_3^+\Phi_{(A_{11},B_9,D_3)} \\ +D_3^+\Phi_{(A_{11},B_9,C_3)} \\ +A_{11}^+B_9^+\Phi_{(C_3,D_3)} \\ +C_3^+D_3^+\Phi_{(A_{11},B_9)} \\ +A_{11}^+B_9^+C_3^+\Phi_{(D_3,)} \\ +A_{11}^+B_9^+D_3^+\Phi_{(C_3,)} \\ +A_{11}^+B_9^+C_3^+D_3^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{11},B_9,C_4,D_5)} = \\ +A_{11}^+B_9^+\Phi_{(C_4,D_5)} \\ +C_4^+D_5^+\Phi_{(A_{11},B_9)} \\ +A_{11}^+B_9^+C_4^+D_5^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{11},B_9,C_5,D_4)} = \\ +A_{11}^+B_9^+\Phi_{(C_5,D_4)} \\ +C_5^+D_4^+\Phi_{(A_{11},B_9)} \\ +A_{11}^+B_9^+C_5^+D_4^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{11},B_9,C_6,D_{15})} = \\ +A_{11}^+B_9^+\Phi_{(C_6,D_{15})} \\ +C_6^+D_{15}^+\Phi_{(A_{11},B_9)} \\ +A_{11}^+B_9^+C_6^+D_{15}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{11},B_9,C_7,D_{13})} = \\ +A_{11}^+B_9^+\Phi_{(C_7,D_{13})} \\ +C_7^+D_{13}^+\Phi_{(A_{11},B_9)} \end{aligned}$$

$$+A_{11}^+B_9^+C_7^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_7,D_{14})} =$$

$$+A_{11}^+B_9^+\Phi_{(C_7,D_{14})}$$

$$+C_7^+D_{14}^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_7^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_8,D_{13})} =$$

$$+A_{11}^+B_9^+\Phi_{(C_8,D_{13})}$$

$$+C_8^+D_{13}^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_8^+D_{13}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_8,D_{14})} =$$

$$+A_{11}^+B_9^+\Phi_{(C_8,D_{14})}$$

$$+C_8^+D_{14}^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_8^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_9,D_{11})} =$$

$$+A_{11}^+B_9^+\Phi_{(C_9,D_{11})}$$

$$-A_{11}^+C_9^+\Phi_{(B_9,D_{11})}$$

$$-B_9^+D_{11}^+\Phi_{(A_{11},C_9)}$$

$$+C_9^+D_{11}^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_9^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_9,D_{12})} =$$

$$+A_{11}^+B_9^+\Phi_{(C_9,D_{12})}$$

$$-A_{11}^+C_9^+\Phi_{(B_9,D_{12})}$$

$$-B_9^+D_{12}^+\Phi_{(A_{11},C_9)}$$

$$+C_9^+D_{12}^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_9^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_{10},D_{11})} =$$

$$+A_{11}^+B_9^+\Phi_{(C_{10},D_{11})}$$

$$-A_{11}^+C_{10}^+\Phi_{(B_9,D_{11})}$$

$$-B_9^+D_{11}^+\Phi_{(A_{11},C_{10})}$$

$$+C_{10}^+D_{11}^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_{10}^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_{10},D_{12})} =$$

$$+A_{11}^+B_9^+\Phi_{(C_{10},D_{12})}$$

$$-A_{11}^+C_{10}^+\Phi_{(B_9,D_{12})}$$

$$-B_9^+D_{12}^+\Phi_{(A_{11},C_{10})}$$

$$+C_{10}^+D_{12}^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_{10}^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_{11},D_9)} =$$

$$+A_{11}^+B_9^+\Phi_{(C_{11},D_9)}$$

$$+A_{11}^+D_9^+\Phi_{(B_9,C_{11})}$$

$$+B_9^+C_{11}^+\Phi_{(A_{11},D_9)}$$

$$+C_{11}^+D_9^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_{11}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{11},B_9,C_{11},D_{10})} =$$

$$+A_{11}^+B_9^+\Phi_{(C_{11},D_{10})}$$

$$+A_{11}^+D_{10}^+\Phi_{(B_9,C_{11})}$$

$$+B_9^+C_{11}^+\Phi_{(A_{11},D_{10})}$$

$$+C_{11}^+D_{10}^+\Phi_{(A_{11},B_9)}$$

$$+A_{11}^+B_9^+C_{11}^+D_{10}^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_9, C_{12}, D_9)} = \\
&+ A_{11}^+ B_9^+ \Phi_{(C_{12}, D_9)} \\
&+ A_{11}^+ D_9^+ \Phi_{(B_9, C_{12})} \\
&+ B_9^+ C_{12}^+ \Phi_{(A_{11}, D_9)} \\
&+ C_{12}^+ D_9^+ \Phi_{(A_{11}, B_9)} \\
&+ A_{11}^+ B_9^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_9, C_{12}, D_{10})} = \\
&+ A_{11}^+ B_9^+ \Phi_{(C_{12}, D_{10})} \\
&+ A_{11}^+ D_{10}^+ \Phi_{(B_9, C_{12})} \\
&+ B_9^+ C_{12}^+ \Phi_{(A_{11}, D_{10})} \\
&+ C_{12}^+ D_{10}^+ \Phi_{(A_{11}, B_9)} \\
&+ A_{11}^+ B_9^+ C_{12}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_9, C_{13}, D_7)} = \\
&+ A_{11}^+ B_9^+ \Phi_{(C_{13}, D_7)} \\
&+ C_{13}^+ D_7^+ \Phi_{(A_{11}, B_9)} \\
&+ A_{11}^+ B_9^+ C_{13}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_9, C_{13}, D_8)} = \\
&+ A_{11}^+ B_9^+ \Phi_{(C_{13}, D_8)} \\
&+ C_{13}^+ D_8^+ \Phi_{(A_{11}, B_9)} \\
&+ A_{11}^+ B_9^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_9, C_{14}, D_7)} = \\
&+ A_{11}^+ B_9^+ \Phi_{(C_{14}, D_7)} \\
&+ C_{14}^+ D_7^+ \Phi_{(A_{11}, B_9)} \\
&+ A_{11}^+ B_9^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_9, C_{14}, D_8)} = \\
&+ A_{11}^+ B_9^+ \Phi_{(C_{14}, D_8)} \\
&+ C_{14}^+ D_8^+ \Phi_{(A_{11}, B_9)} \\
&+ A_{11}^+ B_9^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_9, C_{15}, D_6)} = \\
&+ A_{11}^+ B_9^+ \Phi_{(C_{15}, D_6)} \\
&+ C_{15}^+ D_6^+ \Phi_{(A_{11}, B_9)} \\
&+ A_{11}^+ B_9^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_1, D_1)} = \\
&+ C_1^+ \Phi_{(A_{11}, B_{10}, D_1)} \\
&+ D_1^+ \Phi_{(A_{11}, B_{10}, C_1)} \\
&+ A_{11}^+ B_{10}^+ \Phi_{(C_1, D_1)} \\
&+ C_1^+ D_1^+ \Phi_{(A_{11}, B_{10})} \\
&+ A_{11}^+ B_{10}^+ C_1^+ \Phi_{(D_1,)} \\
&+ A_{11}^+ B_{10}^+ D_1^+ \Phi_{(C_1,)} \\
&+ A_{11}^+ B_{10}^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_1, D_2)} = \\
&+ C_1^+ \Phi_{(A_{11}, B_{10}, D_2)} \\
&+ D_2^+ \Phi_{(A_{11}, B_{10}, C_1)} \\
&+ A_{11}^+ B_{10}^+ \Phi_{(C_1, D_2)} \\
&+ C_1^+ D_2^+ \Phi_{(A_{11}, B_{10})} \\
&+ A_{11}^+ B_{10}^+ C_1^+ \Phi_{(D_2,)} \\
&+ A_{11}^+ B_{10}^+ D_2^+ \Phi_{(C_1,)} \\
&+ A_{11}^+ B_{10}^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_1, D_3)} = \\
&+C_1^+ \Phi_{(A_{11}, B_{10}, D_3)} \\
&+D_3^+ \Phi_{(A_{11}, B_{10}, C_1)} \\
&+A_{11}^+ B_{10}^+ \Phi_{(C_1, D_3)} \\
&+C_1^+ D_3^+ \Phi_{(A_{11}, B_{10})} \\
&+A_{11}^+ B_{10}^+ C_1^+ \Phi_{(D_3,)} \\
&+A_{11}^+ B_{10}^+ D_3^+ \Phi_{(C_1,)} \\
&+A_{11}^+ B_{10}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_2, D_1)} = \\
&+C_2^+ \Phi_{(A_{11}, B_{10}, D_1)} \\
&+D_1^+ \Phi_{(A_{11}, B_{10}, C_2)} \\
&+A_{11}^+ B_{10}^+ \Phi_{(C_2, D_1)} \\
&+C_2^+ D_1^+ \Phi_{(A_{11}, B_{10})} \\
&+A_{11}^+ B_{10}^+ C_2^+ \Phi_{(D_1,)} \\
&+A_{11}^+ B_{10}^+ D_1^+ \Phi_{(C_2,)} \\
&+A_{11}^+ B_{10}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_2, D_2)} = \\
&+C_2^+ \Phi_{(A_{11}, B_{10}, D_2)} \\
&+D_2^+ \Phi_{(A_{11}, B_{10}, C_2)} \\
&+A_{11}^+ B_{10}^+ \Phi_{(C_2, D_2)} \\
&+C_2^+ D_2^+ \Phi_{(A_{11}, B_{10})} \\
&+A_{11}^+ B_{10}^+ C_2^+ \Phi_{(D_2,)} \\
&+A_{11}^+ B_{10}^+ D_2^+ \Phi_{(C_2,)} \\
&+A_{11}^+ B_{10}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_2, D_3)} = \\
&+C_2^+ \Phi_{(A_{11}, B_{10}, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +D_3^+ \Phi_{(A_{11}, B_{10}, C_2)} \\
& +A_{11}^+ B_{10}^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_{11}, B_{10})} \\
& +A_{11}^+ B_{10}^+ C_2^+ \Phi_{(D_3,)} \\
& +A_{11}^+ B_{10}^+ D_3^+ \Phi_{(C_2,)} \\
& +A_{11}^+ B_{10}^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{10}, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_{11}, B_{10}, D_1)} \\
& +D_1^+ \Phi_{(A_{11}, B_{10}, C_3)} \\
& +A_{11}^+ B_{10}^+ \Phi_{(C_3, D_1)} \\
& +C_3^+ D_1^+ \Phi_{(A_{11}, B_{10})} \\
& +A_{11}^+ B_{10}^+ C_3^+ \Phi_{(D_1,)} \\
& +A_{11}^+ B_{10}^+ D_1^+ \Phi_{(C_3,)} \\
& +A_{11}^+ B_{10}^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{10}, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_{11}, B_{10}, D_2)} \\
& +D_2^+ \Phi_{(A_{11}, B_{10}, C_3)} \\
& +A_{11}^+ B_{10}^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_{11}, B_{10})} \\
& +A_{11}^+ B_{10}^+ C_3^+ \Phi_{(D_2,)} \\
& +A_{11}^+ B_{10}^+ D_2^+ \Phi_{(C_3,)} \\
& +A_{11}^+ B_{10}^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{10}, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_{11}, B_{10}, D_3)} \\
& +D_3^+ \Phi_{(A_{11}, B_{10}, C_3)} \\
& +A_{11}^+ B_{10}^+ \Phi_{(C_3, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +C_3^+ D_3^+ \Phi_{(A_{11}, B_{10})} \\
& +A_{11}^+ B_{10}^+ C_3^+ \Phi_{(D_3,)} \\
& +A_{11}^+ B_{10}^+ D_3^+ \Phi_{(C_3,)} \\
& +A_{11}^+ B_{10}^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{10}, C_4, D_5)} = \\
& +A_{11}^+ B_{10}^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_{11}, B_{10})} \\
& +A_{11}^+ B_{10}^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{10}, C_5, D_4)} = \\
& +A_{11}^+ B_{10}^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_{11}, B_{10})} \\
& +A_{11}^+ B_{10}^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{10}, C_6, D_{15})} = \\
& +A_{11}^+ B_{10}^+ \Phi_{(C_6, D_{15})} \\
& +C_6^+ D_{15}^+ \Phi_{(A_{11}, B_{10})} \\
& +A_{11}^+ B_{10}^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{10}, C_7, D_{13})} = \\
& +A_{11}^+ B_{10}^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_{11}, B_{10})} \\
& +A_{11}^+ B_{10}^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{10}, C_7, D_{14})} = \\
& +A_{11}^+ B_{10}^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_{11}, B_{10})} \\
& +A_{11}^+ B_{10}^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_8, D_{13})} = \\
&+ A_{11}^+ B_{10}^+ \Phi_{(C_8, D_{13})} \\
&+ C_8^+ D_{13}^+ \Phi_{(A_{11}, B_{10})} \\
&+ A_{11}^+ B_{10}^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_8, D_{14})} = \\
&+ A_{11}^+ B_{10}^+ \Phi_{(C_8, D_{14})} \\
&+ C_8^+ D_{14}^+ \Phi_{(A_{11}, B_{10})} \\
&+ A_{11}^+ B_{10}^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_9, D_{11})} = \\
&+ A_{11}^+ B_{10}^+ \Phi_{(C_9, D_{11})} \\
&- A_{11}^+ C_9^+ \Phi_{(B_{10}, D_{11})} \\
&- B_{10}^+ D_{11}^+ \Phi_{(A_{11}, C_9)} \\
&+ C_9^+ D_{11}^+ \Phi_{(A_{11}, B_{10})} \\
&+ A_{11}^+ B_{10}^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_9, D_{12})} = \\
&+ A_{11}^+ B_{10}^+ \Phi_{(C_9, D_{12})} \\
&- A_{11}^+ C_9^+ \Phi_{(B_{10}, D_{12})} \\
&- B_{10}^+ D_{12}^+ \Phi_{(A_{11}, C_9)} \\
&+ C_9^+ D_{12}^+ \Phi_{(A_{11}, B_{10})} \\
&+ A_{11}^+ B_{10}^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_{10}, D_{11})} = \\
&+ A_{11}^+ B_{10}^+ \Phi_{(C_{10}, D_{11})} \\
&- A_{11}^+ C_{10}^+ \Phi_{(B_{10}, D_{11})} \\
&- B_{10}^+ D_{11}^+ \Phi_{(A_{11}, C_{10})}
\end{aligned}$$

$$\begin{aligned}
& +C_{10}^+D_{11}^+\Phi_{(A_{11},B_{10})} \\
& +A_{11}^+B_{10}^+C_{10}^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11},B_{10},C_{10},D_{12})} = \\
& +A_{11}^+B_{10}^+\Phi_{(C_{10},D_{12})} \\
& -A_{11}^+C_{10}^+\Phi_{(B_{10},D_{12})} \\
& -B_{10}^+D_{12}^+\Phi_{(A_{11},C_{10})} \\
& +C_{10}^+D_{12}^+\Phi_{(A_{11},B_{10})} \\
& +A_{11}^+B_{10}^+C_{10}^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11},B_{10},C_{11},D_9)} = \\
& +A_{11}^+B_{10}^+\Phi_{(C_{11},D_9)} \\
& +A_{11}^+D_9^+\Phi_{(B_{10},C_{11})} \\
& +B_{10}^+C_{11}^+\Phi_{(A_{11},D_9)} \\
& +C_{11}^+D_9^+\Phi_{(A_{11},B_{10})} \\
& +A_{11}^+B_{10}^+C_{11}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11},B_{10},C_{11},D_{10})} = \\
& +A_{11}^+B_{10}^+\Phi_{(C_{11},D_{10})} \\
& +A_{11}^+D_{10}^+\Phi_{(B_{10},C_{11})} \\
& +B_{10}^+C_{11}^+\Phi_{(A_{11},D_{10})} \\
& +C_{11}^+D_{10}^+\Phi_{(A_{11},B_{10})} \\
& +A_{11}^+B_{10}^+C_{11}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11},B_{10},C_{12},D_9)} = \\
& +A_{11}^+B_{10}^+\Phi_{(C_{12},D_9)} \\
& +A_{11}^+D_9^+\Phi_{(B_{10},C_{12})} \\
& +B_{10}^+C_{12}^+\Phi_{(A_{11},D_9)} \\
& +C_{12}^+D_9^+\Phi_{(A_{11},B_{10})}
\end{aligned}$$

$$+A_{11}^+B_{10}^+C_{12}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{10},C_{12},D_{10})} =$$

$$+A_{11}^+B_{10}^+\Phi_{(C_{12},D_{10})}$$

$$+A_{11}^+D_{10}^+\Phi_{(B_{10},C_{12})}$$

$$+B_{10}^+C_{12}^+\Phi_{(A_{11},D_{10})}$$

$$+C_{12}^+D_{10}^+\Phi_{(A_{11},B_{10})}$$

$$+A_{11}^+B_{10}^+C_{12}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{10},C_{13},D_7)} =$$

$$+A_{11}^+B_{10}^+\Phi_{(C_{13},D_7)}$$

$$+C_{13}^+D_7^+\Phi_{(A_{11},B_{10})}$$

$$+A_{11}^+B_{10}^+C_{13}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{10},C_{13},D_8)} =$$

$$+A_{11}^+B_{10}^+\Phi_{(C_{13},D_8)}$$

$$+C_{13}^+D_8^+\Phi_{(A_{11},B_{10})}$$

$$+A_{11}^+B_{10}^+C_{13}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{10},C_{14},D_7)} =$$

$$+A_{11}^+B_{10}^+\Phi_{(C_{14},D_7)}$$

$$+C_{14}^+D_7^+\Phi_{(A_{11},B_{10})}$$

$$+A_{11}^+B_{10}^+C_{14}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{10},C_{14},D_8)} =$$

$$+A_{11}^+B_{10}^+\Phi_{(C_{14},D_8)}$$

$$+C_{14}^+D_8^+\Phi_{(A_{11},B_{10})}$$

$$+A_{11}^+B_{10}^+C_{14}^+D_8^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{10}, C_{15}, D_6)} = \\
&+ A_{11}^+ B_{10}^+ \Phi_{(C_{15}, D_6)} \\
&+ C_{15}^+ D_6^+ \Phi_{(A_{11}, B_{10})} \\
&+ A_{11}^+ B_{10}^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{11}, C_5, D_6)} = \\
&+ A_{11}^+ B_{11}^+ C_5^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{11}, C_6, D_5)} = \\
&+ A_{11}^+ B_{11}^+ C_6^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{11}, C_9, D_9)} = \\
&- A_{11}^+ C_9^+ \Phi_{(B_{11}, D_9)} \\
&+ A_{11}^+ D_9^+ \Phi_{(B_{11}, C_9)} \\
&+ B_{11}^+ C_9^+ \Phi_{(A_{11}, D_9)} \\
&- B_{11}^+ D_9^+ \Phi_{(A_{11}, C_9)} \\
&+ A_{11}^+ B_{11}^+ C_9^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{11}, C_9, D_{10})} = \\
&- A_{11}^+ C_9^+ \Phi_{(B_{11}, D_{10})} \\
&+ A_{11}^+ D_{10}^+ \Phi_{(B_{11}, C_9)} \\
&+ B_{11}^+ C_9^+ \Phi_{(A_{11}, D_{10})} \\
&- B_{11}^+ D_{10}^+ \Phi_{(A_{11}, C_9)} \\
&+ A_{11}^+ B_{11}^+ C_9^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{11}, C_{10}, D_9)} = \\
&- A_{11}^+ C_{10}^+ \Phi_{(B_{11}, D_9)} \\
&+ A_{11}^+ D_9^+ \Phi_{(B_{11}, C_{10})} \\
&+ B_{11}^+ C_{10}^+ \Phi_{(A_{11}, D_9)}
\end{aligned}$$

$$\begin{aligned}
& -B_{11}^+ D_9^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_{11}^+ C_{10}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{11}, C_{10}, D_{10})} = \\
& -A_{11}^+ C_{10}^+ \Phi_{(B_{11}, D_{10})} \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_{11}, D_{10})} \\
& -B_{11}^+ D_{10}^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_{11}^+ C_{10}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{12}, C_5, D_6)} = \\
& +A_{11}^+ B_{12}^+ C_5^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{12}, C_6, D_5)} = \\
& +A_{11}^+ B_{12}^+ C_6^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{12}, C_9, D_9)} = \\
& -A_{11}^+ C_9^+ \Phi_{(B_{12}, D_9)} \\
& +A_{11}^+ D_9^+ \Phi_{(B_{12}, C_9)} \\
& +B_{12}^+ C_9^+ \Phi_{(A_{11}, D_9)} \\
& -B_{12}^+ D_9^+ \Phi_{(A_{11}, C_9)} \\
& +A_{11}^+ B_{12}^+ C_9^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{12}, C_9, D_{10})} = \\
& -A_{11}^+ C_9^+ \Phi_{(B_{12}, D_{10})} \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_{12}, C_9)} \\
& +B_{12}^+ C_9^+ \Phi_{(A_{11}, D_{10})} \\
& -B_{12}^+ D_{10}^+ \Phi_{(A_{11}, C_9)} \\
& +A_{11}^+ B_{12}^+ C_9^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{12}, C_{10}, D_9)} = & \\
& -A_{11}^+ C_{10}^+ \Phi_{(B_{12}, D_9)} \\
& +A_{11}^+ D_9^+ \Phi_{(B_{12}, C_{10})} \\
& +B_{12}^+ C_{10}^+ \Phi_{(A_{11}, D_9)} \\
& -B_{12}^+ D_9^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_{12}^+ C_{10}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{12}, C_{10}, D_{10})} = & \\
& -A_{11}^+ C_{10}^+ \Phi_{(B_{12}, D_{10})} \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_{12}, C_{10})} \\
& +B_{12}^+ C_{10}^+ \Phi_{(A_{11}, D_{10})} \\
& -B_{12}^+ D_{10}^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_{12}^+ C_{10}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{13}, C_1, D_6)} = & \\
& +C_1^+ \Phi_{(A_{11}, B_{13}, D_6)} \\
& +A_{11}^+ B_{13}^+ D_6^+ \Phi_{(C_1,)} \\
& +A_{11}^+ B_{13}^+ C_1^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{13}, C_2, D_6)} = & \\
& +C_2^+ \Phi_{(A_{11}, B_{13}, D_6)} \\
& +A_{11}^+ B_{13}^+ D_6^+ \Phi_{(C_2,)} \\
& +A_{11}^+ B_{13}^+ C_2^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{13}, C_3, D_6)} = & \\
& +C_3^+ \Phi_{(A_{11}, B_{13}, D_6)} \\
& +A_{11}^+ B_{13}^+ D_6^+ \Phi_{(C_3,)} \\
& +A_{11}^+ B_{13}^+ C_3^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{13}, C_6, D_1)} = \\
&+ D_1^+ \Phi_{(A_{11}, B_{13}, C_6)} \\
&+ A_{11}^+ B_{13}^+ C_6^+ \Phi_{(D_1,)} \\
&+ A_{11}^+ B_{13}^+ C_6^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{13}, C_6, D_2)} = \\
&+ D_2^+ \Phi_{(A_{11}, B_{13}, C_6)} \\
&+ A_{11}^+ B_{13}^+ C_6^+ \Phi_{(D_2,)} \\
&+ A_{11}^+ B_{13}^+ C_6^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{13}, C_6, D_3)} = \\
&+ D_3^+ \Phi_{(A_{11}, B_{13}, C_6)} \\
&+ A_{11}^+ B_{13}^+ C_6^+ \Phi_{(D_3,)} \\
&+ A_{11}^+ B_{13}^+ C_6^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{13}, C_7, D_9)} = \\
&+ A_{11}^+ D_9^+ \Phi_{(B_{13}, C_7)} \\
&+ B_{13}^+ C_7^+ \Phi_{(A_{11}, D_9)} \\
&+ A_{11}^+ B_{13}^+ C_7^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{13}, C_7, D_{10})} = \\
&+ A_{11}^+ D_{10}^+ \Phi_{(B_{13}, C_7)} \\
&+ B_{13}^+ C_7^+ \Phi_{(A_{11}, D_{10})} \\
&+ A_{11}^+ B_{13}^+ C_7^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{11}, B_{13}, C_8, D_9)} = \\
&+ A_{11}^+ D_9^+ \Phi_{(B_{13}, C_8)} \\
&+ B_{13}^+ C_8^+ \Phi_{(A_{11}, D_9)}
\end{aligned}$$

$$+A_{11}^+B_{13}^+C_8^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{13},C_8,D_{10})} =$$

$$+A_{11}^+D_{10}^+\Phi_{(B_{13},C_8)}$$

$$+B_{13}^+C_8^+\Phi_{(A_{11},D_{10})}$$

$$+A_{11}^+B_{13}^+C_8^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{13},C_9,D_7)} =$$

$$-A_{11}^+C_9^+\Phi_{(B_{13},D_7)}$$

$$-B_{13}^+D_7^+\Phi_{(A_{11},C_9)}$$

$$+A_{11}^+B_{13}^+C_9^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{13},C_9,D_8)} =$$

$$-A_{11}^+C_9^+\Phi_{(B_{13},D_8)}$$

$$-B_{13}^+D_8^+\Phi_{(A_{11},C_9)}$$

$$+A_{11}^+B_{13}^+C_9^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{13},C_{10},D_7)} =$$

$$-A_{11}^+C_{10}^+\Phi_{(B_{13},D_7)}$$

$$-B_{13}^+D_7^+\Phi_{(A_{11},C_{10})}$$

$$+A_{11}^+B_{13}^+C_{10}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{13},C_{10},D_8)} =$$

$$-A_{11}^+C_{10}^+\Phi_{(B_{13},D_8)}$$

$$-B_{13}^+D_8^+\Phi_{(A_{11},C_{10})}$$

$$+A_{11}^+B_{13}^+C_{10}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{11},B_{14},C_1,D_6)} =$$

$$+C_1^+\Phi_{(A_{11},B_{14},D_6)}$$

$$\begin{aligned}
& +A_{11}^+B_{14}^+D_6^+\Phi_{(C_1,)} \\
& +A_{11}^+B_{14}^+C_1^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_{14},C_2,D_6)} = \\
& +C_2^+\Phi_{(A_{11},B_{14},D_6)} \\
& +A_{11}^+B_{14}^+D_6^+\Phi_{(C_2,)} \\
& +A_{11}^+B_{14}^+C_2^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_{14},C_3,D_6)} = \\
& +C_3^+\Phi_{(A_{11},B_{14},D_6)} \\
& +A_{11}^+B_{14}^+D_6^+\Phi_{(C_3,)} \\
& +A_{11}^+B_{14}^+C_3^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_{14},C_6,D_1)} = \\
& +D_1^+\Phi_{(A_{11},B_{14},C_6)} \\
& +A_{11}^+B_{14}^+C_6^+\Phi_{(D_1,)} \\
& +A_{11}^+B_{14}^+C_6^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_{14},C_6,D_2)} = \\
& +D_2^+\Phi_{(A_{11},B_{14},C_6)} \\
& +A_{11}^+B_{14}^+C_6^+\Phi_{(D_2,)} \\
& +A_{11}^+B_{14}^+C_6^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11},B_{14},C_6,D_3)} = \\
& +D_3^+\Phi_{(A_{11},B_{14},C_6)} \\
& +A_{11}^+B_{14}^+C_6^+\Phi_{(D_3,)} \\
& +A_{11}^+B_{14}^+C_6^+D_3^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{11},B_{14},C_7,D_9)} =$$

$$\begin{aligned}
& +A_{11}^+ D_9^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_{14}^+ C_7^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{14}, C_7, D_{10})} = \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_{11}, D_{10})} \\
& +A_{11}^+ B_{14}^+ C_7^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{14}, C_8, D_9)} = \\
& +A_{11}^+ D_9^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_{14}^+ C_8^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{14}, C_8, D_{10})} = \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_{11}, D_{10})} \\
& +A_{11}^+ B_{14}^+ C_8^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{14}, C_9, D_7)} = \\
& -A_{11}^+ C_9^+ \Phi_{(B_{14}, D_7)} \\
& -B_{14}^+ D_7^+ \Phi_{(A_{11}, C_9)} \\
& +A_{11}^+ B_{14}^+ C_9^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{11}, B_{14}, C_9, D_8)} = \\
& -A_{11}^+ C_9^+ \Phi_{(B_{14}, D_8)} \\
& -B_{14}^+ D_8^+ \Phi_{(A_{11}, C_9)} \\
& +A_{11}^+ B_{14}^+ C_9^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{14}, C_{10}, D_7)} = \\
& -A_{11}^+ C_{10}^+ \Phi_{(B_{14}, D_7)} \\
& -B_{14}^+ D_7^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_{14}^+ C_{10}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{14}, C_{10}, D_8)} = \\
& -A_{11}^+ C_{10}^+ \Phi_{(B_{14}, D_8)} \\
& -B_{14}^+ D_8^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_{14}^+ C_{10}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{15}, C_6, D_9)} = \\
& +A_{11}^+ D_9^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_{11}, D_9)} \\
& +A_{11}^+ B_{15}^+ C_6^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{15}, C_6, D_{10})} = \\
& +A_{11}^+ D_{10}^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_{11}, D_{10})} \\
& +A_{11}^+ B_{15}^+ C_6^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{15}, C_9, D_6)} = \\
& +A_{11}^+ C_9^+ \Phi_{(B_{15}, D_6)} \\
& +B_{15}^+ D_6^+ \Phi_{(A_{11}, C_9)} \\
& +A_{11}^+ B_{15}^+ C_9^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{11}, B_{15}, C_{10}, D_6)} = \\
& +A_{11}^+ C_{10}^+ \Phi_{(B_{15}, D_6)} \\
& +B_{15}^+ D_6^+ \Phi_{(A_{11}, C_{10})} \\
& +A_{11}^+ B_{15}^+ C_{10}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_1, C_1, D_9)} = \\
& + B_1^+ \Phi_{(A_{12}, C_1, D_9)} \\
& + C_1^+ \Phi_{(A_{12}, B_1, D_9)} \\
& + A_{12}^+ D_9^+ \Phi_{(B_1, C_1)} \\
& + B_1^+ C_1^+ \Phi_{(A_{12}, D_9)} \\
& + A_{12}^+ B_1^+ D_9^+ \Phi_{(C_1,)} \\
& + A_{12}^+ C_1^+ D_9^+ \Phi_{(B_1,)} \\
& + A_{12}^+ B_1^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_1, C_1, D_{10})} = \\
& + B_1^+ \Phi_{(A_{12}, C_1, D_{10})} \\
& + C_1^+ \Phi_{(A_{12}, B_1, D_{10})} \\
& + A_{12}^+ D_{10}^+ \Phi_{(B_1, C_1)} \\
& + B_1^+ C_1^+ \Phi_{(A_{12}, D_{10})} \\
& + A_{12}^+ B_1^+ D_{10}^+ \Phi_{(C_1,)} \\
& + A_{12}^+ C_1^+ D_{10}^+ \Phi_{(B_1,)} \\
& + A_{12}^+ B_1^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_1, C_2, D_9)} = \\
& + B_1^+ \Phi_{(A_{12}, C_2, D_9)} \\
& + C_2^+ \Phi_{(A_{12}, B_1, D_9)} \\
& + A_{12}^+ D_9^+ \Phi_{(B_1, C_2)} \\
& + B_1^+ C_2^+ \Phi_{(A_{12}, D_9)} \\
& + A_{12}^+ B_1^+ D_9^+ \Phi_{(C_2,)} \\
& + A_{12}^+ C_2^+ D_9^+ \Phi_{(B_1,)} \\
& + A_{12}^+ B_1^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{12}, B_1, C_2, D_{10})} =$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_{12}, C_2, D_{10})} \\
& +C_2^+ \Phi_{(A_{12}, B_1, D_{10})} \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_{12}, D_{10})} \\
& +A_{12}^+ B_1^+ D_{10}^+ \Phi_{(C_2,)} \\
& +A_{12}^+ C_2^+ D_{10}^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_1, C_3, D_9)} = \\
& +B_1^+ \Phi_{(A_{12}, C_3, D_9)} \\
& +C_3^+ \Phi_{(A_{12}, B_1, D_9)} \\
& +A_{12}^+ D_9^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_{12}, D_9)} \\
& +A_{12}^+ B_1^+ D_9^+ \Phi_{(C_3,)} \\
& +A_{12}^+ C_3^+ D_9^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_1, C_3, D_{10})} = \\
& +B_1^+ \Phi_{(A_{12}, C_3, D_{10})} \\
& +C_3^+ \Phi_{(A_{12}, B_1, D_{10})} \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_{12}, D_{10})} \\
& +A_{12}^+ B_1^+ D_{10}^+ \Phi_{(C_3,)} \\
& +A_{12}^+ C_3^+ D_{10}^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_1, C_5, D_7)} = \\
& +B_1^+ \Phi_{(A_{12}, C_5, D_7)} \\
& +A_{12}^+ C_5^+ D_7^+ \Phi_{(B_1,)}
\end{aligned}$$

$$+A_{12}^+B_1^+C_5^+D_7^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{12},B_1,C_5,D_8)} = \\ +B_1^+\Phi_{(A_{12},C_5,D_8)} \\ +A_{12}^+C_5^+D_8^+\Phi_{(B_1,)} \\ +A_{12}^+B_1^+C_5^+D_8^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_1,C_6,D_{13})} = \\ +B_1^+\Phi_{(A_{12},C_6,D_{13})} \\ +A_{12}^+C_6^+D_{13}^+\Phi_{(B_1,)} \\ +A_{12}^+B_1^+C_6^+D_{13}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_1,C_6,D_{14})} = \\ +B_1^+\Phi_{(A_{12},C_6,D_{14})} \\ +A_{12}^+C_6^+D_{14}^+\Phi_{(B_1,)} \\ +A_{12}^+B_1^+C_6^+D_{14}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_1,C_7,D_5)} = \\ +B_1^+\Phi_{(A_{12},C_7,D_5)} \\ +A_{12}^+C_7^+D_5^+\Phi_{(B_1,)} \\ +A_{12}^+B_1^+C_7^+D_5^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_1,C_8,D_5)} = \\ +B_1^+\Phi_{(A_{12},C_8,D_5)} \\ +A_{12}^+C_8^+D_5^+\Phi_{(B_1,)} \\ +A_{12}^+B_1^+C_8^+D_5^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_1,C_9,D_1)} = \\ +B_1^+\Phi_{(A_{12},C_9,D_1)} \end{aligned}$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_{12}, B_1, C_9)} \\
& +A_{12}^+ C_9^+ \Phi_{(B_1, D_1)} \\
& +B_1^+ D_1^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_1^+ C_9^+ \Phi_{(D_1,)} \\
& +A_{12}^+ C_9^+ D_1^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_1, C_9, D_2)} = \\
& +B_1^+ \Phi_{(A_{12}, C_9, D_2)} \\
& +D_2^+ \Phi_{(A_{12}, B_1, C_9)} \\
& +A_{12}^+ C_9^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_1^+ C_9^+ \Phi_{(D_2,)} \\
& +A_{12}^+ C_9^+ D_2^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_1, C_9, D_3)} = \\
& +B_1^+ \Phi_{(A_{12}, C_9, D_3)} \\
& +D_3^+ \Phi_{(A_{12}, B_1, C_9)} \\
& +A_{12}^+ C_9^+ \Phi_{(B_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_1^+ C_9^+ \Phi_{(D_3,)} \\
& +A_{12}^+ C_9^+ D_3^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_1, C_{10}, D_1)} = \\
& +B_1^+ \Phi_{(A_{12}, C_{10}, D_1)} \\
& +D_1^+ \Phi_{(A_{12}, B_1, C_{10})} \\
& +A_{12}^+ C_{10}^+ \Phi_{(B_1, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +B_1^+ D_1^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_1^+ C_{10}^+ \Phi_{(D_1,)} \\
& +A_{12}^+ C_{10}^+ D_1^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_1, C_{10}, D_2)} = \\
& +B_1^+ \Phi_{(A_{12}, C_{10}, D_2)} \\
& +D_2^+ \Phi_{(A_{12}, B_1, C_{10})} \\
& +A_{12}^+ C_{10}^+ \Phi_{(B_1, D_2)} \\
& +B_1^+ D_2^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_1^+ C_{10}^+ \Phi_{(D_2,)} \\
& +A_{12}^+ C_{10}^+ D_2^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_1, C_{10}, D_3)} = \\
& +B_1^+ \Phi_{(A_{12}, C_{10}, D_3)} \\
& +D_3^+ \Phi_{(A_{12}, B_1, C_{10})} \\
& +A_{12}^+ C_{10}^+ \Phi_{(B_1, D_3)} \\
& +B_1^+ D_3^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_1^+ C_{10}^+ \Phi_{(D_3,)} \\
& +A_{12}^+ C_{10}^+ D_3^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_1, C_{13}, D_6)} = \\
& +B_1^+ \Phi_{(A_{12}, C_{13}, D_6)} \\
& +A_{12}^+ C_{13}^+ D_6^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{12}, B_1, C_{14}, D_6)} =$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_{12}, C_{14}, D_6)} \\
& +A_{12}^+ C_{14}^+ D_6^+ \Phi_{(B_1,)} \\
& +A_{12}^+ B_1^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_2, C_1, D_9)} = \\
& +B_2^+ \Phi_{(A_{12}, C_1, D_9)} \\
& +C_1^+ \Phi_{(A_{12}, B_2, D_9)} \\
& +A_{12}^+ D_9^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_{12}, D_9)} \\
& +A_{12}^+ B_2^+ D_9^+ \Phi_{(C_1,)} \\
& +A_{12}^+ C_1^+ D_9^+ \Phi_{(B_2,)} \\
& +A_{12}^+ B_2^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_2, C_1, D_{10})} = \\
& +B_2^+ \Phi_{(A_{12}, C_1, D_{10})} \\
& +C_1^+ \Phi_{(A_{12}, B_2, D_{10})} \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_{12}, D_{10})} \\
& +A_{12}^+ B_2^+ D_{10}^+ \Phi_{(C_1,)} \\
& +A_{12}^+ C_1^+ D_{10}^+ \Phi_{(B_2,)} \\
& +A_{12}^+ B_2^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_2, C_2, D_9)} = \\
& +B_2^+ \Phi_{(A_{12}, C_2, D_9)} \\
& +C_2^+ \Phi_{(A_{12}, B_2, D_9)} \\
& +A_{12}^+ D_9^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_{12}, D_9)} \\
& +A_{12}^+ B_2^+ D_9^+ \Phi_{(C_2,)} \\
& +A_{12}^+ C_2^+ D_9^+ \Phi_{(B_2,)}
\end{aligned}$$

$$+A_{12}^+B_2^+C_2^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{12},B_2,C_2,D_{10})} =$$

$$+B_2^+\Phi_{(A_{12},C_2,D_{10})}$$

$$+C_2^+\Phi_{(A_{12},B_2,D_{10})}$$

$$+A_{12}^+D_{10}^+\Phi_{(B_2,C_2)}$$

$$+B_2^+C_2^+\Phi_{(A_{12},D_{10})}$$

$$+A_{12}^+B_2^+D_{10}^+\Phi_{(C_2,)}$$

$$+A_{12}^+C_2^+D_{10}^+\Phi_{(B_2,)}$$

$$+A_{12}^+B_2^+C_2^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{12},B_2,C_3,D_9)} =$$

$$+B_2^+\Phi_{(A_{12},C_3,D_9)}$$

$$+C_3^+\Phi_{(A_{12},B_2,D_9)}$$

$$+A_{12}^+D_9^+\Phi_{(B_2,C_3)}$$

$$+B_2^+C_3^+\Phi_{(A_{12},D_9)}$$

$$+A_{12}^+B_2^+D_9^+\Phi_{(C_3,)}$$

$$+A_{12}^+C_3^+D_9^+\Phi_{(B_2,)}$$

$$+A_{12}^+B_2^+C_3^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{12},B_2,C_3,D_{10})} =$$

$$+B_2^+\Phi_{(A_{12},C_3,D_{10})}$$

$$+C_3^+\Phi_{(A_{12},B_2,D_{10})}$$

$$+A_{12}^+D_{10}^+\Phi_{(B_2,C_3)}$$

$$+B_2^+C_3^+\Phi_{(A_{12},D_{10})}$$

$$+A_{12}^+B_2^+D_{10}^+\Phi_{(C_3,)}$$

$$+A_{12}^+C_3^+D_{10}^+\Phi_{(B_2,)}$$

$$+A_{12}^+B_2^+C_3^+D_{10}^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_2,C_5,D_7)} = \\
&+B_2^+\Phi_{(A_{12},C_5,D_7)} \\
&+A_{12}^+C_5^+D_7^+\Phi_{(B_2,)} \\
&+A_{12}^+B_2^+C_5^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_2,C_5,D_8)} = \\
&+B_2^+\Phi_{(A_{12},C_5,D_8)} \\
&+A_{12}^+C_5^+D_8^+\Phi_{(B_2,)} \\
&+A_{12}^+B_2^+C_5^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_2,C_6,D_{13})} = \\
&+B_2^+\Phi_{(A_{12},C_6,D_{13})} \\
&+A_{12}^+C_6^+D_{13}^+\Phi_{(B_2,)} \\
&+A_{12}^+B_2^+C_6^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_2,C_6,D_{14})} = \\
&+B_2^+\Phi_{(A_{12},C_6,D_{14})} \\
&+A_{12}^+C_6^+D_{14}^+\Phi_{(B_2,)} \\
&+A_{12}^+B_2^+C_6^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_2,C_7,D_5)} = \\
&+B_2^+\Phi_{(A_{12},C_7,D_5)} \\
&+A_{12}^+C_7^+D_5^+\Phi_{(B_2,)} \\
&+A_{12}^+B_2^+C_7^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_2,C_8,D_5)} = \\
&+B_2^+\Phi_{(A_{12},C_8,D_5)} \\
&+A_{12}^+C_8^+D_5^+\Phi_{(B_2,)} \\
&+A_{12}^+B_2^+C_8^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_2,C_9,D_1)} = \\
&+B_2^+\Phi_{(A_{12},C_9,D_1)} \\
&+D_1^+\Phi_{(A_{12},B_2,C_9)} \\
&+A_{12}^+C_9^+\Phi_{(B_2,D_1)} \\
&+B_2^+D_1^+\Phi_{(A_{12},C_9)} \\
&+A_{12}^+B_2^+C_9^+\Phi_{(D_1,)} \\
&+A_{12}^+C_9^+D_1^+\Phi_{(B_2,)} \\
&+A_{12}^+B_2^+C_9^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_2,C_9,D_2)} = \\
&+B_2^+\Phi_{(A_{12},C_9,D_2)} \\
&+D_2^+\Phi_{(A_{12},B_2,C_9)} \\
&+A_{12}^+C_9^+\Phi_{(B_2,D_2)} \\
&+B_2^+D_2^+\Phi_{(A_{12},C_9)} \\
&+A_{12}^+B_2^+C_9^+\Phi_{(D_2,)} \\
&+A_{12}^+C_9^+D_2^+\Phi_{(B_2,)} \\
&+A_{12}^+B_2^+C_9^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_2,C_9,D_3)} = \\
&+B_2^+\Phi_{(A_{12},C_9,D_3)} \\
&+D_3^+\Phi_{(A_{12},B_2,C_9)} \\
&+A_{12}^+C_9^+\Phi_{(B_2,D_3)} \\
&+B_2^+D_3^+\Phi_{(A_{12},C_9)} \\
&+A_{12}^+B_2^+C_9^+\Phi_{(D_3,)} \\
&+A_{12}^+C_9^+D_3^+\Phi_{(B_2,)} \\
&+A_{12}^+B_2^+C_9^+D_3^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{12},B_2,C_{10},D_1)} =$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_{12}, C_{10}, D_1)} \\
& +D_1^+ \Phi_{(A_{12}, B_2, C_{10})} \\
& +A_{12}^+ C_{10}^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_2^+ C_{10}^+ \Phi_{(D_1,)} \\
& +A_{12}^+ C_{10}^+ D_1^+ \Phi_{(B_2,)} \\
& +A_{12}^+ B_2^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_2, C_{10}, D_2)} = \\
& +B_2^+ \Phi_{(A_{12}, C_{10}, D_2)} \\
& +D_2^+ \Phi_{(A_{12}, B_2, C_{10})} \\
& +A_{12}^+ C_{10}^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_2^+ C_{10}^+ \Phi_{(D_2,)} \\
& +A_{12}^+ C_{10}^+ D_2^+ \Phi_{(B_2,)} \\
& +A_{12}^+ B_2^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_2, C_{10}, D_3)} = \\
& +B_2^+ \Phi_{(A_{12}, C_{10}, D_3)} \\
& +D_3^+ \Phi_{(A_{12}, B_2, C_{10})} \\
& +A_{12}^+ C_{10}^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_2^+ C_{10}^+ \Phi_{(D_3,)} \\
& +A_{12}^+ C_{10}^+ D_3^+ \Phi_{(B_2,)} \\
& +A_{12}^+ B_2^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_2, C_{13}, D_6)} = \\
& +B_2^+ \Phi_{(A_{12}, C_{13}, D_6)} \\
& +A_{12}^+ C_{13}^+ D_6^+ \Phi_{(B_2,)}
\end{aligned}$$

$$+A_{12}^+B_2^+C_{13}^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{12},B_2,C_{14},D_6)} =$$

$$+B_2^+\Phi_{(A_{12},C_{14},D_6)}$$

$$+A_{12}^+C_{14}^+D_6^+\Phi_{(B_2,)}$$

$$+A_{12}^+B_2^+C_{14}^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{12},B_3,C_1,D_9)} =$$

$$+B_3^+\Phi_{(A_{12},C_1,D_9)}$$

$$+C_1^+\Phi_{(A_{12},B_3,D_9)}$$

$$+A_{12}^+D_9^+\Phi_{(B_3,C_1)}$$

$$+B_3^+C_1^+\Phi_{(A_{12},D_9)}$$

$$+A_{12}^+B_3^+D_9^+\Phi_{(C_1,)}$$

$$+A_{12}^+C_1^+D_9^+\Phi_{(B_3,)}$$

$$+A_{12}^+B_3^+C_1^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{12},B_3,C_1,D_{10})} =$$

$$+B_3^+\Phi_{(A_{12},C_1,D_{10})}$$

$$+C_1^+\Phi_{(A_{12},B_3,D_{10})}$$

$$+A_{12}^+D_{10}^+\Phi_{(B_3,C_1)}$$

$$+B_3^+C_1^+\Phi_{(A_{12},D_{10})}$$

$$+A_{12}^+B_3^+D_{10}^+\Phi_{(C_1,)}$$

$$+A_{12}^+C_1^+D_{10}^+\Phi_{(B_3,)}$$

$$+A_{12}^+B_3^+C_1^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{12},B_3,C_2,D_9)} =$$

$$+B_3^+\Phi_{(A_{12},C_2,D_9)}$$

$$+C_2^+\Phi_{(A_{12},B_3,D_9)}$$

$$+A_{12}^+D_9^+\Phi_{(B_3,C_2)}$$

$$\begin{aligned}
& +B_3^+ C_2^+ \Phi_{(A_{12}, D_9)} \\
& +A_{12}^+ B_3^+ D_9^+ \Phi_{(C_2,)} \\
& +A_{12}^+ C_2^+ D_9^+ \Phi_{(B_3,)} \\
& +A_{12}^+ B_3^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_3, C_2, D_{10})} = \\
& +B_3^+ \Phi_{(A_{12}, C_2, D_{10})} \\
& +C_2^+ \Phi_{(A_{12}, B_3, D_{10})} \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_{12}, D_{10})} \\
& +A_{12}^+ B_3^+ D_{10}^+ \Phi_{(C_2,)} \\
& +A_{12}^+ C_2^+ D_{10}^+ \Phi_{(B_3,)} \\
& +A_{12}^+ B_3^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_3, C_3, D_9)} = \\
& +B_3^+ \Phi_{(A_{12}, C_3, D_9)} \\
& +C_3^+ \Phi_{(A_{12}, B_3, D_9)} \\
& +A_{12}^+ D_9^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_{12}, D_9)} \\
& +A_{12}^+ B_3^+ D_9^+ \Phi_{(C_3,)} \\
& +A_{12}^+ C_3^+ D_9^+ \Phi_{(B_3,)} \\
& +A_{12}^+ B_3^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_3, C_3, D_{10})} = \\
& +B_3^+ \Phi_{(A_{12}, C_3, D_{10})} \\
& +C_3^+ \Phi_{(A_{12}, B_3, D_{10})} \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_3, C_3)} \\
& +B_3^+ C_3^+ \Phi_{(A_{12}, D_{10})} \\
& +A_{12}^+ B_3^+ D_{10}^+ \Phi_{(C_3,)}
\end{aligned}$$

$$\begin{aligned}
& +A_{12}^+C_3^+D_{10}^+\Phi_{(B_3,)} \\
& +A_{12}^+B_3^+C_3^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_3,C_5,D_7)} = \\
& +B_3^+\Phi_{(A_{12},C_5,D_7)} \\
& +A_{12}^+C_5^+D_7^+\Phi_{(B_3,)} \\
& +A_{12}^+B_3^+C_5^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_3,C_5,D_8)} = \\
& +B_3^+\Phi_{(A_{12},C_5,D_8)} \\
& +A_{12}^+C_5^+D_8^+\Phi_{(B_3,)} \\
& +A_{12}^+B_3^+C_5^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_3,C_6,D_{13})} = \\
& +B_3^+\Phi_{(A_{12},C_6,D_{13})} \\
& +A_{12}^+C_6^+D_{13}^+\Phi_{(B_3,)} \\
& +A_{12}^+B_3^+C_6^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_3,C_6,D_{14})} = \\
& +B_3^+\Phi_{(A_{12},C_6,D_{14})} \\
& +A_{12}^+C_6^+D_{14}^+\Phi_{(B_3,)} \\
& +A_{12}^+B_3^+C_6^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_3,C_7,D_5)} = \\
& +B_3^+\Phi_{(A_{12},C_7,D_5)} \\
& +A_{12}^+C_7^+D_5^+\Phi_{(B_3,)} \\
& +A_{12}^+B_3^+C_7^+D_5^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{12},B_3,C_8,D_5)} =$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_{12}, C_8, D_5)} \\
& +A_{12}^+ C_8^+ D_5^+ \Phi_{(B_3,)} \\
& +A_{12}^+ B_3^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_3, C_9, D_1)} = \\
& +B_3^+ \Phi_{(A_{12}, C_9, D_1)} \\
& +D_1^+ \Phi_{(A_{12}, B_3, C_9)} \\
& +A_{12}^+ C_9^+ \Phi_{(B_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_3^+ C_9^+ \Phi_{(D_1,)} \\
& +A_{12}^+ C_9^+ D_1^+ \Phi_{(B_3,)} \\
& +A_{12}^+ B_3^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_3, C_9, D_2)} = \\
& +B_3^+ \Phi_{(A_{12}, C_9, D_2)} \\
& +D_2^+ \Phi_{(A_{12}, B_3, C_9)} \\
& +A_{12}^+ C_9^+ \Phi_{(B_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_3^+ C_9^+ \Phi_{(D_2,)} \\
& +A_{12}^+ C_9^+ D_2^+ \Phi_{(B_3,)} \\
& +A_{12}^+ B_3^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_3, C_9, D_3)} = \\
& +B_3^+ \Phi_{(A_{12}, C_9, D_3)} \\
& +D_3^+ \Phi_{(A_{12}, B_3, C_9)} \\
& +A_{12}^+ C_9^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_3^+ C_9^+ \Phi_{(D_3,)} \\
& +A_{12}^+ C_9^+ D_3^+ \Phi_{(B_3,)}
\end{aligned}$$

$$+A_{12}^+B_3^+C_9^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{12},B_3,C_{10},D_1)} =$$

$$+B_3^+\Phi_{(A_{12},C_{10},D_1)}$$

$$+D_1^+\Phi_{(A_{12},B_3,C_{10})}$$

$$+A_{12}^+C_{10}^+\Phi_{(B_3,D_1)}$$

$$+B_3^+D_1^+\Phi_{(A_{12},C_{10})}$$

$$+A_{12}^+B_3^+C_{10}^+\Phi_{(D_1,)}$$

$$+A_{12}^+C_{10}^+D_1^+\Phi_{(B_3,)}$$

$$+A_{12}^+B_3^+C_{10}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{12},B_3,C_{10},D_2)} =$$

$$+B_3^+\Phi_{(A_{12},C_{10},D_2)}$$

$$+D_2^+\Phi_{(A_{12},B_3,C_{10})}$$

$$+A_{12}^+C_{10}^+\Phi_{(B_3,D_2)}$$

$$+B_3^+D_2^+\Phi_{(A_{12},C_{10})}$$

$$+A_{12}^+B_3^+C_{10}^+\Phi_{(D_2,)}$$

$$+A_{12}^+C_{10}^+D_2^+\Phi_{(B_3,)}$$

$$+A_{12}^+B_3^+C_{10}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_{12},B_3,C_{10},D_3)} =$$

$$+B_3^+\Phi_{(A_{12},C_{10},D_3)}$$

$$+D_3^+\Phi_{(A_{12},B_3,C_{10})}$$

$$+A_{12}^+C_{10}^+\Phi_{(B_3,D_3)}$$

$$+B_3^+D_3^+\Phi_{(A_{12},C_{10})}$$

$$+A_{12}^+B_3^+C_{10}^+\Phi_{(D_3,)}$$

$$+A_{12}^+C_{10}^+D_3^+\Phi_{(B_3,)}$$

$$+A_{12}^+B_3^+C_{10}^+D_3^+\Phi_{()}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_3,C_{13},D_6)} = \\
&+B_3^+\Phi_{(A_{12},C_{13},D_6)} \\
&+A_{12}^+C_{13}^+D_6^+\Phi_{(B_3,)} \\
&+A_{12}^+B_3^+C_{13}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_3,C_{14},D_6)} = \\
&+B_3^+\Phi_{(A_{12},C_{14},D_6)} \\
&+A_{12}^+C_{14}^+D_6^+\Phi_{(B_3,)} \\
&+A_{12}^+B_3^+C_{14}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_4,C_5,D_9)} = \\
&+A_{12}^+D_9^+\Phi_{(B_4,C_5)} \\
&+B_4^+C_5^+\Phi_{(A_{12},D_9)} \\
&+A_{12}^+B_4^+C_5^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_4,C_5,D_{10})} = \\
&+A_{12}^+D_{10}^+\Phi_{(B_4,C_5)} \\
&+B_4^+C_5^+\Phi_{(A_{12},D_{10})} \\
&+A_{12}^+B_4^+C_5^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_4,C_9,D_5)} = \\
&+A_{12}^+C_9^+\Phi_{(B_4,D_5)} \\
&+B_4^+D_5^+\Phi_{(A_{12},C_9)} \\
&+A_{12}^+B_4^+C_9^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12},B_4,C_{10},D_5)} = \\
&+A_{12}^+C_{10}^+\Phi_{(B_4,D_5)} \\
&+B_4^+D_5^+\Phi_{(A_{12},C_{10})} \\
&+A_{12}^+B_4^+C_{10}^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_5, C_1, D_7)} = \\
&+ C_1^+ \Phi_{(A_{12}, B_5, D_7)} \\
&+ A_{12}^+ B_5^+ D_7^+ \Phi_{(C_1,)} \\
&+ A_{12}^+ B_5^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_5, C_1, D_8)} = \\
&+ C_1^+ \Phi_{(A_{12}, B_5, D_8)} \\
&+ A_{12}^+ B_5^+ D_8^+ \Phi_{(C_1,)} \\
&+ A_{12}^+ B_5^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_5, C_2, D_7)} = \\
&+ C_2^+ \Phi_{(A_{12}, B_5, D_7)} \\
&+ A_{12}^+ B_5^+ D_7^+ \Phi_{(C_2,)} \\
&+ A_{12}^+ B_5^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_5, C_2, D_8)} = \\
&+ C_2^+ \Phi_{(A_{12}, B_5, D_8)} \\
&+ A_{12}^+ B_5^+ D_8^+ \Phi_{(C_2,)} \\
&+ A_{12}^+ B_5^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_5, C_3, D_7)} = \\
&+ C_3^+ \Phi_{(A_{12}, B_5, D_7)} \\
&+ A_{12}^+ B_5^+ D_7^+ \Phi_{(C_3,)} \\
&+ A_{12}^+ B_5^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_5, C_3, D_8)} = \\
&+ C_3^+ \Phi_{(A_{12}, B_5, D_8)} \\
&+ A_{12}^+ B_5^+ D_8^+ \Phi_{(C_3,)}
\end{aligned}$$

$$+A_{12}^+B_5^+C_3^+D_8^+\Phi_{()}$$

$$\begin{aligned} \Phi_{(A_{12},B_5,C_4,D_9)} = \\ +A_{12}^+D_9^+\Phi_{(B_5,C_4)} \\ +B_5^+C_4^+\Phi_{(A_{12},D_9)} \\ +A_{12}^+B_5^+C_4^+D_9^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_5,C_4,D_{10})} = \\ +A_{12}^+D_{10}^+\Phi_{(B_5,C_4)} \\ +B_5^+C_4^+\Phi_{(A_{12},D_{10})} \\ +A_{12}^+B_5^+C_4^+D_{10}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_5,C_6,D_{11})} = \\ +A_{12}^+B_5^+C_6^+D_{11}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_5,C_6,D_{12})} = \\ +A_{12}^+B_5^+C_6^+D_{12}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_5,C_7,D_1)} = \\ +D_1^+\Phi_{(A_{12},B_5,C_7)} \\ +A_{12}^+B_5^+C_7^+\Phi_{(D_1,)} \\ +A_{12}^+B_5^+C_7^+D_1^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_5,C_7,D_2)} = \\ +D_2^+\Phi_{(A_{12},B_5,C_7)} \\ +A_{12}^+B_5^+C_7^+\Phi_{(D_2,)} \\ +A_{12}^+B_5^+C_7^+D_2^+\Phi_{()} \end{aligned}$$

$$\Phi_{(A_{12},B_5,C_7,D_3)} =$$

$$\begin{aligned}
& +D_3^+ \Phi_{(A_{12}, B_5, C_7)} \\
& +A_{12}^+ B_5^+ C_7^+ \Phi_{(D_3,)} \\
& +A_{12}^+ B_5^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_5, C_8, D_1)} = \\
& +D_1^+ \Phi_{(A_{12}, B_5, C_8)} \\
& +A_{12}^+ B_5^+ C_8^+ \Phi_{(D_1,)} \\
& +A_{12}^+ B_5^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_5, C_8, D_2)} = \\
& +D_2^+ \Phi_{(A_{12}, B_5, C_8)} \\
& +A_{12}^+ B_5^+ C_8^+ \Phi_{(D_2,)} \\
& +A_{12}^+ B_5^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_5, C_8, D_3)} = \\
& +D_3^+ \Phi_{(A_{12}, B_5, C_8)} \\
& +A_{12}^+ B_5^+ C_8^+ \Phi_{(D_3,)} \\
& +A_{12}^+ B_5^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_5, C_9, D_4)} = \\
& +A_{12}^+ C_9^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_5^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_5, C_{10}, D_4)} = \\
& +A_{12}^+ C_{10}^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_5^+ C_{10}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{12},B_5,C_{11},D_6)} = \\ +A_{12}^+B_5^+C_{11}^+D_6^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{12},B_5,C_{12},D_6)} = \\ +A_{12}^+B_5^+C_{12}^+D_6^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{12},B_6,C_1,D_{13})} = \\ +C_1^+\Phi_{(A_{12},B_6,D_{13})} \\ +A_{12}^+B_6^+D_{13}^+\Phi_{(C_1,)} \\ +A_{12}^+B_6^+C_1^+D_{13}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{12},B_6,C_1,D_{14})} = \\ +C_1^+\Phi_{(A_{12},B_6,D_{14})} \\ +A_{12}^+B_6^+D_{14}^+\Phi_{(C_1,)} \\ +A_{12}^+B_6^+C_1^+D_{14}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{12},B_6,C_2,D_{13})} = \\ +C_2^+\Phi_{(A_{12},B_6,D_{13})} \\ +A_{12}^+B_6^+D_{13}^+\Phi_{(C_2,)} \\ +A_{12}^+B_6^+C_2^+D_{13}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{12},B_6,C_2,D_{14})} = \\ +C_2^+\Phi_{(A_{12},B_6,D_{14})} \\ +A_{12}^+B_6^+D_{14}^+\Phi_{(C_2,)} \\ +A_{12}^+B_6^+C_2^+D_{14}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{12},B_6,C_3,D_{13})} = \\ +C_3^+\Phi_{(A_{12},B_6,D_{13})} \\ +A_{12}^+B_6^+D_{13}^+\Phi_{(C_3,)}\end{aligned}$$

$$+A_{12}^+B_6^+C_3^+D_{13}^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_6,C_3,D_{14})} =$$

$$+C_3^+\Phi_{(A_{12},B_6,D_{14})}$$

$$+A_{12}^+B_6^+D_{14}^+\Phi_{(C_3,)}$$

$$+A_{12}^+B_6^+C_3^+D_{14}^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_6,C_5,D_{11})} =$$

$$+A_{12}^+B_6^+C_5^+D_{11}^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_6,C_5,D_{12})} =$$

$$+A_{12}^+B_6^+C_5^+D_{12}^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_6,C_9,D_{15})} =$$

$$+A_{12}^+C_9^+\Phi_{(B_6,D_{15})}$$

$$+B_6^+D_{15}^+\Phi_{(A_{12},C_9)}$$

$$+A_{12}^+B_6^+C_9^+D_{15}^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_6,C_{10},D_{15})} =$$

$$+A_{12}^+C_{10}^+\Phi_{(B_6,D_{15})}$$

$$+B_6^+D_{15}^+\Phi_{(A_{12},C_{10})}$$

$$+A_{12}^+B_6^+C_{10}^+D_{15}^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_6,C_{11},D_5)} =$$

$$+A_{12}^+B_6^+C_{11}^+D_5^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_6,C_{12},D_5)} =$$

$$+A_{12}^+B_6^+C_{12}^+D_5^+\Phi_{()} \\$$

$$\begin{aligned}
\Phi_{(A_{12}, B_6, C_{13}, D_1)} = & \\
& + D_1^+ \Phi_{(A_{12}, B_6, C_{13})} \\
& + A_{12}^+ B_6^+ C_{13}^+ \Phi_{(D_1,)} \\
& + A_{12}^+ B_6^+ C_{13}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_6, C_{13}, D_2)} = & \\
& + D_2^+ \Phi_{(A_{12}, B_6, C_{13})} \\
& + A_{12}^+ B_6^+ C_{13}^+ \Phi_{(D_2,)} \\
& + A_{12}^+ B_6^+ C_{13}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_6, C_{13}, D_3)} = & \\
& + D_3^+ \Phi_{(A_{12}, B_6, C_{13})} \\
& + A_{12}^+ B_6^+ C_{13}^+ \Phi_{(D_3,)} \\
& + A_{12}^+ B_6^+ C_{13}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_6, C_{14}, D_1)} = & \\
& + D_1^+ \Phi_{(A_{12}, B_6, C_{14})} \\
& + A_{12}^+ B_6^+ C_{14}^+ \Phi_{(D_1,)} \\
& + A_{12}^+ B_6^+ C_{14}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_6, C_{14}, D_2)} = & \\
& + D_2^+ \Phi_{(A_{12}, B_6, C_{14})} \\
& + A_{12}^+ B_6^+ C_{14}^+ \Phi_{(D_2,)} \\
& + A_{12}^+ B_6^+ C_{14}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_6, C_{14}, D_3)} = & \\
& + D_3^+ \Phi_{(A_{12}, B_6, C_{14})} \\
& + A_{12}^+ B_6^+ C_{14}^+ \Phi_{(D_3,)} \\
& + A_{12}^+ B_6^+ C_{14}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_6, C_{15}, D_9)} = & \\
& + A_{12}^+ D_9^+ \Phi_{(B_6, C_{15})} \\
& + B_6^+ C_{15}^+ \Phi_{(A_{12}, D_9)} \\
& + A_{12}^+ B_6^+ C_{15}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_6, C_{15}, D_{10})} = & \\
& + A_{12}^+ D_{10}^+ \Phi_{(B_6, C_{15})} \\
& + B_6^+ C_{15}^+ \Phi_{(A_{12}, D_{10})} \\
& + A_{12}^+ B_6^+ C_{15}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_7, C_1, D_5)} = & \\
& + C_1^+ \Phi_{(A_{12}, B_7, D_5)} \\
& + A_{12}^+ B_7^+ D_5^+ \Phi_{(C_1,)} \\
& + A_{12}^+ B_7^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_7, C_2, D_5)} = & \\
& + C_2^+ \Phi_{(A_{12}, B_7, D_5)} \\
& + A_{12}^+ B_7^+ D_5^+ \Phi_{(C_2,)} \\
& + A_{12}^+ B_7^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_7, C_3, D_5)} = & \\
& + C_3^+ \Phi_{(A_{12}, B_7, D_5)} \\
& + A_{12}^+ B_7^+ D_5^+ \Phi_{(C_3,)} \\
& + A_{12}^+ B_7^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_7, C_5, D_1)} = & \\
& + D_1^+ \Phi_{(A_{12}, B_7, C_5)} \\
& + A_{12}^+ B_7^+ C_5^+ \Phi_{(D_1,)}
\end{aligned}$$

$$+A_{12}^+B_7^+C_5^+D_1^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{12},B_7,C_5,D_2)} = \\ +D_2^+\Phi_{(A_{12},B_7,C_5)} \\ +A_{12}^+B_7^+C_5^+\Phi_{(D_2,)} \\ +A_{12}^+B_7^+C_5^+D_2^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_7,C_5,D_3)} = \\ +D_3^+\Phi_{(A_{12},B_7,C_5)} \\ +A_{12}^+B_7^+C_5^+\Phi_{(D_3,)} \\ +A_{12}^+B_7^+C_5^+D_3^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_7,C_9,D_{13})} = \\ -A_{12}^+C_9^+\Phi_{(B_7,D_{13})} \\ -B_7^+D_{13}^+\Phi_{(A_{12},C_9)} \\ +A_{12}^+B_7^+C_9^+D_{13}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_7,C_9,D_{14})} = \\ -A_{12}^+C_9^+\Phi_{(B_7,D_{14})} \\ -B_7^+D_{14}^+\Phi_{(A_{12},C_9)} \\ +A_{12}^+B_7^+C_9^+D_{14}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_7,C_{10},D_{13})} = \\ -A_{12}^+C_{10}^+\Phi_{(B_7,D_{13})} \\ -B_7^+D_{13}^+\Phi_{(A_{12},C_{10})} \\ +A_{12}^+B_7^+C_{10}^+D_{13}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_7,C_{10},D_{14})} = \\ -A_{12}^+C_{10}^+\Phi_{(B_7,D_{14})} \end{aligned}$$

$$\begin{aligned}
& -B_7^+ D_{14}^+ \Phi_{(A_{12}, C_{10})} \\
& + A_{12}^+ B_7^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_7, C_{13}, D_9)} = \\
& + A_{12}^+ D_9^+ \Phi_{(B_7, C_{13})} \\
& + B_7^+ C_{13}^+ \Phi_{(A_{12}, D_9)} \\
& + A_{12}^+ B_7^+ C_{13}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_7, C_{13}, D_{10})} = \\
& + A_{12}^+ D_{10}^+ \Phi_{(B_7, C_{13})} \\
& + B_7^+ C_{13}^+ \Phi_{(A_{12}, D_{10})} \\
& + A_{12}^+ B_7^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_7, C_{14}, D_9)} = \\
& + A_{12}^+ D_9^+ \Phi_{(B_7, C_{14})} \\
& + B_7^+ C_{14}^+ \Phi_{(A_{12}, D_9)} \\
& + A_{12}^+ B_7^+ C_{14}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_7, C_{14}, D_{10})} = \\
& + A_{12}^+ D_{10}^+ \Phi_{(B_7, C_{14})} \\
& + B_7^+ C_{14}^+ \Phi_{(A_{12}, D_{10})} \\
& + A_{12}^+ B_7^+ C_{14}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_8, C_1, D_5)} = \\
& + C_1^+ \Phi_{(A_{12}, B_8, D_5)} \\
& + A_{12}^+ B_8^+ D_5^+ \Phi_{(C_1,)} \\
& + A_{12}^+ B_8^+ C_1^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{12}, B_8, C_2, D_5)} =$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_{12}, B_8, D_5)} \\
& +A_{12}^+ B_8^+ D_5^+ \Phi_{(C_2,)} \\
& +A_{12}^+ B_8^+ C_2^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_8, C_3, D_5)} = \\
& +C_3^+ \Phi_{(A_{12}, B_8, D_5)} \\
& +A_{12}^+ B_8^+ D_5^+ \Phi_{(C_3,)} \\
& +A_{12}^+ B_8^+ C_3^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_8, C_5, D_1)} = \\
& +D_1^+ \Phi_{(A_{12}, B_8, C_5)} \\
& +A_{12}^+ B_8^+ C_5^+ \Phi_{(D_1,)} \\
& +A_{12}^+ B_8^+ C_5^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_8, C_5, D_2)} = \\
& +D_2^+ \Phi_{(A_{12}, B_8, C_5)} \\
& +A_{12}^+ B_8^+ C_5^+ \Phi_{(D_2,)} \\
& +A_{12}^+ B_8^+ C_5^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_8, C_5, D_3)} = \\
& +D_3^+ \Phi_{(A_{12}, B_8, C_5)} \\
& +A_{12}^+ B_8^+ C_5^+ \Phi_{(D_3,)} \\
& +A_{12}^+ B_8^+ C_5^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_8, C_9, D_{13})} = \\
& -A_{12}^+ C_9^+ \Phi_{(B_8, D_{13})} \\
& -B_8^+ D_{13}^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_8^+ C_9^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_8, C_9, D_{14})} = & \\
& -A_{12}^+ C_9^+ \Phi_{(B_8, D_{14})} \\
& -B_8^+ D_{14}^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_8^+ C_9^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_8, C_{10}, D_{13})} = & \\
& -A_{12}^+ C_{10}^+ \Phi_{(B_8, D_{13})} \\
& -B_8^+ D_{13}^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_8^+ C_{10}^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_8, C_{10}, D_{14})} = & \\
& -A_{12}^+ C_{10}^+ \Phi_{(B_8, D_{14})} \\
& -B_8^+ D_{14}^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_8^+ C_{10}^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_8, C_{13}, D_9)} = & \\
& +A_{12}^+ D_9^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_{12}, D_9)} \\
& +A_{12}^+ B_8^+ C_{13}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_8, C_{13}, D_{10})} = & \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_8, C_{13})} \\
& +B_8^+ C_{13}^+ \Phi_{(A_{12}, D_{10})} \\
& +A_{12}^+ B_8^+ C_{13}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_8, C_{14}, D_9)} = & \\
& +A_{12}^+ D_9^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_{12}, D_9)} \\
& +A_{12}^+ B_8^+ C_{14}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_8, C_{14}, D_{10})} = \\
&+ A_{12}^+ D_{10}^+ \Phi_{(B_8, C_{14})} \\
&+ B_8^+ C_{14}^+ \Phi_{(A_{12}, D_{10})} \\
&+ A_{12}^+ B_8^+ C_{14}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_1, D_1)} = \\
&+ C_1^+ \Phi_{(A_{12}, B_9, D_1)} \\
&+ D_1^+ \Phi_{(A_{12}, B_9, C_1)} \\
&+ A_{12}^+ B_9^+ \Phi_{(C_1, D_1)} \\
&+ C_1^+ D_1^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_1^+ \Phi_{(D_1,)} \\
&+ A_{12}^+ B_9^+ D_1^+ \Phi_{(C_1,)} \\
&+ A_{12}^+ B_9^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_1, D_2)} = \\
&+ C_1^+ \Phi_{(A_{12}, B_9, D_2)} \\
&+ D_2^+ \Phi_{(A_{12}, B_9, C_1)} \\
&+ A_{12}^+ B_9^+ \Phi_{(C_1, D_2)} \\
&+ C_1^+ D_2^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_1^+ \Phi_{(D_2,)} \\
&+ A_{12}^+ B_9^+ D_2^+ \Phi_{(C_1,)} \\
&+ A_{12}^+ B_9^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_1, D_3)} = \\
&+ C_1^+ \Phi_{(A_{12}, B_9, D_3)} \\
&+ D_3^+ \Phi_{(A_{12}, B_9, C_1)} \\
&+ A_{12}^+ B_9^+ \Phi_{(C_1, D_3)} \\
&+ C_1^+ D_3^+ \Phi_{(A_{12}, B_9)}
\end{aligned}$$

$$\begin{aligned}
& +A_{12}^+B_9^+C_1^+\Phi_{(D_3,)} \\
& +A_{12}^+B_9^+D_3^+\Phi_{(C_1,)} \\
& +A_{12}^+B_9^+C_1^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_9,C_2,D_1)} = \\
& +C_2^+\Phi_{(A_{12},B_9,D_1)} \\
& +D_1^+\Phi_{(A_{12},B_9,C_2)} \\
& +A_{12}^+B_9^+\Phi_{(C_2,D_1)} \\
& +C_2^+D_1^+\Phi_{(A_{12},B_9)} \\
& +A_{12}^+B_9^+C_2^+\Phi_{(D_1,)} \\
& +A_{12}^+B_9^+D_1^+\Phi_{(C_2,)} \\
& +A_{12}^+B_9^+C_2^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_9,C_2,D_2)} = \\
& +C_2^+\Phi_{(A_{12},B_9,D_2)} \\
& +D_2^+\Phi_{(A_{12},B_9,C_2)} \\
& +A_{12}^+B_9^+\Phi_{(C_2,D_2)} \\
& +C_2^+D_2^+\Phi_{(A_{12},B_9)} \\
& +A_{12}^+B_9^+C_2^+\Phi_{(D_2,)} \\
& +A_{12}^+B_9^+D_2^+\Phi_{(C_2,)} \\
& +A_{12}^+B_9^+C_2^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_9,C_2,D_3)} = \\
& +C_2^+\Phi_{(A_{12},B_9,D_3)} \\
& +D_3^+\Phi_{(A_{12},B_9,C_2)} \\
& +A_{12}^+B_9^+\Phi_{(C_2,D_3)} \\
& +C_2^+D_3^+\Phi_{(A_{12},B_9)} \\
& +A_{12}^+B_9^+C_2^+\Phi_{(D_3,)} \\
& +A_{12}^+B_9^+D_3^+\Phi_{(C_2,)}
\end{aligned}$$

$$+A_{12}^+B_9^+C_2^+D_3^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{12},B_9,C_3,D_1)} = & \\ & +C_3^+\Phi_{(A_{12},B_9,D_1)} \\ & +D_1^+\Phi_{(A_{12},B_9,C_3)} \\ & +A_{12}^+B_9^+\Phi_{(C_3,D_1)} \\ & +C_3^+D_1^+\Phi_{(A_{12},B_9)} \\ & +A_{12}^+B_9^+C_3^+\Phi_{(D_1,)} \\ & +A_{12}^+B_9^+D_1^+\Phi_{(C_3,)} \\ & +A_{12}^+B_9^+C_3^+D_1^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_9,C_3,D_2)} = & \\ & +C_3^+\Phi_{(A_{12},B_9,D_2)} \\ & +D_2^+\Phi_{(A_{12},B_9,C_3)} \\ & +A_{12}^+B_9^+\Phi_{(C_3,D_2)} \\ & +C_3^+D_2^+\Phi_{(A_{12},B_9)} \\ & +A_{12}^+B_9^+C_3^+\Phi_{(D_2,)} \\ & +A_{12}^+B_9^+D_2^+\Phi_{(C_3,)} \\ & +A_{12}^+B_9^+C_3^+D_2^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{12},B_9,C_3,D_3)} = & \\ & +C_3^+\Phi_{(A_{12},B_9,D_3)} \\ & +D_3^+\Phi_{(A_{12},B_9,C_3)} \\ & +A_{12}^+B_9^+\Phi_{(C_3,D_3)} \\ & +C_3^+D_3^+\Phi_{(A_{12},B_9)} \\ & +A_{12}^+B_9^+C_3^+\Phi_{(D_3,)} \\ & +A_{12}^+B_9^+D_3^+\Phi_{(C_3,)} \\ & +A_{12}^+B_9^+C_3^+D_3^+\Phi_{()} \end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_4, D_5)} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_4, D_5)} \\
&+ C_4^+ D_5^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_5, D_4)} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_5, D_4)} \\
&+ C_5^+ D_4^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_6, D_{15})} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_6, D_{15})} \\
&+ C_6^+ D_{15}^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_7, D_{13})} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_7, D_{13})} \\
&+ C_7^+ D_{13}^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_7, D_{14})} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_7, D_{14})} \\
&+ C_7^+ D_{14}^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_8, D_{13})} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_8, D_{13})} \\
&+ C_8^+ D_{13}^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_8, D_{14})} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_8, D_{14})} \\
&+ C_8^+ D_{14}^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_9, D_{11})} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_9, D_{11})} \\
&- A_{12}^+ C_9^+ \Phi_{(B_9, D_{11})} \\
&- B_9^+ D_{11}^+ \Phi_{(A_{12}, C_9)} \\
&+ C_9^+ D_{11}^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_9, D_{12})} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_9, D_{12})} \\
&- A_{12}^+ C_9^+ \Phi_{(B_9, D_{12})} \\
&- B_9^+ D_{12}^+ \Phi_{(A_{12}, C_9)} \\
&+ C_9^+ D_{12}^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_{10}, D_{11})} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_{10}, D_{11})} \\
&- A_{12}^+ C_{10}^+ \Phi_{(B_9, D_{11})} \\
&- B_9^+ D_{11}^+ \Phi_{(A_{12}, C_{10})} \\
&+ C_{10}^+ D_{11}^+ \Phi_{(A_{12}, B_9)} \\
&+ A_{12}^+ B_9^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_9, C_{10}, D_{12})} = \\
&+ A_{12}^+ B_9^+ \Phi_{(C_{10}, D_{12})}
\end{aligned}$$

$$\begin{aligned}
& -A_{12}^+ C_{10}^+ \Phi_{(B_9, D_{12})} \\
& -B_9^+ D_{12}^+ \Phi_{(A_{12}, C_{10})} \\
& +C_{10}^+ D_{12}^+ \Phi_{(A_{12}, B_9)} \\
& +A_{12}^+ B_9^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_9, C_{11}, D_9)} = \\
& +A_{12}^+ B_9^+ \Phi_{(C_{11}, D_9)} \\
& +A_{12}^+ D_9^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_{12}, D_9)} \\
& +C_{11}^+ D_9^+ \Phi_{(A_{12}, B_9)} \\
& +A_{12}^+ B_9^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_9, C_{11}, D_{10})} = \\
& +A_{12}^+ B_9^+ \Phi_{(C_{11}, D_{10})} \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_{12}, D_{10})} \\
& +C_{11}^+ D_{10}^+ \Phi_{(A_{12}, B_9)} \\
& +A_{12}^+ B_9^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_9, C_{12}, D_9)} = \\
& +A_{12}^+ B_9^+ \Phi_{(C_{12}, D_9)} \\
& +A_{12}^+ D_9^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_{12}, D_9)} \\
& +C_{12}^+ D_9^+ \Phi_{(A_{12}, B_9)} \\
& +A_{12}^+ B_9^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_9, C_{12}, D_{10})} = \\
& +A_{12}^+ B_9^+ \Phi_{(C_{12}, D_{10})} \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_9, C_{12})}
\end{aligned}$$

$$\begin{aligned}
& +B_9^+C_{12}^+\Phi_{(A_{12},D_{10})} \\
& +C_{12}^+D_{10}^+\Phi_{(A_{12},B_9)} \\
& +A_{12}^+B_9^+C_{12}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_9,C_{13},D_7)} = \\
& +A_{12}^+B_9^+\Phi_{(C_{13},D_7)} \\
& +C_{13}^+D_7^+\Phi_{(A_{12},B_9)} \\
& +A_{12}^+B_9^+C_{13}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_9,C_{13},D_8)} = \\
& +A_{12}^+B_9^+\Phi_{(C_{13},D_8)} \\
& +C_{13}^+D_8^+\Phi_{(A_{12},B_9)} \\
& +A_{12}^+B_9^+C_{13}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_9,C_{14},D_7)} = \\
& +A_{12}^+B_9^+\Phi_{(C_{14},D_7)} \\
& +C_{14}^+D_7^+\Phi_{(A_{12},B_9)} \\
& +A_{12}^+B_9^+C_{14}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_9,C_{14},D_8)} = \\
& +A_{12}^+B_9^+\Phi_{(C_{14},D_8)} \\
& +C_{14}^+D_8^+\Phi_{(A_{12},B_9)} \\
& +A_{12}^+B_9^+C_{14}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_9,C_{15},D_6)} = \\
& +A_{12}^+B_9^+\Phi_{(C_{15},D_6)} \\
& +C_{15}^+D_6^+\Phi_{(A_{12},B_9)} \\
& +A_{12}^+B_9^+C_{15}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_{10}, C_1, D_1)} = \\
&+C_1^+ \Phi_{(A_{12}, B_{10}, D_1)} \\
&+D_1^+ \Phi_{(A_{12}, B_{10}, C_1)} \\
&+A_{12}^+ B_{10}^+ \Phi_{(C_1, D_1)} \\
&+C_1^+ D_1^+ \Phi_{(A_{12}, B_{10})} \\
&+A_{12}^+ B_{10}^+ C_1^+ \Phi_{(D_1,)} \\
&+A_{12}^+ B_{10}^+ D_1^+ \Phi_{(C_1,)} \\
&+A_{12}^+ B_{10}^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_{10}, C_1, D_2)} = \\
&+C_1^+ \Phi_{(A_{12}, B_{10}, D_2)} \\
&+D_2^+ \Phi_{(A_{12}, B_{10}, C_1)} \\
&+A_{12}^+ B_{10}^+ \Phi_{(C_1, D_2)} \\
&+C_1^+ D_2^+ \Phi_{(A_{12}, B_{10})} \\
&+A_{12}^+ B_{10}^+ C_1^+ \Phi_{(D_2,)} \\
&+A_{12}^+ B_{10}^+ D_2^+ \Phi_{(C_1,)} \\
&+A_{12}^+ B_{10}^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_{10}, C_1, D_3)} = \\
&+C_1^+ \Phi_{(A_{12}, B_{10}, D_3)} \\
&+D_3^+ \Phi_{(A_{12}, B_{10}, C_1)} \\
&+A_{12}^+ B_{10}^+ \Phi_{(C_1, D_3)} \\
&+C_1^+ D_3^+ \Phi_{(A_{12}, B_{10})} \\
&+A_{12}^+ B_{10}^+ C_1^+ \Phi_{(D_3,)} \\
&+A_{12}^+ B_{10}^+ D_3^+ \Phi_{(C_1,)} \\
&+A_{12}^+ B_{10}^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_{10}, C_2, D_1)} = \\
&+C_2^+ \Phi_{(A_{12}, B_{10}, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_{12}, B_{10}, C_2)} \\
& +A_{12}^+ B_{10}^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_{12}, B_{10})} \\
& +A_{12}^+ B_{10}^+ C_2^+ \Phi_{(D_1,)} \\
& +A_{12}^+ B_{10}^+ D_1^+ \Phi_{(C_2,)} \\
& +A_{12}^+ B_{10}^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_{10}, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_{12}, B_{10}, D_2)} \\
& +D_2^+ \Phi_{(A_{12}, B_{10}, C_2)} \\
& +A_{12}^+ B_{10}^+ \Phi_{(C_2, D_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_{12}, B_{10})} \\
& +A_{12}^+ B_{10}^+ C_2^+ \Phi_{(D_2,)} \\
& +A_{12}^+ B_{10}^+ D_2^+ \Phi_{(C_2,)} \\
& +A_{12}^+ B_{10}^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_{10}, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_{12}, B_{10}, D_3)} \\
& +D_3^+ \Phi_{(A_{12}, B_{10}, C_2)} \\
& +A_{12}^+ B_{10}^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_{12}, B_{10})} \\
& +A_{12}^+ B_{10}^+ C_2^+ \Phi_{(D_3,)} \\
& +A_{12}^+ B_{10}^+ D_3^+ \Phi_{(C_2,)} \\
& +A_{12}^+ B_{10}^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12}, B_{10}, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_{12}, B_{10}, D_1)} \\
& +D_1^+ \Phi_{(A_{12}, B_{10}, C_3)} \\
& +A_{12}^+ B_{10}^+ \Phi_{(C_3, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +C_3^+ D_1^+ \Phi_{(A_{12}, B_{10})} \\
& +A_{12}^+ B_{10}^+ C_3^+ \Phi_{(D_1,)} \\
& +A_{12}^+ B_{10}^+ D_1^+ \Phi_{(C_3,)} \\
& +A_{12}^+ B_{10}^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{10}, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_{12}, B_{10}, D_2)} \\
& +D_2^+ \Phi_{(A_{12}, B_{10}, C_3)} \\
& +A_{12}^+ B_{10}^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_{12}, B_{10})} \\
& +A_{12}^+ B_{10}^+ C_3^+ \Phi_{(D_2,)} \\
& +A_{12}^+ B_{10}^+ D_2^+ \Phi_{(C_3,)} \\
& +A_{12}^+ B_{10}^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{10}, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_{12}, B_{10}, D_3)} \\
& +D_3^+ \Phi_{(A_{12}, B_{10}, C_3)} \\
& +A_{12}^+ B_{10}^+ \Phi_{(C_3, D_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_{12}, B_{10})} \\
& +A_{12}^+ B_{10}^+ C_3^+ \Phi_{(D_3,)} \\
& +A_{12}^+ B_{10}^+ D_3^+ \Phi_{(C_3,)} \\
& +A_{12}^+ B_{10}^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{10}, C_4, D_5)} = \\
& +A_{12}^+ B_{10}^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_{12}, B_{10})} \\
& +A_{12}^+ B_{10}^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{12}, B_{10}, C_5, D_4)} =$$

$$\begin{aligned}
& +A_{12}^+B_{10}^+\Phi_{(C_5,D_4)} \\
& +C_5^+D_4^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_5^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{10},C_6,D_{15})} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_6,D_{15})} \\
& +C_6^+D_{15}^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_6^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{10},C_7,D_{13})} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_7,D_{13})} \\
& +C_7^+D_{13}^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_7^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{10},C_7,D_{14})} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_7,D_{14})} \\
& +C_7^+D_{14}^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_7^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{10},C_8,D_{13})} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_8,D_{13})} \\
& +C_8^+D_{13}^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_8^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{10},C_8,D_{14})} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_8,D_{14})} \\
& +C_8^+D_{14}^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_8^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_{10}, C_9, D_{11})} = \\
&+A_{12}^+ B_{10}^+ \Phi_{(C_9, D_{11})} \\
&-A_{12}^+ C_9^+ \Phi_{(B_{10}, D_{11})} \\
&-B_{10}^+ D_{11}^+ \Phi_{(A_{12}, C_9)} \\
&+C_9^+ D_{11}^+ \Phi_{(A_{12}, B_{10})} \\
&+A_{12}^+ B_{10}^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_{10}, C_9, D_{12})} = \\
&+A_{12}^+ B_{10}^+ \Phi_{(C_9, D_{12})} \\
&-A_{12}^+ C_9^+ \Phi_{(B_{10}, D_{12})} \\
&-B_{10}^+ D_{12}^+ \Phi_{(A_{12}, C_9)} \\
&+C_9^+ D_{12}^+ \Phi_{(A_{12}, B_{10})} \\
&+A_{12}^+ B_{10}^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_{10}, C_{10}, D_{11})} = \\
&+A_{12}^+ B_{10}^+ \Phi_{(C_{10}, D_{11})} \\
&-A_{12}^+ C_{10}^+ \Phi_{(B_{10}, D_{11})} \\
&-B_{10}^+ D_{11}^+ \Phi_{(A_{12}, C_{10})} \\
&+C_{10}^+ D_{11}^+ \Phi_{(A_{12}, B_{10})} \\
&+A_{12}^+ B_{10}^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{12}, B_{10}, C_{10}, D_{12})} = \\
&+A_{12}^+ B_{10}^+ \Phi_{(C_{10}, D_{12})} \\
&-A_{12}^+ C_{10}^+ \Phi_{(B_{10}, D_{12})} \\
&-B_{10}^+ D_{12}^+ \Phi_{(A_{12}, C_{10})} \\
&+C_{10}^+ D_{12}^+ \Phi_{(A_{12}, B_{10})} \\
&+A_{12}^+ B_{10}^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{12}, B_{10}, C_{11}, D_9)} =$$

$$\begin{aligned}
& +A_{12}^+B_{10}^+\Phi_{(C_{11},D_9)} \\
& +A_{12}^+D_9^+\Phi_{(B_{10},C_{11})} \\
& +B_{10}^+C_{11}^+\Phi_{(A_{12},D_9)} \\
& +C_{11}^+D_9^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_{11}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{10},C_{11},D_{10})} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_{11},D_{10})} \\
& +A_{12}^+D_{10}^+\Phi_{(B_{10},C_{11})} \\
& +B_{10}^+C_{11}^+\Phi_{(A_{12},D_{10})} \\
& +C_{11}^+D_{10}^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_{11}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{10},C_{12},D_9)} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_{12},D_9)} \\
& +A_{12}^+D_9^+\Phi_{(B_{10},C_{12})} \\
& +B_{10}^+C_{12}^+\Phi_{(A_{12},D_9)} \\
& +C_{12}^+D_9^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_{12}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{10},C_{12},D_{10})} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_{12},D_{10})} \\
& +A_{12}^+D_{10}^+\Phi_{(B_{10},C_{12})} \\
& +B_{10}^+C_{12}^+\Phi_{(A_{12},D_{10})} \\
& +C_{12}^+D_{10}^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_{12}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{10},C_{13},D_7)} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_{13},D_7)}
\end{aligned}$$

$$\begin{aligned}
& +C_{13}^+D_7^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_{13}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{10},C_{13},D_8)} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_{13},D_8)} \\
& +C_{13}^+D_8^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_{13}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{10},C_{14},D_7)} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_{14},D_7)} \\
& +C_{14}^+D_7^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_{14}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{10},C_{14},D_8)} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_{14},D_8)} \\
& +C_{14}^+D_8^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_{14}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{10},C_{15},D_6)} = \\
& +A_{12}^+B_{10}^+\Phi_{(C_{15},D_6)} \\
& +C_{15}^+D_6^+\Phi_{(A_{12},B_{10})} \\
& +A_{12}^+B_{10}^+C_{15}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{11},C_5,D_6)} = \\
& +A_{12}^+B_{11}^+C_5^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{11},C_6,D_5)} = \\
& +A_{12}^+B_{11}^+C_6^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{11}, C_9, D_9)} = & \\
& -A_{12}^+ C_9^+ \Phi_{(B_{11}, D_9)} \\
& +A_{12}^+ D_9^+ \Phi_{(B_{11}, C_9)} \\
& +B_{11}^+ C_9^+ \Phi_{(A_{12}, D_9)} \\
& -B_{11}^+ D_9^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_{11}^+ C_9^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{11}, C_9, D_{10})} = & \\
& -A_{12}^+ C_9^+ \Phi_{(B_{11}, D_{10})} \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_{11}, C_9)} \\
& +B_{11}^+ C_9^+ \Phi_{(A_{12}, D_{10})} \\
& -B_{11}^+ D_{10}^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_{11}^+ C_9^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{11}, C_{10}, D_9)} = & \\
& -A_{12}^+ C_{10}^+ \Phi_{(B_{11}, D_9)} \\
& +A_{12}^+ D_9^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_{12}, D_9)} \\
& -B_{11}^+ D_9^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_{11}^+ C_{10}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{11}, C_{10}, D_{10})} = & \\
& -A_{12}^+ C_{10}^+ \Phi_{(B_{11}, D_{10})} \\
& +A_{12}^+ D_{10}^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_{12}, D_{10})} \\
& -B_{11}^+ D_{10}^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_{11}^+ C_{10}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{12}, B_{12}, C_5, D_6)} =$$

$$+A_{12}^+B_{12}^+C_5^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{12},C_6,D_5)} =$$

$$+A_{12}^+B_{12}^+C_6^+D_5^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{12},C_9,D_9)} =$$

$$-A_{12}^+C_9^+\Phi_{(B_{12},D_9)}$$

$$+A_{12}^+D_9^+\Phi_{(B_{12},C_9)}$$

$$+B_{12}^+C_9^+\Phi_{(A_{12},D_9)}$$

$$-B_{12}^+D_9^+\Phi_{(A_{12},C_9)}$$

$$+A_{12}^+B_{12}^+C_9^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{12},C_9,D_{10})} =$$

$$-A_{12}^+C_9^+\Phi_{(B_{12},D_{10})}$$

$$+A_{12}^+D_{10}^+\Phi_{(B_{12},C_9)}$$

$$+B_{12}^+C_9^+\Phi_{(A_{12},D_{10})}$$

$$-B_{12}^+D_{10}^+\Phi_{(A_{12},C_9)}$$

$$+A_{12}^+B_{12}^+C_9^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{12},C_{10},D_9)} =$$

$$-A_{12}^+C_{10}^+\Phi_{(B_{12},D_9)}$$

$$+A_{12}^+D_9^+\Phi_{(B_{12},C_{10})}$$

$$+B_{12}^+C_{10}^+\Phi_{(A_{12},D_9)}$$

$$-B_{12}^+D_9^+\Phi_{(A_{12},C_{10})}$$

$$+A_{12}^+B_{12}^+C_{10}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{12},B_{12},C_{10},D_{10})} =$$

$$-A_{12}^+C_{10}^+\Phi_{(B_{12},D_{10})}$$

$$+A_{12}^+D_{10}^+\Phi_{(B_{12},C_{10})}$$

$$\begin{aligned}
& +B_{12}^+C_{10}^+\Phi_{(A_{12},D_{10})} \\
& -B_{12}^+D_{10}^+\Phi_{(A_{12},C_{10})} \\
& +A_{12}^+B_{12}^+C_{10}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{13},C_1,D_6)} = \\
& +C_1^+\Phi_{(A_{12},B_{13},D_6)} \\
& +A_{12}^+B_{13}^+D_6^+\Phi_{(C_1,)} \\
& +A_{12}^+B_{13}^+C_1^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{13},C_2,D_6)} = \\
& +C_2^+\Phi_{(A_{12},B_{13},D_6)} \\
& +A_{12}^+B_{13}^+D_6^+\Phi_{(C_2,)} \\
& +A_{12}^+B_{13}^+C_2^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{13},C_3,D_6)} = \\
& +C_3^+\Phi_{(A_{12},B_{13},D_6)} \\
& +A_{12}^+B_{13}^+D_6^+\Phi_{(C_3,)} \\
& +A_{12}^+B_{13}^+C_3^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{13},C_6,D_1)} = \\
& +D_1^+\Phi_{(A_{12},B_{13},C_6)} \\
& +A_{12}^+B_{13}^+C_6^+\Phi_{(D_1,)} \\
& +A_{12}^+B_{13}^+C_6^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{13},C_6,D_2)} = \\
& +D_2^+\Phi_{(A_{12},B_{13},C_6)} \\
& +A_{12}^+B_{13}^+C_6^+\Phi_{(D_2,)} \\
& +A_{12}^+B_{13}^+C_6^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{13}, C_6, D_3)} = & \\
& + D_3^+ \Phi_{(A_{12}, B_{13}, C_6)} \\
& + A_{12}^+ B_{13}^+ C_6^+ \Phi_{(D_3,)} \\
& + A_{12}^+ B_{13}^+ C_6^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{13}, C_7, D_9)} = & \\
& + A_{12}^+ D_9^+ \Phi_{(B_{13}, C_7)} \\
& + B_{13}^+ C_7^+ \Phi_{(A_{12}, D_9)} \\
& + A_{12}^+ B_{13}^+ C_7^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{13}, C_7, D_{10})} = & \\
& + A_{12}^+ D_{10}^+ \Phi_{(B_{13}, C_7)} \\
& + B_{13}^+ C_7^+ \Phi_{(A_{12}, D_{10})} \\
& + A_{12}^+ B_{13}^+ C_7^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{13}, C_8, D_9)} = & \\
& + A_{12}^+ D_9^+ \Phi_{(B_{13}, C_8)} \\
& + B_{13}^+ C_8^+ \Phi_{(A_{12}, D_9)} \\
& + A_{12}^+ B_{13}^+ C_8^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{13}, C_8, D_{10})} = & \\
& + A_{12}^+ D_{10}^+ \Phi_{(B_{13}, C_8)} \\
& + B_{13}^+ C_8^+ \Phi_{(A_{12}, D_{10})} \\
& + A_{12}^+ B_{13}^+ C_8^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{13}, C_9, D_7)} = & \\
& - A_{12}^+ C_9^+ \Phi_{(B_{13}, D_7)} \\
& - B_{13}^+ D_7^+ \Phi_{(A_{12}, C_9)} \\
& + A_{12}^+ B_{13}^+ C_9^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{13}, C_9, D_8)} = & \\
& -A_{12}^+ C_9^+ \Phi_{(B_{13}, D_8)} \\
& -B_{13}^+ D_8^+ \Phi_{(A_{12}, C_9)} \\
& +A_{12}^+ B_{13}^+ C_9^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{13}, C_{10}, D_7)} = & \\
& -A_{12}^+ C_{10}^+ \Phi_{(B_{13}, D_7)} \\
& -B_{13}^+ D_7^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_{13}^+ C_{10}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{13}, C_{10}, D_8)} = & \\
& -A_{12}^+ C_{10}^+ \Phi_{(B_{13}, D_8)} \\
& -B_{13}^+ D_8^+ \Phi_{(A_{12}, C_{10})} \\
& +A_{12}^+ B_{13}^+ C_{10}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{14}, C_1, D_6)} = & \\
& +C_1^+ \Phi_{(A_{12}, B_{14}, D_6)} \\
& +A_{12}^+ B_{14}^+ D_6^+ \Phi_{(C_1,)} \\
& +A_{12}^+ B_{14}^+ C_1^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{14}, C_2, D_6)} = & \\
& +C_2^+ \Phi_{(A_{12}, B_{14}, D_6)} \\
& +A_{12}^+ B_{14}^+ D_6^+ \Phi_{(C_2,)} \\
& +A_{12}^+ B_{14}^+ C_2^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12}, B_{14}, C_3, D_6)} = & \\
& +C_3^+ \Phi_{(A_{12}, B_{14}, D_6)} \\
& +A_{12}^+ B_{14}^+ D_6^+ \Phi_{(C_3,)}
\end{aligned}$$

$$+A_{12}^+B_{14}^+C_3^+D_6^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_{14},C_6,D_1)} =$$

$$+D_1^+\Phi_{(A_{12},B_{14},C_6)} \\$$

$$+A_{12}^+B_{14}^+C_6^+\Phi_{(D_1,)} \\$$

$$+A_{12}^+B_{14}^+C_6^+D_1^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_{14},C_6,D_2)} =$$

$$+D_2^+\Phi_{(A_{12},B_{14},C_6)} \\$$

$$+A_{12}^+B_{14}^+C_6^+\Phi_{(D_2,)} \\$$

$$+A_{12}^+B_{14}^+C_6^+D_2^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_{14},C_6,D_3)} =$$

$$+D_3^+\Phi_{(A_{12},B_{14},C_6)} \\$$

$$+A_{12}^+B_{14}^+C_6^+\Phi_{(D_3,)} \\$$

$$+A_{12}^+B_{14}^+C_6^+D_3^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_{14},C_7,D_9)} =$$

$$+A_{12}^+D_9^+\Phi_{(B_{14},C_7)} \\$$

$$+B_{14}^+C_7^+\Phi_{(A_{12},D_9)} \\$$

$$+A_{12}^+B_{14}^+C_7^+D_9^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_{14},C_7,D_{10})} =$$

$$+A_{12}^+D_{10}^+\Phi_{(B_{14},C_7)} \\$$

$$+B_{14}^+C_7^+\Phi_{(A_{12},D_{10})} \\$$

$$+A_{12}^+B_{14}^+C_7^+D_{10}^+\Phi_{()} \\$$

$$\Phi_{(A_{12},B_{14},C_8,D_9)} =$$

$$+A_{12}^+D_9^+\Phi_{(B_{14},C_8)} \\$$

$$\begin{aligned}
& +B_{14}^+C_8^+\Phi_{(A_{12},D_9)} \\
& +A_{12}^+B_{14}^+C_8^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{14},C_8,D_{10})} = \\
& +A_{12}^+D_{10}^+\Phi_{(B_{14},C_8)} \\
& +B_{14}^+C_8^+\Phi_{(A_{12},D_{10})} \\
& +A_{12}^+B_{14}^+C_8^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{14},C_9,D_7)} = \\
& -A_{12}^+C_9^+\Phi_{(B_{14},D_7)} \\
& -B_{14}^+D_7^+\Phi_{(A_{12},C_9)} \\
& +A_{12}^+B_{14}^+C_9^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{14},C_9,D_8)} = \\
& -A_{12}^+C_9^+\Phi_{(B_{14},D_8)} \\
& -B_{14}^+D_8^+\Phi_{(A_{12},C_9)} \\
& +A_{12}^+B_{14}^+C_9^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{14},C_{10},D_7)} = \\
& -A_{12}^+C_{10}^+\Phi_{(B_{14},D_7)} \\
& -B_{14}^+D_7^+\Phi_{(A_{12},C_{10})} \\
& +A_{12}^+B_{14}^+C_{10}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{12},B_{14},C_{10},D_8)} = \\
& -A_{12}^+C_{10}^+\Phi_{(B_{14},D_8)} \\
& -B_{14}^+D_8^+\Phi_{(A_{12},C_{10})} \\
& +A_{12}^+B_{14}^+C_{10}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{12},B_{15},C_6,D_9)} =$$

$$\begin{aligned}
& +A_{12}^+D_9^+\Phi_{(B_{15},C_6)} \\
& +B_{15}^+C_6^+\Phi_{(A_{12},D_9)} \\
& +A_{12}^+B_{15}^+C_6^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{15},C_6,D_{10})} = \\
& +A_{12}^+D_{10}^+\Phi_{(B_{15},C_6)} \\
& +B_{15}^+C_6^+\Phi_{(A_{12},D_{10})} \\
& +A_{12}^+B_{15}^+C_6^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{15},C_9,D_6)} = \\
& +A_{12}^+C_9^+\Phi_{(B_{15},D_6)} \\
& +B_{15}^+D_6^+\Phi_{(A_{12},C_9)} \\
& +A_{12}^+B_{15}^+C_9^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{12},B_{15},C_{10},D_6)} = \\
& +A_{12}^+C_{10}^+\Phi_{(B_{15},D_6)} \\
& +B_{15}^+D_6^+\Phi_{(A_{12},C_{10})} \\
& +A_{12}^+B_{15}^+C_{10}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_1,C_1,D_7)} = \\
& +B_1^+\Phi_{(A_{13},C_1,D_7)} \\
& +C_1^+\Phi_{(A_{13},B_1,D_7)} \\
& +A_{13}^+D_7^+\Phi_{(B_1,C_1)} \\
& +B_1^+C_1^+\Phi_{(A_{13},D_7)} \\
& +A_{13}^+B_1^+D_7^+\Phi_{(C_1,)} \\
& +A_{13}^+C_1^+D_7^+\Phi_{(B_1,)} \\
& +A_{13}^+B_1^+C_1^+D_7^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{13},B_1,C_1,D_8)} =$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_{13}, C_1, D_8)} \\
& +C_1^+ \Phi_{(A_{13}, B_1, D_8)} \\
& +A_{13}^+ D_8^+ \Phi_{(B_1, C_1)} \\
& +B_1^+ C_1^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_1^+ D_8^+ \Phi_{(C_1,)} \\
& +A_{13}^+ C_1^+ D_8^+ \Phi_{(B_1,)} \\
& +A_{13}^+ B_1^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_1, C_2, D_7)} = \\
& +B_1^+ \Phi_{(A_{13}, C_2, D_7)} \\
& +C_2^+ \Phi_{(A_{13}, B_1, D_7)} \\
& +A_{13}^+ D_7^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_1^+ D_7^+ \Phi_{(C_2,)} \\
& +A_{13}^+ C_2^+ D_7^+ \Phi_{(B_1,)} \\
& +A_{13}^+ B_1^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_1, C_2, D_8)} = \\
& +B_1^+ \Phi_{(A_{13}, C_2, D_8)} \\
& +C_2^+ \Phi_{(A_{13}, B_1, D_8)} \\
& +A_{13}^+ D_8^+ \Phi_{(B_1, C_2)} \\
& +B_1^+ C_2^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_1^+ D_8^+ \Phi_{(C_2,)} \\
& +A_{13}^+ C_2^+ D_8^+ \Phi_{(B_1,)} \\
& +A_{13}^+ B_1^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_1, C_3, D_7)} = \\
& +B_1^+ \Phi_{(A_{13}, C_3, D_7)} \\
& +C_3^+ \Phi_{(A_{13}, B_1, D_7)}
\end{aligned}$$

$$\begin{aligned}
& +A_{13}^+ D_7^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_1^+ D_7^+ \Phi_{(C_3,)} \\
& +A_{13}^+ C_3^+ D_7^+ \Phi_{(B_1,)} \\
& +A_{13}^+ B_1^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_1, C_3, D_8)} = \\
& +B_1^+ \Phi_{(A_{13}, C_3, D_8)} \\
& +C_3^+ \Phi_{(A_{13}, B_1, D_8)} \\
& +A_{13}^+ D_8^+ \Phi_{(B_1, C_3)} \\
& +B_1^+ C_3^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_1^+ D_8^+ \Phi_{(C_3,)} \\
& +A_{13}^+ C_3^+ D_8^+ \Phi_{(B_1,)} \\
& +A_{13}^+ B_1^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_1, C_4, D_9)} = \\
& +B_1^+ \Phi_{(A_{13}, C_4, D_9)} \\
& +A_{13}^+ C_4^+ D_9^+ \Phi_{(B_1,)} \\
& +A_{13}^+ B_1^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_1, C_4, D_{10})} = \\
& +B_1^+ \Phi_{(A_{13}, C_4, D_{10})} \\
& +A_{13}^+ C_4^+ D_{10}^+ \Phi_{(B_1,)} \\
& +A_{13}^+ B_1^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_1, C_6, D_{11})} = \\
& +B_1^+ \Phi_{(A_{13}, C_6, D_{11})} \\
& +A_{13}^+ C_6^+ D_{11}^+ \Phi_{(B_1,)} \\
& +A_{13}^+ B_1^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_1, C_6, D_{12})} = \\
&+ B_1^+ \Phi_{(A_{13}, C_6, D_{12})} \\
&+ A_{13}^+ C_6^+ D_{12}^+ \Phi_{(B_1,)} \\
&+ A_{13}^+ B_1^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_1, C_7, D_1)} = \\
&+ B_1^+ \Phi_{(A_{13}, C_7, D_1)} \\
&+ D_1^+ \Phi_{(A_{13}, B_1, C_7)} \\
&+ A_{13}^+ C_7^+ \Phi_{(B_1, D_1)} \\
&+ B_1^+ D_1^+ \Phi_{(A_{13}, C_7)} \\
&+ A_{13}^+ B_1^+ C_7^+ \Phi_{(D_1,)} \\
&+ A_{13}^+ C_7^+ D_1^+ \Phi_{(B_1,)} \\
&+ A_{13}^+ B_1^+ C_7^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_1, C_7, D_2)} = \\
&+ B_1^+ \Phi_{(A_{13}, C_7, D_2)} \\
&+ D_2^+ \Phi_{(A_{13}, B_1, C_7)} \\
&+ A_{13}^+ C_7^+ \Phi_{(B_1, D_2)} \\
&+ B_1^+ D_2^+ \Phi_{(A_{13}, C_7)} \\
&+ A_{13}^+ B_1^+ C_7^+ \Phi_{(D_2,)} \\
&+ A_{13}^+ C_7^+ D_2^+ \Phi_{(B_1,)} \\
&+ A_{13}^+ B_1^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_1, C_7, D_3)} = \\
&+ B_1^+ \Phi_{(A_{13}, C_7, D_3)} \\
&+ D_3^+ \Phi_{(A_{13}, B_1, C_7)} \\
&+ A_{13}^+ C_7^+ \Phi_{(B_1, D_3)} \\
&+ B_1^+ D_3^+ \Phi_{(A_{13}, C_7)}
\end{aligned}$$

$$\begin{aligned}
& +A_{13}^+B_1^+C_7^+\Phi_{(D_3,)} \\
& +A_{13}^+C_7^+D_3^+\Phi_{(B_1,)} \\
& +A_{13}^+B_1^+C_7^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_1,C_8,D_1)} = \\
& +B_1^+\Phi_{(A_{13},C_8,D_1)} \\
& +D_1^+\Phi_{(A_{13},B_1,C_8)} \\
& +A_{13}^+C_8^+\Phi_{(B_1,D_1)} \\
& +B_1^+D_1^+\Phi_{(A_{13},C_8)} \\
& +A_{13}^+B_1^+C_8^+\Phi_{(D_1,)} \\
& +A_{13}^+C_8^+D_1^+\Phi_{(B_1,)} \\
& +A_{13}^+B_1^+C_8^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_1,C_8,D_2)} = \\
& +B_1^+\Phi_{(A_{13},C_8,D_2)} \\
& +D_2^+\Phi_{(A_{13},B_1,C_8)} \\
& +A_{13}^+C_8^+\Phi_{(B_1,D_2)} \\
& +B_1^+D_2^+\Phi_{(A_{13},C_8)} \\
& +A_{13}^+B_1^+C_8^+\Phi_{(D_2,)} \\
& +A_{13}^+C_8^+D_2^+\Phi_{(B_1,)} \\
& +A_{13}^+B_1^+C_8^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_1,C_8,D_3)} = \\
& +B_1^+\Phi_{(A_{13},C_8,D_3)} \\
& +D_3^+\Phi_{(A_{13},B_1,C_8)} \\
& +A_{13}^+C_8^+\Phi_{(B_1,D_3)} \\
& +B_1^+D_3^+\Phi_{(A_{13},C_8)} \\
& +A_{13}^+B_1^+C_8^+\Phi_{(D_3,)} \\
& +A_{13}^+C_8^+D_3^+\Phi_{(B_1,)}
\end{aligned}$$

$$+A_{13}^+B_1^+C_8^+D_3^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{13},B_1,C_9,D_4)} = \\ +B_1^+\Phi_{(A_{13},C_9,D_4)} \\ +A_{13}^+C_9^+D_4^+\Phi_{(B_1,)} \\ +A_{13}^+B_1^+C_9^+D_4^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_1,C_{10},D_4)} = \\ +B_1^+\Phi_{(A_{13},C_{10},D_4)} \\ +A_{13}^+C_{10}^+D_4^+\Phi_{(B_1,)} \\ +A_{13}^+B_1^+C_{10}^+D_4^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_1,C_{11},D_6)} = \\ +B_1^+\Phi_{(A_{13},C_{11},D_6)} \\ +A_{13}^+C_{11}^+D_6^+\Phi_{(B_1,)} \\ +A_{13}^+B_1^+C_{11}^+D_6^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_1,C_{12},D_6)} = \\ +B_1^+\Phi_{(A_{13},C_{12},D_6)} \\ +A_{13}^+C_{12}^+D_6^+\Phi_{(B_1,)} \\ +A_{13}^+B_1^+C_{12}^+D_6^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_2,C_1,D_7)} = \\ +B_2^+\Phi_{(A_{13},C_1,D_7)} \\ +C_1^+\Phi_{(A_{13},B_2,D_7)} \\ +A_{13}^+D_7^+\Phi_{(B_2,C_1)} \\ +B_2^+C_1^+\Phi_{(A_{13},D_7)} \\ +A_{13}^+B_2^+D_7^+\Phi_{(C_1,)} \\ +A_{13}^+C_1^+D_7^+\Phi_{(B_2,)} \end{aligned}$$

$$+A_{13}^+B_2^+C_1^+D_7^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{13},B_2,C_1,D_8)} = & \\ & +B_2^+\Phi_{(A_{13},C_1,D_8)} \\ & +C_1^+\Phi_{(A_{13},B_2,D_8)} \\ & +A_{13}^+D_8^+\Phi_{(B_2,C_1)} \\ & +B_2^+C_1^+\Phi_{(A_{13},D_8)} \\ & +A_{13}^+B_2^+D_8^+\Phi_{(C_1,)} \\ & +A_{13}^+C_1^+D_8^+\Phi_{(B_2,)} \\ & +A_{13}^+B_2^+C_1^+D_8^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_2,C_2,D_7)} = & \\ & +B_2^+\Phi_{(A_{13},C_2,D_7)} \\ & +C_2^+\Phi_{(A_{13},B_2,D_7)} \\ & +A_{13}^+D_7^+\Phi_{(B_2,C_2)} \\ & +B_2^+C_2^+\Phi_{(A_{13},D_7)} \\ & +A_{13}^+B_2^+D_7^+\Phi_{(C_2,)} \\ & +A_{13}^+C_2^+D_7^+\Phi_{(B_2,)} \\ & +A_{13}^+B_2^+C_2^+D_7^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_2,C_2,D_8)} = & \\ & +B_2^+\Phi_{(A_{13},C_2,D_8)} \\ & +C_2^+\Phi_{(A_{13},B_2,D_8)} \\ & +A_{13}^+D_8^+\Phi_{(B_2,C_2)} \\ & +B_2^+C_2^+\Phi_{(A_{13},D_8)} \\ & +A_{13}^+B_2^+D_8^+\Phi_{(C_2,)} \\ & +A_{13}^+C_2^+D_8^+\Phi_{(B_2,)} \\ & +A_{13}^+B_2^+C_2^+D_8^+\Phi_{()} \end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_2,C_3,D_7)} = \\
&+B_2^+\Phi_{(A_{13},C_3,D_7)} \\
&+C_3^+\Phi_{(A_{13},B_2,D_7)} \\
&+A_{13}^+D_7^+\Phi_{(B_2,C_3)} \\
&+B_2^+C_3^+\Phi_{(A_{13},D_7)} \\
&+A_{13}^+B_2^+D_7^+\Phi_{(C_3,)} \\
&+A_{13}^+C_3^+D_7^+\Phi_{(B_2,)} \\
&+A_{13}^+B_2^+C_3^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_2,C_3,D_8)} = \\
&+B_2^+\Phi_{(A_{13},C_3,D_8)} \\
&+C_3^+\Phi_{(A_{13},B_2,D_8)} \\
&+A_{13}^+D_8^+\Phi_{(B_2,C_3)} \\
&+B_2^+C_3^+\Phi_{(A_{13},D_8)} \\
&+A_{13}^+B_2^+D_8^+\Phi_{(C_3,)} \\
&+A_{13}^+C_3^+D_8^+\Phi_{(B_2,)} \\
&+A_{13}^+B_2^+C_3^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_2,C_4,D_9)} = \\
&+B_2^+\Phi_{(A_{13},C_4,D_9)} \\
&+A_{13}^+C_4^+D_9^+\Phi_{(B_2,)} \\
&+A_{13}^+B_2^+C_4^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_2,C_4,D_{10})} = \\
&+B_2^+\Phi_{(A_{13},C_4,D_{10})} \\
&+A_{13}^+C_4^+D_{10}^+\Phi_{(B_2,)} \\
&+A_{13}^+B_2^+C_4^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{13},B_2,C_6,D_{11})} =$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_{13}, C_6, D_{11})} \\
& +A_{13}^+ C_6^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_6, D_{12})} = \\
& +B_2^+ \Phi_{(A_{13}, C_6, D_{12})} \\
& +A_{13}^+ C_6^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_7, D_1)} = \\
& +B_2^+ \Phi_{(A_{13}, C_7, D_1)} \\
& +D_1^+ \Phi_{(A_{13}, B_2, C_7)} \\
& +A_{13}^+ C_7^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_{13}, C_7)} \\
& +A_{13}^+ B_2^+ C_7^+ \Phi_{(D_1,)} \\
& +A_{13}^+ C_7^+ D_1^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_7^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_7, D_2)} = \\
& +B_2^+ \Phi_{(A_{13}, C_7, D_2)} \\
& +D_2^+ \Phi_{(A_{13}, B_2, C_7)} \\
& +A_{13}^+ C_7^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_{13}, C_7)} \\
& +A_{13}^+ B_2^+ C_7^+ \Phi_{(D_2,)} \\
& +A_{13}^+ C_7^+ D_2^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_7, D_3)} = \\
& +B_2^+ \Phi_{(A_{13}, C_7, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +D_3^+ \Phi_{(A_{13}, B_2, C_7)} \\
& +A_{13}^+ C_7^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_{13}, C_7)} \\
& +A_{13}^+ B_2^+ C_7^+ \Phi_{(D_3,)} \\
& +A_{13}^+ C_7^+ D_3^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_8, D_1)} = \\
& +B_2^+ \Phi_{(A_{13}, C_8, D_1)} \\
& +D_1^+ \Phi_{(A_{13}, B_2, C_8)} \\
& +A_{13}^+ C_8^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_2^+ C_8^+ \Phi_{(D_1,)} \\
& +A_{13}^+ C_8^+ D_1^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_8, D_2)} = \\
& +B_2^+ \Phi_{(A_{13}, C_8, D_2)} \\
& +D_2^+ \Phi_{(A_{13}, B_2, C_8)} \\
& +A_{13}^+ C_8^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_2^+ C_8^+ \Phi_{(D_2,)} \\
& +A_{13}^+ C_8^+ D_2^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_8, D_3)} = \\
& +B_2^+ \Phi_{(A_{13}, C_8, D_3)} \\
& +D_3^+ \Phi_{(A_{13}, B_2, C_8)} \\
& +A_{13}^+ C_8^+ \Phi_{(B_2, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ D_3^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_2^+ C_8^+ \Phi_{(D_3,)} \\
& +A_{13}^+ C_8^+ D_3^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_9, D_4)} = \\
& +B_2^+ \Phi_{(A_{13}, C_9, D_4)} \\
& +A_{13}^+ C_9^+ D_4^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_{10}, D_4)} = \\
& +B_2^+ \Phi_{(A_{13}, C_{10}, D_4)} \\
& +A_{13}^+ C_{10}^+ D_4^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_{10}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_{11}, D_6)} = \\
& +B_2^+ \Phi_{(A_{13}, C_{11}, D_6)} \\
& +A_{13}^+ C_{11}^+ D_6^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_{11}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_2, C_{12}, D_6)} = \\
& +B_2^+ \Phi_{(A_{13}, C_{12}, D_6)} \\
& +A_{13}^+ C_{12}^+ D_6^+ \Phi_{(B_2,)} \\
& +A_{13}^+ B_2^+ C_{12}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_1, D_7)} = \\
& +B_3^+ \Phi_{(A_{13}, C_1, D_7)} \\
& +C_1^+ \Phi_{(A_{13}, B_3, D_7)} \\
& +A_{13}^+ D_7^+ \Phi_{(B_3, C_1)}
\end{aligned}$$

$$\begin{aligned}
& +B_3^+ C_1^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_3^+ D_7^+ \Phi_{(C_1,)} \\
& +A_{13}^+ C_1^+ D_7^+ \Phi_{(B_3,)} \\
& +A_{13}^+ B_3^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_1, D_8)} = \\
& +B_3^+ \Phi_{(A_{13}, C_1, D_8)} \\
& +C_1^+ \Phi_{(A_{13}, B_3, D_8)} \\
& +A_{13}^+ D_8^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_3^+ D_8^+ \Phi_{(C_1,)} \\
& +A_{13}^+ C_1^+ D_8^+ \Phi_{(B_3,)} \\
& +A_{13}^+ B_3^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_2, D_7)} = \\
& +B_3^+ \Phi_{(A_{13}, C_2, D_7)} \\
& +C_2^+ \Phi_{(A_{13}, B_3, D_7)} \\
& +A_{13}^+ D_7^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_3^+ D_7^+ \Phi_{(C_2,)} \\
& +A_{13}^+ C_2^+ D_7^+ \Phi_{(B_3,)} \\
& +A_{13}^+ B_3^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_2, D_8)} = \\
& +B_3^+ \Phi_{(A_{13}, C_2, D_8)} \\
& +C_2^+ \Phi_{(A_{13}, B_3, D_8)} \\
& +A_{13}^+ D_8^+ \Phi_{(B_3, C_2)} \\
& +B_3^+ C_2^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_3^+ D_8^+ \Phi_{(C_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_{13}^+C_2^+D_8^+\Phi_{(B_3,)} \\
& +A_{13}^+B_3^+C_2^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_3,C_3,D_7)} = \\
& +B_3^+\Phi_{(A_{13},C_3,D_7)} \\
& +C_3^+\Phi_{(A_{13},B_3,D_7)} \\
& +A_{13}^+D_7^+\Phi_{(B_3,C_3)} \\
& +B_3^+C_3^+\Phi_{(A_{13},D_7)} \\
& +A_{13}^+B_3^+D_7^+\Phi_{(C_3,)} \\
& +A_{13}^+C_3^+D_7^+\Phi_{(B_3,)} \\
& +A_{13}^+B_3^+C_3^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_3,C_3,D_8)} = \\
& +B_3^+\Phi_{(A_{13},C_3,D_8)} \\
& +C_3^+\Phi_{(A_{13},B_3,D_8)} \\
& +A_{13}^+D_8^+\Phi_{(B_3,C_3)} \\
& +B_3^+C_3^+\Phi_{(A_{13},D_8)} \\
& +A_{13}^+B_3^+D_8^+\Phi_{(C_3,)} \\
& +A_{13}^+C_3^+D_8^+\Phi_{(B_3,)} \\
& +A_{13}^+B_3^+C_3^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_3,C_4,D_9)} = \\
& +B_3^+\Phi_{(A_{13},C_4,D_9)} \\
& +A_{13}^+C_4^+D_9^+\Phi_{(B_3,)} \\
& +A_{13}^+B_3^+C_4^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_3,C_4,D_{10})} = \\
& +B_3^+\Phi_{(A_{13},C_4,D_{10})} \\
& +A_{13}^+C_4^+D_{10}^+\Phi_{(B_3,)}
\end{aligned}$$

$$+A_{13}^+B_3^+C_4^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_3,C_6,D_{11})} =$$

$$+B_3^+\Phi_{(A_{13},C_6,D_{11})}$$

$$+A_{13}^+C_6^+D_{11}^+\Phi_{(B_3,)}$$

$$+A_{13}^+B_3^+C_6^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_3,C_6,D_{12})} =$$

$$+B_3^+\Phi_{(A_{13},C_6,D_{12})}$$

$$+A_{13}^+C_6^+D_{12}^+\Phi_{(B_3,)}$$

$$+A_{13}^+B_3^+C_6^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_3,C_7,D_1)} =$$

$$+B_3^+\Phi_{(A_{13},C_7,D_1)}$$

$$+D_1^+\Phi_{(A_{13},B_3,C_7)}$$

$$+A_{13}^+C_7^+\Phi_{(B_3,D_1)}$$

$$+B_3^+D_1^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+B_3^+C_7^+\Phi_{(D_1,)}$$

$$+A_{13}^+C_7^+D_1^+\Phi_{(B_3,)}$$

$$+A_{13}^+B_3^+C_7^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{13},B_3,C_7,D_2)} =$$

$$+B_3^+\Phi_{(A_{13},C_7,D_2)}$$

$$+D_2^+\Phi_{(A_{13},B_3,C_7)}$$

$$+A_{13}^+C_7^+\Phi_{(B_3,D_2)}$$

$$+B_3^+D_2^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+B_3^+C_7^+\Phi_{(D_2,)}$$

$$+A_{13}^+C_7^+D_2^+\Phi_{(B_3,)}$$

$$+A_{13}^+B_3^+C_7^+D_2^+\Phi_{()}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_7, D_3)} = \\
& + B_3^+ \Phi_{(A_{13}, C_7, D_3)} \\
& + D_3^+ \Phi_{(A_{13}, B_3, C_7)} \\
& + A_{13}^+ C_7^+ \Phi_{(B_3, D_3)} \\
& + B_3^+ D_3^+ \Phi_{(A_{13}, C_7)} \\
& + A_{13}^+ B_3^+ C_7^+ \Phi_{(D_3,)} \\
& + A_{13}^+ C_7^+ D_3^+ \Phi_{(B_3,)} \\
& + A_{13}^+ B_3^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_8, D_1)} = \\
& + B_3^+ \Phi_{(A_{13}, C_8, D_1)} \\
& + D_1^+ \Phi_{(A_{13}, B_3, C_8)} \\
& + A_{13}^+ C_8^+ \Phi_{(B_3, D_1)} \\
& + B_3^+ D_1^+ \Phi_{(A_{13}, C_8)} \\
& + A_{13}^+ B_3^+ C_8^+ \Phi_{(D_1,)} \\
& + A_{13}^+ C_8^+ D_1^+ \Phi_{(B_3,)} \\
& + A_{13}^+ B_3^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_8, D_2)} = \\
& + B_3^+ \Phi_{(A_{13}, C_8, D_2)} \\
& + D_2^+ \Phi_{(A_{13}, B_3, C_8)} \\
& + A_{13}^+ C_8^+ \Phi_{(B_3, D_2)} \\
& + B_3^+ D_2^+ \Phi_{(A_{13}, C_8)} \\
& + A_{13}^+ B_3^+ C_8^+ \Phi_{(D_2,)} \\
& + A_{13}^+ C_8^+ D_2^+ \Phi_{(B_3,)} \\
& + A_{13}^+ B_3^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{13}, B_3, C_8, D_3)} =$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_{13}, C_8, D_3)} \\
& +D_3^+ \Phi_{(A_{13}, B_3, C_8)} \\
& +A_{13}^+ C_8^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_3^+ C_8^+ \Phi_{(D_3,)} \\
& +A_{13}^+ C_8^+ D_3^+ \Phi_{(B_3,)} \\
& +A_{13}^+ B_3^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_9, D_4)} = \\
& +B_3^+ \Phi_{(A_{13}, C_9, D_4)} \\
& +A_{13}^+ C_9^+ D_4^+ \Phi_{(B_3,)} \\
& +A_{13}^+ B_3^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_{10}, D_4)} = \\
& +B_3^+ \Phi_{(A_{13}, C_{10}, D_4)} \\
& +A_{13}^+ C_{10}^+ D_4^+ \Phi_{(B_3,)} \\
& +A_{13}^+ B_3^+ C_{10}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_{11}, D_6)} = \\
& +B_3^+ \Phi_{(A_{13}, C_{11}, D_6)} \\
& +A_{13}^+ C_{11}^+ D_6^+ \Phi_{(B_3,)} \\
& +A_{13}^+ B_3^+ C_{11}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_3, C_{12}, D_6)} = \\
& +B_3^+ \Phi_{(A_{13}, C_{12}, D_6)} \\
& +A_{13}^+ C_{12}^+ D_6^+ \Phi_{(B_3,)} \\
& +A_{13}^+ B_3^+ C_{12}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{13}, B_4, C_1, D_9)} =$$

$$\begin{aligned}
& +C_1^+ \Phi_{(A_{13}, B_4, D_9)} \\
& +A_{13}^+ B_4^+ D_9^+ \Phi_{(C_1,)} \\
& +A_{13}^+ B_4^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_4, C_1, D_{10})} = \\
& +C_1^+ \Phi_{(A_{13}, B_4, D_{10})} \\
& +A_{13}^+ B_4^+ D_{10}^+ \Phi_{(C_1,)} \\
& +A_{13}^+ B_4^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_4, C_2, D_9)} = \\
& +C_2^+ \Phi_{(A_{13}, B_4, D_9)} \\
& +A_{13}^+ B_4^+ D_9^+ \Phi_{(C_2,)} \\
& +A_{13}^+ B_4^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_4, C_2, D_{10})} = \\
& +C_2^+ \Phi_{(A_{13}, B_4, D_{10})} \\
& +A_{13}^+ B_4^+ D_{10}^+ \Phi_{(C_2,)} \\
& +A_{13}^+ B_4^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_4, C_3, D_9)} = \\
& +C_3^+ \Phi_{(A_{13}, B_4, D_9)} \\
& +A_{13}^+ B_4^+ D_9^+ \Phi_{(C_3,)} \\
& +A_{13}^+ B_4^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_4, C_3, D_{10})} = \\
& +C_3^+ \Phi_{(A_{13}, B_4, D_{10})} \\
& +A_{13}^+ B_4^+ D_{10}^+ \Phi_{(C_3,)} \\
& +A_{13}^+ B_4^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_4,C_5,D_7)} = \\
&+A_{13}^+D_7^+\Phi_{(B_4,C_5)} \\
&+B_4^+C_5^+\Phi_{(A_{13},D_7)} \\
&+A_{13}^+B_4^+C_5^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_4,C_5,D_8)} = \\
&+A_{13}^+D_8^+\Phi_{(B_4,C_5)} \\
&+B_4^+C_5^+\Phi_{(A_{13},D_8)} \\
&+A_{13}^+B_4^+C_5^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_4,C_6,D_{13})} = \\
&+A_{13}^+B_4^+C_6^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_4,C_6,D_{14})} = \\
&+A_{13}^+B_4^+C_6^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_4,C_7,D_5)} = \\
&+A_{13}^+C_7^+\Phi_{(B_4,D_5)} \\
&+B_4^+D_5^+\Phi_{(A_{13},C_7)} \\
&+A_{13}^+B_4^+C_7^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_4,C_8,D_5)} = \\
&+A_{13}^+C_8^+\Phi_{(B_4,D_5)} \\
&+B_4^+D_5^+\Phi_{(A_{13},C_8)} \\
&+A_{13}^+B_4^+C_8^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_4,C_9,D_1)} = \\
&+D_1^+\Phi_{(A_{13},B_4,C_9)} \\
&+A_{13}^+B_4^+C_9^+\Phi_{(D_1,)}
\end{aligned}$$

$$+A_{13}^+B_4^+C_9^+D_1^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{13},B_4,C_9,D_2)} = \\ +D_2^+\Phi_{(A_{13},B_4,C_9)} \\ +A_{13}^+B_4^+C_9^+\Phi_{(D_2,)} \\ +A_{13}^+B_4^+C_9^+D_2^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_4,C_9,D_3)} = \\ +D_3^+\Phi_{(A_{13},B_4,C_9)} \\ +A_{13}^+B_4^+C_9^+\Phi_{(D_3,)} \\ +A_{13}^+B_4^+C_9^+D_3^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_4,C_{10},D_1)} = \\ +D_1^+\Phi_{(A_{13},B_4,C_{10})} \\ +A_{13}^+B_4^+C_{10}^+\Phi_{(D_1,)} \\ +A_{13}^+B_4^+C_{10}^+D_1^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_4,C_{10},D_2)} = \\ +D_2^+\Phi_{(A_{13},B_4,C_{10})} \\ +A_{13}^+B_4^+C_{10}^+\Phi_{(D_2,)} \\ +A_{13}^+B_4^+C_{10}^+D_2^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_4,C_{10},D_3)} = \\ +D_3^+\Phi_{(A_{13},B_4,C_{10})} \\ +A_{13}^+B_4^+C_{10}^+\Phi_{(D_3,)} \\ +A_{13}^+B_4^+C_{10}^+D_3^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{13},B_4,C_{13},D_6)} = \\ +A_{13}^+B_4^+C_{13}^+D_6^+\Phi_{()} \end{aligned}$$

$$\begin{aligned}\Phi_{(A_{13},B_4,C_{14},D_6)} = \\ +A_{13}^+B_4^+C_{14}^+D_6^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{13},B_5,C_4,D_7)} = \\ +A_{13}^+D_7^+\Phi_{(B_5,C_4)} \\ +B_5^+C_4^+\Phi_{(A_{13},D_7)} \\ +A_{13}^+B_5^+C_4^+D_7^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{13},B_5,C_4,D_8)} = \\ +A_{13}^+D_8^+\Phi_{(B_5,C_4)} \\ +B_5^+C_4^+\Phi_{(A_{13},D_8)} \\ +A_{13}^+B_5^+C_4^+D_8^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{13},B_5,C_7,D_4)} = \\ +A_{13}^+C_7^+\Phi_{(B_5,D_4)} \\ +B_5^+D_4^+\Phi_{(A_{13},C_7)} \\ +A_{13}^+B_5^+C_7^+D_4^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{13},B_5,C_8,D_4)} = \\ +A_{13}^+C_8^+\Phi_{(B_5,D_4)} \\ +B_5^+D_4^+\Phi_{(A_{13},C_8)} \\ +A_{13}^+B_5^+C_8^+D_4^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{13},B_6,C_1,D_{11})} = \\ +C_1^+\Phi_{(A_{13},B_6,D_{11})} \\ +A_{13}^+B_6^+D_{11}^+\Phi_{(C_1,)} \\ +A_{13}^+B_6^+C_1^+D_{11}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_6, C_1, D_{12})} = & \\
& + C_1^+ \Phi_{(A_{13}, B_6, D_{12})} \\
& + A_{13}^+ B_6^+ D_{12}^+ \Phi_{(C_1,)} \\
& + A_{13}^+ B_6^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_6, C_2, D_{11})} = & \\
& + C_2^+ \Phi_{(A_{13}, B_6, D_{11})} \\
& + A_{13}^+ B_6^+ D_{11}^+ \Phi_{(C_2,)} \\
& + A_{13}^+ B_6^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_6, C_2, D_{12})} = & \\
& + C_2^+ \Phi_{(A_{13}, B_6, D_{12})} \\
& + A_{13}^+ B_6^+ D_{12}^+ \Phi_{(C_2,)} \\
& + A_{13}^+ B_6^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_6, C_3, D_{11})} = & \\
& + C_3^+ \Phi_{(A_{13}, B_6, D_{11})} \\
& + A_{13}^+ B_6^+ D_{11}^+ \Phi_{(C_3,)} \\
& + A_{13}^+ B_6^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_6, C_3, D_{12})} = & \\
& + C_3^+ \Phi_{(A_{13}, B_6, D_{12})} \\
& + A_{13}^+ B_6^+ D_{12}^+ \Phi_{(C_3,)} \\
& + A_{13}^+ B_6^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_6, C_4, D_{13})} = & \\
& + A_{13}^+ B_6^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{13}, B_6, C_4, D_{14})} =$$

$$+A_{13}^+B_6^+C_4^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_6,C_7,D_{15})} =$$

$$+A_{13}^+C_7^+\Phi_{(B_6,D_{15})}$$

$$+B_6^+D_{15}^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+B_6^+C_7^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_6,C_8,D_{15})} =$$

$$+A_{13}^+C_8^+\Phi_{(B_6,D_{15})}$$

$$+B_6^+D_{15}^+\Phi_{(A_{13},C_8)}$$

$$+A_{13}^+B_6^+C_8^+D_{15}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_6,C_{11},D_1)} =$$

$$+D_1^+\Phi_{(A_{13},B_6,C_{11})}$$

$$+A_{13}^+B_6^+C_{11}^+\Phi_{(D_1,)}$$

$$+A_{13}^+B_6^+C_{11}^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{13},B_6,C_{11},D_2)} =$$

$$+D_2^+\Phi_{(A_{13},B_6,C_{11})}$$

$$+A_{13}^+B_6^+C_{11}^+\Phi_{(D_2,)}$$

$$+A_{13}^+B_6^+C_{11}^+D_2^+\Phi_{()}$$

$$\Phi_{(A_{13},B_6,C_{11},D_3)} =$$

$$+D_3^+\Phi_{(A_{13},B_6,C_{11})}$$

$$+A_{13}^+B_6^+C_{11}^+\Phi_{(D_3,)}$$

$$+A_{13}^+B_6^+C_{11}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{13},B_6,C_{12},D_1)} =$$

$$+D_1^+\Phi_{(A_{13},B_6,C_{12})}$$

$$\begin{aligned}
& +A_{13}^+B_6^+C_{12}^+\Phi_{(D_1,)} \\
& +A_{13}^+B_6^+C_{12}^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_6,C_{12},D_2)} = \\
& +D_2^+\Phi_{(A_{13},B_6,C_{12})} \\
& +A_{13}^+B_6^+C_{12}^+\Phi_{(D_2,)} \\
& +A_{13}^+B_6^+C_{12}^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_6,C_{12},D_3)} = \\
& +D_3^+\Phi_{(A_{13},B_6,C_{12})} \\
& +A_{13}^+B_6^+C_{12}^+\Phi_{(D_3,)} \\
& +A_{13}^+B_6^+C_{12}^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_6,C_{13},D_4)} = \\
& +A_{13}^+B_6^+C_{13}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_6,C_{14},D_4)} = \\
& +A_{13}^+B_6^+C_{14}^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_6,C_{15},D_7)} = \\
& +A_{13}^+D_7^+\Phi_{(B_6,C_{15})} \\
& +B_6^+C_{15}^+\Phi_{(A_{13},D_7)} \\
& +A_{13}^+B_6^+C_{15}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_6,C_{15},D_8)} = \\
& +A_{13}^+D_8^+\Phi_{(B_6,C_{15})} \\
& +B_6^+C_{15}^+\Phi_{(A_{13},D_8)} \\
& +A_{13}^+B_6^+C_{15}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_1, D_1)} = \\
& + C_1^+ \Phi_{(A_{13}, B_7, D_1)} \\
& + D_1^+ \Phi_{(A_{13}, B_7, C_1)} \\
& + A_{13}^+ B_7^+ \Phi_{(C_1, D_1)} \\
& + C_1^+ D_1^+ \Phi_{(A_{13}, B_7)} \\
& + A_{13}^+ B_7^+ C_1^+ \Phi_{(D_1,)} \\
& + A_{13}^+ B_7^+ D_1^+ \Phi_{(C_1,)} \\
& + A_{13}^+ B_7^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_1, D_2)} = \\
& + C_1^+ \Phi_{(A_{13}, B_7, D_2)} \\
& + D_2^+ \Phi_{(A_{13}, B_7, C_1)} \\
& + A_{13}^+ B_7^+ \Phi_{(C_1, D_2)} \\
& + C_1^+ D_2^+ \Phi_{(A_{13}, B_7)} \\
& + A_{13}^+ B_7^+ C_1^+ \Phi_{(D_2,)} \\
& + A_{13}^+ B_7^+ D_2^+ \Phi_{(C_1,)} \\
& + A_{13}^+ B_7^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_1, D_3)} = \\
& + C_1^+ \Phi_{(A_{13}, B_7, D_3)} \\
& + D_3^+ \Phi_{(A_{13}, B_7, C_1)} \\
& + A_{13}^+ B_7^+ \Phi_{(C_1, D_3)} \\
& + C_1^+ D_3^+ \Phi_{(A_{13}, B_7)} \\
& + A_{13}^+ B_7^+ C_1^+ \Phi_{(D_3,)} \\
& + A_{13}^+ B_7^+ D_3^+ \Phi_{(C_1,)} \\
& + A_{13}^+ B_7^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_2, D_1)} = \\
& + C_2^+ \Phi_{(A_{13}, B_7, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_{13}, B_7, C_2)} \\
& +A_{13}^+ B_7^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_2^+ \Phi_{(D_1,)} \\
& +A_{13}^+ B_7^+ D_1^+ \Phi_{(C_2,)} \\
& +A_{13}^+ B_7^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_{13}, B_7, D_2)} \\
& +D_2^+ \Phi_{(A_{13}, B_7, C_2)} \\
& +A_{13}^+ B_7^+ \Phi_{(C_2, D_2)} \\
& +C_2^+ D_2^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_2^+ \Phi_{(D_2,)} \\
& +A_{13}^+ B_7^+ D_2^+ \Phi_{(C_2,)} \\
& +A_{13}^+ B_7^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_{13}, B_7, D_3)} \\
& +D_3^+ \Phi_{(A_{13}, B_7, C_2)} \\
& +A_{13}^+ B_7^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_2^+ \Phi_{(D_3,)} \\
& +A_{13}^+ B_7^+ D_3^+ \Phi_{(C_2,)} \\
& +A_{13}^+ B_7^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_{13}, B_7, D_1)} \\
& +D_1^+ \Phi_{(A_{13}, B_7, C_3)} \\
& +A_{13}^+ B_7^+ \Phi_{(C_3, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +C_3^+ D_1^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_3^+ \Phi_{(D_1,)} \\
& +A_{13}^+ B_7^+ D_1^+ \Phi_{(C_3,)} \\
& +A_{13}^+ B_7^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_{13}, B_7, D_2)} \\
& +D_2^+ \Phi_{(A_{13}, B_7, C_3)} \\
& +A_{13}^+ B_7^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_3^+ \Phi_{(D_2,)} \\
& +A_{13}^+ B_7^+ D_2^+ \Phi_{(C_3,)} \\
& +A_{13}^+ B_7^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_{13}, B_7, D_3)} \\
& +D_3^+ \Phi_{(A_{13}, B_7, C_3)} \\
& +A_{13}^+ B_7^+ \Phi_{(C_3, D_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_3^+ \Phi_{(D_3,)} \\
& +A_{13}^+ B_7^+ D_3^+ \Phi_{(C_3,)} \\
& +A_{13}^+ B_7^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_7, C_4, D_5)} = \\
& +A_{13}^+ B_7^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{13}, B_7, C_5, D_4)} =$$

$$\begin{aligned}
& +A_{13}^+B_7^+\Phi_{(C_5,D_4)} \\
& +C_5^+D_4^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_5^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_7,C_6,D_{15})} = \\
& +A_{13}^+B_7^+\Phi_{(C_6,D_{15})} \\
& +C_6^+D_{15}^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_6^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_7,C_7,D_{13})} = \\
& +A_{13}^+B_7^+\Phi_{(C_7,D_{13})} \\
& -A_{13}^+C_7^+\Phi_{(B_7,D_{13})} \\
& -B_7^+D_{13}^+\Phi_{(A_{13},C_7)} \\
& +C_7^+D_{13}^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_7^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_7,C_7,D_{14})} = \\
& +A_{13}^+B_7^+\Phi_{(C_7,D_{14})} \\
& -A_{13}^+C_7^+\Phi_{(B_7,D_{14})} \\
& -B_7^+D_{14}^+\Phi_{(A_{13},C_7)} \\
& +C_7^+D_{14}^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_7^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_7,C_8,D_{13})} = \\
& +A_{13}^+B_7^+\Phi_{(C_8,D_{13})} \\
& -A_{13}^+C_8^+\Phi_{(B_7,D_{13})} \\
& -B_7^+D_{13}^+\Phi_{(A_{13},C_8)} \\
& +C_8^+D_{13}^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_8^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_7, C_8, D_{14})} = \\
&+ A_{13}^+ B_7^+ \Phi_{(C_8, D_{14})} \\
&- A_{13}^+ C_8^+ \Phi_{(B_7, D_{14})} \\
&- B_7^+ D_{14}^+ \Phi_{(A_{13}, C_8)} \\
&+ C_8^+ D_{14}^+ \Phi_{(A_{13}, B_7)} \\
&+ A_{13}^+ B_7^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_7, C_9, D_{11})} = \\
&+ A_{13}^+ B_7^+ \Phi_{(C_9, D_{11})} \\
&+ C_9^+ D_{11}^+ \Phi_{(A_{13}, B_7)} \\
&+ A_{13}^+ B_7^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_7, C_9, D_{12})} = \\
&+ A_{13}^+ B_7^+ \Phi_{(C_9, D_{12})} \\
&+ C_9^+ D_{12}^+ \Phi_{(A_{13}, B_7)} \\
&+ A_{13}^+ B_7^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_7, C_{10}, D_{11})} = \\
&+ A_{13}^+ B_7^+ \Phi_{(C_{10}, D_{11})} \\
&+ C_{10}^+ D_{11}^+ \Phi_{(A_{13}, B_7)} \\
&+ A_{13}^+ B_7^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_7, C_{10}, D_{12})} = \\
&+ A_{13}^+ B_7^+ \Phi_{(C_{10}, D_{12})} \\
&+ C_{10}^+ D_{12}^+ \Phi_{(A_{13}, B_7)} \\
&+ A_{13}^+ B_7^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{13}, B_7, C_{11}, D_9)} =$$

$$\begin{aligned}
& +A_{13}^+B_7^+\Phi_{(C_{11},D_9)} \\
& +C_{11}^+D_9^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_{11}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_7,C_{11},D_{10})} = \\
& +A_{13}^+B_7^+\Phi_{(C_{11},D_{10})} \\
& +C_{11}^+D_{10}^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_{11}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_7,C_{12},D_9)} = \\
& +A_{13}^+B_7^+\Phi_{(C_{12},D_9)} \\
& +C_{12}^+D_9^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_{12}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_7,C_{12},D_{10})} = \\
& +A_{13}^+B_7^+\Phi_{(C_{12},D_{10})} \\
& +C_{12}^+D_{10}^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_{12}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_7,C_{13},D_7)} = \\
& +A_{13}^+B_7^+\Phi_{(C_{13},D_7)} \\
& +A_{13}^+D_7^+\Phi_{(B_7,C_{13})} \\
& +B_7^+C_{13}^+\Phi_{(A_{13},D_7)} \\
& +C_{13}^+D_7^+\Phi_{(A_{13},B_7)} \\
& +A_{13}^+B_7^+C_{13}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13},B_7,C_{13},D_8)} = \\
& +A_{13}^+B_7^+\Phi_{(C_{13},D_8)} \\
& +A_{13}^+D_8^+\Phi_{(B_7,C_{13})}
\end{aligned}$$

$$\begin{aligned}
& +B_7^+ C_{13}^+ \Phi_{(A_{13}, D_8)} \\
& +C_{13}^+ D_8^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_{13}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_7, C_{14}, D_7)} = \\
& +A_{13}^+ B_7^+ \Phi_{(C_{14}, D_7)} \\
& +A_{13}^+ D_7^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_{13}, D_7)} \\
& +C_{14}^+ D_7^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_7, C_{14}, D_8)} = \\
& +A_{13}^+ B_7^+ \Phi_{(C_{14}, D_8)} \\
& +A_{13}^+ D_8^+ \Phi_{(B_7, C_{14})} \\
& +B_7^+ C_{14}^+ \Phi_{(A_{13}, D_8)} \\
& +C_{14}^+ D_8^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_7, C_{15}, D_6)} = \\
& +A_{13}^+ B_7^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_{13}, B_7)} \\
& +A_{13}^+ B_7^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_8, C_1, D_1)} = \\
& +C_1^+ \Phi_{(A_{13}, B_8, D_1)} \\
& +D_1^+ \Phi_{(A_{13}, B_8, C_1)} \\
& +A_{13}^+ B_8^+ \Phi_{(C_1, D_1)} \\
& +C_1^+ D_1^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_1^+ \Phi_{(D_1,)}
\end{aligned}$$

$$\begin{aligned}
& +A_{13}^+B_8^+D_1^+\Phi_{(C_1,)} \\
& +A_{13}^+B_8^+C_1^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_8,C_1,D_2)} = & \\
& +C_1^+\Phi_{(A_{13},B_8,D_2)} \\
& +D_2^+\Phi_{(A_{13},B_8,C_1)} \\
& +A_{13}^+B_8^+\Phi_{(C_1,D_2)} \\
& +C_1^+D_2^+\Phi_{(A_{13},B_8)} \\
& +A_{13}^+B_8^+C_1^+\Phi_{(D_2,)} \\
& +A_{13}^+B_8^+D_2^+\Phi_{(C_1,)} \\
& +A_{13}^+B_8^+C_1^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_8,C_1,D_3)} = & \\
& +C_1^+\Phi_{(A_{13},B_8,D_3)} \\
& +D_3^+\Phi_{(A_{13},B_8,C_1)} \\
& +A_{13}^+B_8^+\Phi_{(C_1,D_3)} \\
& +C_1^+D_3^+\Phi_{(A_{13},B_8)} \\
& +A_{13}^+B_8^+C_1^+\Phi_{(D_3,)} \\
& +A_{13}^+B_8^+D_3^+\Phi_{(C_1,)} \\
& +A_{13}^+B_8^+C_1^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_8,C_2,D_1)} = & \\
& +C_2^+\Phi_{(A_{13},B_8,D_1)} \\
& +D_1^+\Phi_{(A_{13},B_8,C_2)} \\
& +A_{13}^+B_8^+\Phi_{(C_2,D_1)} \\
& +C_2^+D_1^+\Phi_{(A_{13},B_8)} \\
& +A_{13}^+B_8^+C_2^+\Phi_{(D_1,)} \\
& +A_{13}^+B_8^+D_1^+\Phi_{(C_2,)} \\
& +A_{13}^+B_8^+C_2^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_8, C_2, D_2)} = \\
&+ C_2^+ \Phi_{(A_{13}, B_8, D_2)} \\
&+ D_2^+ \Phi_{(A_{13}, B_8, C_2)} \\
&+ A_{13}^+ B_8^+ \Phi_{(C_2, D_2)} \\
&+ C_2^+ D_2^+ \Phi_{(A_{13}, B_8)} \\
&+ A_{13}^+ B_8^+ C_2^+ \Phi_{(D_2,)} \\
&+ A_{13}^+ B_8^+ D_2^+ \Phi_{(C_2,)} \\
&+ A_{13}^+ B_8^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_8, C_2, D_3)} = \\
&+ C_2^+ \Phi_{(A_{13}, B_8, D_3)} \\
&+ D_3^+ \Phi_{(A_{13}, B_8, C_2)} \\
&+ A_{13}^+ B_8^+ \Phi_{(C_2, D_3)} \\
&+ C_2^+ D_3^+ \Phi_{(A_{13}, B_8)} \\
&+ A_{13}^+ B_8^+ C_2^+ \Phi_{(D_3,)} \\
&+ A_{13}^+ B_8^+ D_3^+ \Phi_{(C_2,)} \\
&+ A_{13}^+ B_8^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13}, B_8, C_3, D_1)} = \\
&+ C_3^+ \Phi_{(A_{13}, B_8, D_1)} \\
&+ D_1^+ \Phi_{(A_{13}, B_8, C_3)} \\
&+ A_{13}^+ B_8^+ \Phi_{(C_3, D_1)} \\
&+ C_3^+ D_1^+ \Phi_{(A_{13}, B_8)} \\
&+ A_{13}^+ B_8^+ C_3^+ \Phi_{(D_1,)} \\
&+ A_{13}^+ B_8^+ D_1^+ \Phi_{(C_3,)} \\
&+ A_{13}^+ B_8^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{13}, B_8, C_3, D_2)} =$$

$$\begin{aligned}
& +C_3^+ \Phi_{(A_{13}, B_8, D_2)} \\
& +D_2^+ \Phi_{(A_{13}, B_8, C_3)} \\
& +A_{13}^+ B_8^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_3^+ \Phi_{(D_2,)} \\
& +A_{13}^+ B_8^+ D_2^+ \Phi_{(C_3,)} \\
& +A_{13}^+ B_8^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_8, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_{13}, B_8, D_3)} \\
& +D_3^+ \Phi_{(A_{13}, B_8, C_3)} \\
& +A_{13}^+ B_8^+ \Phi_{(C_3, D_3)} \\
& +C_3^+ D_3^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_3^+ \Phi_{(D_3,)} \\
& +A_{13}^+ B_8^+ D_3^+ \Phi_{(C_3,)} \\
& +A_{13}^+ B_8^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_8, C_4, D_5)} = \\
& +A_{13}^+ B_8^+ \Phi_{(C_4, D_5)} \\
& +C_4^+ D_5^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_8, C_5, D_4)} = \\
& +A_{13}^+ B_8^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_8, C_6, D_{15})} = \\
& +A_{13}^+ B_8^+ \Phi_{(C_6, D_{15})}
\end{aligned}$$

$$\begin{aligned}
& +C_6^+ D_{15}^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_8, C_7, D_{13})} = \\
& +A_{13}^+ B_8^+ \Phi_{(C_7, D_{13})} \\
& -A_{13}^+ C_7^+ \Phi_{(B_8, D_{13})} \\
& -B_8^+ D_{13}^+ \Phi_{(A_{13}, C_7)} \\
& +C_7^+ D_{13}^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_8, C_7, D_{14})} = \\
& +A_{13}^+ B_8^+ \Phi_{(C_7, D_{14})} \\
& -A_{13}^+ C_7^+ \Phi_{(B_8, D_{14})} \\
& -B_8^+ D_{14}^+ \Phi_{(A_{13}, C_7)} \\
& +C_7^+ D_{14}^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_8, C_8, D_{13})} = \\
& +A_{13}^+ B_8^+ \Phi_{(C_8, D_{13})} \\
& -A_{13}^+ C_8^+ \Phi_{(B_8, D_{13})} \\
& -B_8^+ D_{13}^+ \Phi_{(A_{13}, C_8)} \\
& +C_8^+ D_{13}^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_8, C_8, D_{14})} = \\
& +A_{13}^+ B_8^+ \Phi_{(C_8, D_{14})} \\
& -A_{13}^+ C_8^+ \Phi_{(B_8, D_{14})} \\
& -B_8^+ D_{14}^+ \Phi_{(A_{13}, C_8)} \\
& +C_8^+ D_{14}^+ \Phi_{(A_{13}, B_8)}
\end{aligned}$$

$$+A_{13}^+B_8^+C_8^+D_{14}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_8,C_9,D_{11})} =$$

$$+A_{13}^+B_8^+\Phi_{(C_9,D_{11})}$$

$$+C_9^+D_{11}^+\Phi_{(A_{13},B_8)}$$

$$+A_{13}^+B_8^+C_9^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_8,C_9,D_{12})} =$$

$$+A_{13}^+B_8^+\Phi_{(C_9,D_{12})}$$

$$+C_9^+D_{12}^+\Phi_{(A_{13},B_8)}$$

$$+A_{13}^+B_8^+C_9^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_8,C_{10},D_{11})} =$$

$$+A_{13}^+B_8^+\Phi_{(C_{10},D_{11})}$$

$$+C_{10}^+D_{11}^+\Phi_{(A_{13},B_8)}$$

$$+A_{13}^+B_8^+C_{10}^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_8,C_{10},D_{12})} =$$

$$+A_{13}^+B_8^+\Phi_{(C_{10},D_{12})}$$

$$+C_{10}^+D_{12}^+\Phi_{(A_{13},B_8)}$$

$$+A_{13}^+B_8^+C_{10}^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_8,C_{11},D_9)} =$$

$$+A_{13}^+B_8^+\Phi_{(C_{11},D_9)}$$

$$+C_{11}^+D_9^+\Phi_{(A_{13},B_8)}$$

$$+A_{13}^+B_8^+C_{11}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{13},B_8,C_{11},D_{10})} =$$

$$+A_{13}^+B_8^+\Phi_{(C_{11},D_{10})}$$

$$\begin{aligned}
& +C_{11}^+D_{10}^+\Phi_{(A_{13},B_8)} \\
& +A_{13}^+B_8^+C_{11}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_8,C_{12},D_9)} = \\
& +A_{13}^+B_8^+\Phi_{(C_{12},D_9)} \\
& +C_{12}^+D_9^+\Phi_{(A_{13},B_8)} \\
& +A_{13}^+B_8^+C_{12}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_8,C_{12},D_{10})} = \\
& +A_{13}^+B_8^+\Phi_{(C_{12},D_{10})} \\
& +C_{12}^+D_{10}^+\Phi_{(A_{13},B_8)} \\
& +A_{13}^+B_8^+C_{12}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_8,C_{13},D_7)} = \\
& +A_{13}^+B_8^+\Phi_{(C_{13},D_7)} \\
& +A_{13}^+D_7^+\Phi_{(B_8,C_{13})} \\
& +B_8^+C_{13}^+\Phi_{(A_{13},D_7)} \\
& +C_{13}^+D_7^+\Phi_{(A_{13},B_8)} \\
& +A_{13}^+B_8^+C_{13}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_8,C_{13},D_8)} = \\
& +A_{13}^+B_8^+\Phi_{(C_{13},D_8)} \\
& +A_{13}^+D_8^+\Phi_{(B_8,C_{13})} \\
& +B_8^+C_{13}^+\Phi_{(A_{13},D_8)} \\
& +C_{13}^+D_8^+\Phi_{(A_{13},B_8)} \\
& +A_{13}^+B_8^+C_{13}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_8,C_{14},D_7)} = \\
& +A_{13}^+B_8^+\Phi_{(C_{14},D_7)}
\end{aligned}$$

$$\begin{aligned}
& +A_{13}^+ D_7^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_{13}, D_7)} \\
& +C_{14}^+ D_7^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_{14}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_8, C_{14}, D_8)} = \\
& +A_{13}^+ B_8^+ \Phi_{(C_{14}, D_8)} \\
& +A_{13}^+ D_8^+ \Phi_{(B_8, C_{14})} \\
& +B_8^+ C_{14}^+ \Phi_{(A_{13}, D_8)} \\
& +C_{14}^+ D_8^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_8, C_{15}, D_6)} = \\
& +A_{13}^+ B_8^+ \Phi_{(C_{15}, D_6)} \\
& +C_{15}^+ D_6^+ \Phi_{(A_{13}, B_8)} \\
& +A_{13}^+ B_8^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_9, C_1, D_4)} = \\
& +C_1^+ \Phi_{(A_{13}, B_9, D_4)} \\
& +A_{13}^+ B_9^+ D_4^+ \Phi_{(C_1,)} \\
& +A_{13}^+ B_9^+ C_1^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_9, C_2, D_4)} = \\
& +C_2^+ \Phi_{(A_{13}, B_9, D_4)} \\
& +A_{13}^+ B_9^+ D_4^+ \Phi_{(C_2,)} \\
& +A_{13}^+ B_9^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_9, C_3, D_4)} = \\
& +C_3^+ \Phi_{(A_{13}, B_9, D_4)}
\end{aligned}$$

$$+A_{13}^+B_9^+D_4^+\Phi_{(C_3,)}$$

$$+A_{13}^+B_9^+C_3^+D_4^+\Phi_{()}$$

$$\Phi_{(A_{13},B_9,C_4,D_1)} =$$

$$+D_1^+\Phi_{(A_{13},B_9,C_4)}$$

$$+A_{13}^+B_9^+C_4^+\Phi_{(D_1,)}$$

$$+A_{13}^+B_9^+C_4^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{13},B_9,C_4,D_2)} =$$

$$+D_2^+\Phi_{(A_{13},B_9,C_4)}$$

$$+A_{13}^+B_9^+C_4^+\Phi_{(D_2,)}$$

$$+A_{13}^+B_9^+C_4^+D_2^+\Phi_{()}$$

$$\Phi_{(A_{13},B_9,C_4,D_3)} =$$

$$+D_3^+\Phi_{(A_{13},B_9,C_4)}$$

$$+A_{13}^+B_9^+C_4^+\Phi_{(D_3,)}$$

$$+A_{13}^+B_9^+C_4^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{13},B_9,C_7,D_{11})} =$$

$$-A_{13}^+C_7^+\Phi_{(B_9,D_{11})}$$

$$-B_9^+D_{11}^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+B_9^+C_7^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_9,C_7,D_{12})} =$$

$$-A_{13}^+C_7^+\Phi_{(B_9,D_{12})}$$

$$-B_9^+D_{12}^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+B_9^+C_7^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{13},B_9,C_8,D_{11})} =$$

$$\begin{aligned}
& -A_{13}^+ C_8^+ \Phi_{(B_9, D_{11})} \\
& -B_9^+ D_{11}^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_9^+ C_8^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_9, C_8, D_{12})} = \\
& -A_{13}^+ C_8^+ \Phi_{(B_9, D_{12})} \\
& -B_9^+ D_{12}^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_9^+ C_8^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_9, C_{11}, D_7)} = \\
& +A_{13}^+ D_7^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_9^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_9, C_{11}, D_8)} = \\
& +A_{13}^+ D_8^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_9^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_9, C_{12}, D_7)} = \\
& +A_{13}^+ D_7^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_9^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_9, C_{12}, D_8)} = \\
& +A_{13}^+ D_8^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_9^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_{10},C_1,D_4)} = \\
&+C_1^+\Phi_{(A_{13},B_{10},D_4)} \\
&+A_{13}^+B_{10}^+D_4^+\Phi_{(C_1,)} \\
&+A_{13}^+B_{10}^+C_1^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_{10},C_2,D_4)} = \\
&+C_2^+\Phi_{(A_{13},B_{10},D_4)} \\
&+A_{13}^+B_{10}^+D_4^+\Phi_{(C_2,)} \\
&+A_{13}^+B_{10}^+C_2^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_{10},C_3,D_4)} = \\
&+C_3^+\Phi_{(A_{13},B_{10},D_4)} \\
&+A_{13}^+B_{10}^+D_4^+\Phi_{(C_3,)} \\
&+A_{13}^+B_{10}^+C_3^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_{10},C_4,D_1)} = \\
&+D_1^+\Phi_{(A_{13},B_{10},C_4)} \\
&+A_{13}^+B_{10}^+C_4^+\Phi_{(D_1,)} \\
&+A_{13}^+B_{10}^+C_4^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_{10},C_4,D_2)} = \\
&+D_2^+\Phi_{(A_{13},B_{10},C_4)} \\
&+A_{13}^+B_{10}^+C_4^+\Phi_{(D_2,)} \\
&+A_{13}^+B_{10}^+C_4^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{13},B_{10},C_4,D_3)} = \\
&+D_3^+\Phi_{(A_{13},B_{10},C_4)} \\
&+A_{13}^+B_{10}^+C_4^+\Phi_{(D_3,)} \\
&+A_{13}^+B_{10}^+C_4^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{10}, C_7, D_{11})} = & \\
& -A_{13}^+ C_7^+ \Phi_{(B_{10}, D_{11})} \\
& -B_{10}^+ D_{11}^+ \Phi_{(A_{13}, C_7)} \\
& +A_{13}^+ B_{10}^+ C_7^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{10}, C_7, D_{12})} = & \\
& -A_{13}^+ C_7^+ \Phi_{(B_{10}, D_{12})} \\
& -B_{10}^+ D_{12}^+ \Phi_{(A_{13}, C_7)} \\
& +A_{13}^+ B_{10}^+ C_7^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{10}, C_8, D_{11})} = & \\
& -A_{13}^+ C_8^+ \Phi_{(B_{10}, D_{11})} \\
& -B_{10}^+ D_{11}^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_{10}^+ C_8^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{10}, C_8, D_{12})} = & \\
& -A_{13}^+ C_8^+ \Phi_{(B_{10}, D_{12})} \\
& -B_{10}^+ D_{12}^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_{10}^+ C_8^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{10}, C_{11}, D_7)} = & \\
& +A_{13}^+ D_7^+ \Phi_{(B_{10}, C_{11})} \\
& +B_{10}^+ C_{11}^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_{10}^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{10}, C_{11}, D_8)} = & \\
& +A_{13}^+ D_8^+ \Phi_{(B_{10}, C_{11})} \\
& +B_{10}^+ C_{11}^+ \Phi_{(A_{13}, D_8)}
\end{aligned}$$

$$+A_{13}^+B_{10}^+C_{11}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{10},C_{12},D_7)} =$$

$$+A_{13}^+D_7^+\Phi_{(B_{10},C_{12})}$$

$$+B_{10}^+C_{12}^+\Phi_{(A_{13},D_7)}$$

$$+A_{13}^+B_{10}^+C_{12}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{10},C_{12},D_8)} =$$

$$+A_{13}^+D_8^+\Phi_{(B_{10},C_{12})}$$

$$+B_{10}^+C_{12}^+\Phi_{(A_{13},D_8)}$$

$$+A_{13}^+B_{10}^+C_{12}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{11},C_1,D_6)} =$$

$$+C_1^+\Phi_{(A_{13},B_{11},D_6)}$$

$$+A_{13}^+B_{11}^+D_6^+\Phi_{(C_1,)}$$

$$+A_{13}^+B_{11}^+C_1^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{11},C_2,D_6)} =$$

$$+C_2^+\Phi_{(A_{13},B_{11},D_6)}$$

$$+A_{13}^+B_{11}^+D_6^+\Phi_{(C_2,)}$$

$$+A_{13}^+B_{11}^+C_2^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{11},C_3,D_6)} =$$

$$+C_3^+\Phi_{(A_{13},B_{11},D_6)}$$

$$+A_{13}^+B_{11}^+D_6^+\Phi_{(C_3,)}$$

$$+A_{13}^+B_{11}^+C_3^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{11},C_6,D_1)} =$$

$$+D_1^+\Phi_{(A_{13},B_{11},C_6)}$$

$$\begin{aligned}
& +A_{13}^+B_{11}^+C_6^+\Phi_{(D_1,)} \\
& +A_{13}^+B_{11}^+C_6^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_{11},C_6,D_2)} = \\
& +D_2^+\Phi_{(A_{13},B_{11},C_6)} \\
& +A_{13}^+B_{11}^+C_6^+\Phi_{(D_2,)} \\
& +A_{13}^+B_{11}^+C_6^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_{11},C_6,D_3)} = \\
& +D_3^+\Phi_{(A_{13},B_{11},C_6)} \\
& +A_{13}^+B_{11}^+C_6^+\Phi_{(D_3,)} \\
& +A_{13}^+B_{11}^+C_6^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_{11},C_7,D_9)} = \\
& -A_{13}^+C_7^+\Phi_{(B_{11},D_9)} \\
& -B_{11}^+D_9^+\Phi_{(A_{13},C_7)} \\
& +A_{13}^+B_{11}^+C_7^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_{11},C_7,D_{10})} = \\
& -A_{13}^+C_7^+\Phi_{(B_{11},D_{10})} \\
& -B_{11}^+D_{10}^+\Phi_{(A_{13},C_7)} \\
& +A_{13}^+B_{11}^+C_7^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_{11},C_8,D_9)} = \\
& -A_{13}^+C_8^+\Phi_{(B_{11},D_9)} \\
& -B_{11}^+D_9^+\Phi_{(A_{13},C_8)} \\
& +A_{13}^+B_{11}^+C_8^+D_9^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{13},B_{11},C_8,D_{10})} =$$

$$\begin{aligned}
& -A_{13}^+ C_8^+ \Phi_{(B_{11}, D_{10})} \\
& -B_{11}^+ D_{10}^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_{11}^+ C_8^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_{11}, C_9, D_7)} = \\
& +A_{13}^+ D_7^+ \Phi_{(B_{11}, C_9)} \\
& +B_{11}^+ C_9^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_{11}^+ C_9^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_{11}, C_9, D_8)} = \\
& +A_{13}^+ D_8^+ \Phi_{(B_{11}, C_9)} \\
& +B_{11}^+ C_9^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_{11}^+ C_9^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_{11}, C_{10}, D_7)} = \\
& +A_{13}^+ D_7^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_{11}^+ C_{10}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_{11}, C_{10}, D_8)} = \\
& +A_{13}^+ D_8^+ \Phi_{(B_{11}, C_{10})} \\
& +B_{11}^+ C_{10}^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_{11}^+ C_{10}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{13}, B_{12}, C_1, D_6)} = \\
& +C_1^+ \Phi_{(A_{13}, B_{12}, D_6)} \\
& +A_{13}^+ B_{12}^+ D_6^+ \Phi_{(C_1,)} \\
& +A_{13}^+ B_{12}^+ C_1^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_2, D_6)} = & \\
& + C_2^+ \Phi_{(A_{13}, B_{12}, D_6)} \\
& + A_{13}^+ B_{12}^+ D_6^+ \Phi_{(C_2,)} \\
& + A_{13}^+ B_{12}^+ C_2^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_3, D_6)} = & \\
& + C_3^+ \Phi_{(A_{13}, B_{12}, D_6)} \\
& + A_{13}^+ B_{12}^+ D_6^+ \Phi_{(C_3,)} \\
& + A_{13}^+ B_{12}^+ C_3^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_6, D_1)} = & \\
& + D_1^+ \Phi_{(A_{13}, B_{12}, C_6)} \\
& + A_{13}^+ B_{12}^+ C_6^+ \Phi_{(D_1,)} \\
& + A_{13}^+ B_{12}^+ C_6^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_6, D_2)} = & \\
& + D_2^+ \Phi_{(A_{13}, B_{12}, C_6)} \\
& + A_{13}^+ B_{12}^+ C_6^+ \Phi_{(D_2,)} \\
& + A_{13}^+ B_{12}^+ C_6^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_6, D_3)} = & \\
& + D_3^+ \Phi_{(A_{13}, B_{12}, C_6)} \\
& + A_{13}^+ B_{12}^+ C_6^+ \Phi_{(D_3,)} \\
& + A_{13}^+ B_{12}^+ C_6^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_7, D_9)} = & \\
& - A_{13}^+ C_7^+ \Phi_{(B_{12}, D_9)} \\
& - B_{12}^+ D_9^+ \Phi_{(A_{13}, C_7)} \\
& + A_{13}^+ B_{12}^+ C_7^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_7, D_{10})} = & \\
& -A_{13}^+ C_7^+ \Phi_{(B_{12}, D_{10})} \\
& -B_{12}^+ D_{10}^+ \Phi_{(A_{13}, C_7)} \\
& +A_{13}^+ B_{12}^+ C_7^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_8, D_9)} = & \\
& -A_{13}^+ C_8^+ \Phi_{(B_{12}, D_9)} \\
& -B_{12}^+ D_9^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_{12}^+ C_8^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_8, D_{10})} = & \\
& -A_{13}^+ C_8^+ \Phi_{(B_{12}, D_{10})} \\
& -B_{12}^+ D_{10}^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_{12}^+ C_8^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_9, D_7)} = & \\
& +A_{13}^+ D_7^+ \Phi_{(B_{12}, C_9)} \\
& +B_{12}^+ C_9^+ \Phi_{(A_{13}, D_7)} \\
& +A_{13}^+ B_{12}^+ C_9^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_9, D_8)} = & \\
& +A_{13}^+ D_8^+ \Phi_{(B_{12}, C_9)} \\
& +B_{12}^+ C_9^+ \Phi_{(A_{13}, D_8)} \\
& +A_{13}^+ B_{12}^+ C_9^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{12}, C_{10}, D_7)} = & \\
& +A_{13}^+ D_7^+ \Phi_{(B_{12}, C_{10})} \\
& +B_{12}^+ C_{10}^+ \Phi_{(A_{13}, D_7)}
\end{aligned}$$

$$+A_{13}^+B_{12}^+C_{10}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{12},C_{10},D_8)} =$$

$$+A_{13}^+D_8^+\Phi_{(B_{12},C_{10})}$$

$$+B_{12}^+C_{10}^+\Phi_{(A_{13},D_8)}$$

$$+A_{13}^+B_{12}^+C_{10}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{13},C_4,D_6)} =$$

$$+A_{13}^+B_{13}^+C_4^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{13},C_6,D_4)} =$$

$$+A_{13}^+B_{13}^+C_6^+D_4^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{13},C_7,D_7)} =$$

$$-A_{13}^+C_7^+\Phi_{(B_{13},D_7)}$$

$$+A_{13}^+D_7^+\Phi_{(B_{13},C_7)}$$

$$+B_{13}^+C_7^+\Phi_{(A_{13},D_7)}$$

$$-B_{13}^+D_7^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+B_{13}^+C_7^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{13},C_7,D_8)} =$$

$$-A_{13}^+C_7^+\Phi_{(B_{13},D_8)}$$

$$+A_{13}^+D_8^+\Phi_{(B_{13},C_7)}$$

$$+B_{13}^+C_7^+\Phi_{(A_{13},D_8)}$$

$$-B_{13}^+D_8^+\Phi_{(A_{13},C_7)}$$

$$+A_{13}^+B_{13}^+C_7^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{13},B_{13},C_8,D_7)} =$$

$$-A_{13}^+C_8^+\Phi_{(B_{13},D_7)}$$

$$\begin{aligned}
& +A_{13}^+ D_7^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_{13}, D_7)} \\
& -B_{13}^+ D_7^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_{13}^+ C_8^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{13}, C_8, D_8)} = \\
& -A_{13}^+ C_8^+ \Phi_{(B_{13}, D_8)} \\
& +A_{13}^+ D_8^+ \Phi_{(B_{13}, C_8)} \\
& +B_{13}^+ C_8^+ \Phi_{(A_{13}, D_8)} \\
& -B_{13}^+ D_8^+ \Phi_{(A_{13}, C_8)} \\
& +A_{13}^+ B_{13}^+ C_8^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{14}, C_4, D_6)} = \\
& +A_{13}^+ B_{14}^+ C_4^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{14}, C_6, D_4)} = \\
& +A_{13}^+ B_{14}^+ C_6^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{14}, C_7, D_7)} = \\
& -A_{13}^+ C_7^+ \Phi_{(B_{14}, D_7)} \\
& +A_{13}^+ D_7^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_{13}, D_7)} \\
& -B_{14}^+ D_7^+ \Phi_{(A_{13}, C_7)} \\
& +A_{13}^+ B_{14}^+ C_7^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{14}, C_7, D_8)} = \\
& -A_{13}^+ C_7^+ \Phi_{(B_{14}, D_8)} \\
& +A_{13}^+ D_8^+ \Phi_{(B_{14}, C_7)} \\
& +B_{14}^+ C_7^+ \Phi_{(A_{13}, D_8)}
\end{aligned}$$

$$\begin{aligned}
& -B_{14}^+ D_8^+ \Phi_{(A_{13}, C_7)} \\
& + A_{13}^+ B_{14}^+ C_7^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{14}, C_8, D_7)} = \\
& -A_{13}^+ C_8^+ \Phi_{(B_{14}, D_7)} \\
& + A_{13}^+ D_7^+ \Phi_{(B_{14}, C_8)} \\
& + B_{14}^+ C_8^+ \Phi_{(A_{13}, D_7)} \\
& - B_{14}^+ D_7^+ \Phi_{(A_{13}, C_8)} \\
& + A_{13}^+ B_{14}^+ C_8^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{14}, C_8, D_8)} = \\
& -A_{13}^+ C_8^+ \Phi_{(B_{14}, D_8)} \\
& + A_{13}^+ D_8^+ \Phi_{(B_{14}, C_8)} \\
& + B_{14}^+ C_8^+ \Phi_{(A_{13}, D_8)} \\
& - B_{14}^+ D_8^+ \Phi_{(A_{13}, C_8)} \\
& + A_{13}^+ B_{14}^+ C_8^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{15}, C_6, D_7)} = \\
& + A_{13}^+ D_7^+ \Phi_{(B_{15}, C_6)} \\
& + B_{15}^+ C_6^+ \Phi_{(A_{13}, D_7)} \\
& + A_{13}^+ B_{15}^+ C_6^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{15}, C_6, D_8)} = \\
& + A_{13}^+ D_8^+ \Phi_{(B_{15}, C_6)} \\
& + B_{15}^+ C_6^+ \Phi_{(A_{13}, D_8)} \\
& + A_{13}^+ B_{15}^+ C_6^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13}, B_{15}, C_7, D_6)} = \\
& + A_{13}^+ C_7^+ \Phi_{(B_{15}, D_6)}
\end{aligned}$$

$$\begin{aligned}
& +B_{15}^+D_6^+\Phi_{(A_{13},C_7)} \\
& +A_{13}^+B_{15}^+C_7^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{13},B_{15},C_8,D_6)} = \\
& +A_{13}^+C_8^+\Phi_{(B_{15},D_6)} \\
& +B_{15}^+D_6^+\Phi_{(A_{13},C_8)} \\
& +A_{13}^+B_{15}^+C_8^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_1,C_1,D_7)} = \\
& +B_1^+\Phi_{(A_{14},C_1,D_7)} \\
& +C_1^+\Phi_{(A_{14},B_1,D_7)} \\
& +A_{14}^+D_7^+\Phi_{(B_1,C_1)} \\
& +B_1^+C_1^+\Phi_{(A_{14},D_7)} \\
& +A_{14}^+B_1^+D_7^+\Phi_{(C_1,)} \\
& +A_{14}^+C_1^+D_7^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_1^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_1,C_1,D_8)} = \\
& +B_1^+\Phi_{(A_{14},C_1,D_8)} \\
& +C_1^+\Phi_{(A_{14},B_1,D_8)} \\
& +A_{14}^+D_8^+\Phi_{(B_1,C_1)} \\
& +B_1^+C_1^+\Phi_{(A_{14},D_8)} \\
& +A_{14}^+B_1^+D_8^+\Phi_{(C_1,)} \\
& +A_{14}^+C_1^+D_8^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_1^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_1,C_2,D_7)} = \\
& +B_1^+\Phi_{(A_{14},C_2,D_7)} \\
& +C_2^+\Phi_{(A_{14},B_1,D_7)}
\end{aligned}$$

$$\begin{aligned}
& +A_{14}^+D_7^+\Phi_{(B_1,C_2)} \\
& +B_1^+C_2^+\Phi_{(A_{14},D_7)} \\
& +A_{14}^+B_1^+D_7^+\Phi_{(C_2,)} \\
& +A_{14}^+C_2^+D_7^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_2^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_1,C_2,D_8)} = \\
& +B_1^+\Phi_{(A_{14},C_2,D_8)} \\
& +C_2^+\Phi_{(A_{14},B_1,D_8)} \\
& +A_{14}^+D_8^+\Phi_{(B_1,C_2)} \\
& +B_1^+C_2^+\Phi_{(A_{14},D_8)} \\
& +A_{14}^+B_1^+D_8^+\Phi_{(C_2,)} \\
& +A_{14}^+C_2^+D_8^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_2^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_1,C_3,D_7)} = \\
& +B_1^+\Phi_{(A_{14},C_3,D_7)} \\
& +C_3^+\Phi_{(A_{14},B_1,D_7)} \\
& +A_{14}^+D_7^+\Phi_{(B_1,C_3)} \\
& +B_1^+C_3^+\Phi_{(A_{14},D_7)} \\
& +A_{14}^+B_1^+D_7^+\Phi_{(C_3,)} \\
& +A_{14}^+C_3^+D_7^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_3^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_1,C_3,D_8)} = \\
& +B_1^+\Phi_{(A_{14},C_3,D_8)} \\
& +C_3^+\Phi_{(A_{14},B_1,D_8)} \\
& +A_{14}^+D_8^+\Phi_{(B_1,C_3)} \\
& +B_1^+C_3^+\Phi_{(A_{14},D_8)}
\end{aligned}$$

$$\begin{aligned}
& +A_{14}^+B_1^+D_8^+\Phi_{(C_3,)} \\
& +A_{14}^+C_3^+D_8^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_3^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_1,C_4,D_9)} = \\
& +B_1^+\Phi_{(A_{14},C_4,D_9)} \\
& +A_{14}^+C_4^+D_9^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_4^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_1,C_4,D_{10})} = \\
& +B_1^+\Phi_{(A_{14},C_4,D_{10})} \\
& +A_{14}^+C_4^+D_{10}^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_4^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_1,C_6,D_{11})} = \\
& +B_1^+\Phi_{(A_{14},C_6,D_{11})} \\
& +A_{14}^+C_6^+D_{11}^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_6^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_1,C_6,D_{12})} = \\
& +B_1^+\Phi_{(A_{14},C_6,D_{12})} \\
& +A_{14}^+C_6^+D_{12}^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_6^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_1,C_7,D_1)} = \\
& +B_1^+\Phi_{(A_{14},C_7,D_1)} \\
& +D_1^+\Phi_{(A_{14},B_1,C_7)} \\
& +A_{14}^+C_7^+\Phi_{(B_1,D_1)} \\
& +B_1^+D_1^+\Phi_{(A_{14},C_7)}
\end{aligned}$$

$$\begin{aligned}
& +A_{14}^+B_1^+C_7^+\Phi_{(D_1,)} \\
& +A_{14}^+C_7^+D_1^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_7^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_1,C_7,D_2)} = \\
& +B_1^+\Phi_{(A_{14},C_7,D_2)} \\
& +D_2^+\Phi_{(A_{14},B_1,C_7)} \\
& +A_{14}^+C_7^+\Phi_{(B_1,D_2)} \\
& +B_1^+D_2^+\Phi_{(A_{14},C_7)} \\
& +A_{14}^+B_1^+C_7^+\Phi_{(D_2,)} \\
& +A_{14}^+C_7^+D_2^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_7^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_1,C_7,D_3)} = \\
& +B_1^+\Phi_{(A_{14},C_7,D_3)} \\
& +D_3^+\Phi_{(A_{14},B_1,C_7)} \\
& +A_{14}^+C_7^+\Phi_{(B_1,D_3)} \\
& +B_1^+D_3^+\Phi_{(A_{14},C_7)} \\
& +A_{14}^+B_1^+C_7^+\Phi_{(D_3,)} \\
& +A_{14}^+C_7^+D_3^+\Phi_{(B_1,)} \\
& +A_{14}^+B_1^+C_7^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_1,C_8,D_1)} = \\
& +B_1^+\Phi_{(A_{14},C_8,D_1)} \\
& +D_1^+\Phi_{(A_{14},B_1,C_8)} \\
& +A_{14}^+C_8^+\Phi_{(B_1,D_1)} \\
& +B_1^+D_1^+\Phi_{(A_{14},C_8)} \\
& +A_{14}^+B_1^+C_8^+\Phi_{(D_1,)} \\
& +A_{14}^+C_8^+D_1^+\Phi_{(B_1,)}
\end{aligned}$$

$$+A_{14}^+B_1^+C_8^+D_1^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_1,C_8,D_2)} =$$

$$+B_1^+\Phi_{(A_{14},C_8,D_2)} \\$$

$$+D_2^+\Phi_{(A_{14},B_1,C_8)} \\$$

$$+A_{14}^+C_8^+\Phi_{(B_1,D_2)} \\$$

$$+B_1^+D_2^+\Phi_{(A_{14},C_8)} \\$$

$$+A_{14}^+B_1^+C_8^+\Phi_{(D_2,)} \\$$

$$+A_{14}^+C_8^+D_2^+\Phi_{(B_1,)} \\$$

$$+A_{14}^+B_1^+C_8^+D_2^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_1,C_8,D_3)} =$$

$$+B_1^+\Phi_{(A_{14},C_8,D_3)} \\$$

$$+D_3^+\Phi_{(A_{14},B_1,C_8)} \\$$

$$+A_{14}^+C_8^+\Phi_{(B_1,D_3)} \\$$

$$+B_1^+D_3^+\Phi_{(A_{14},C_8)} \\$$

$$+A_{14}^+B_1^+C_8^+\Phi_{(D_3,)} \\$$

$$+A_{14}^+C_8^+D_3^+\Phi_{(B_1,)} \\$$

$$+A_{14}^+B_1^+C_8^+D_3^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_1,C_9,D_4)} =$$

$$+B_1^+\Phi_{(A_{14},C_9,D_4)} \\$$

$$+A_{14}^+C_9^+D_4^+\Phi_{(B_1,)} \\$$

$$+A_{14}^+B_1^+C_9^+D_4^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_1,C_{10},D_4)} =$$

$$+B_1^+\Phi_{(A_{14},C_{10},D_4)} \\$$

$$+A_{14}^+C_{10}^+D_4^+\Phi_{(B_1,)} \\$$

$$+A_{14}^+B_1^+C_{10}^+D_4^+\Phi_{()} \\$$

$$\begin{aligned}
&\Phi_{(A_{14},B_1,C_{11},D_6)} = \\
&+B_1^+\Phi_{(A_{14},C_{11},D_6)} \\
&+A_{14}^+C_{11}^+D_6^+\Phi_{(B_1,)} \\
&+A_{14}^+B_1^+C_{11}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_1,C_{12},D_6)} = \\
&+B_1^+\Phi_{(A_{14},C_{12},D_6)} \\
&+A_{14}^+C_{12}^+D_6^+\Phi_{(B_1,)} \\
&+A_{14}^+B_1^+C_{12}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_2,C_1,D_7)} = \\
&+B_2^+\Phi_{(A_{14},C_1,D_7)} \\
&+C_1^+\Phi_{(A_{14},B_2,D_7)} \\
&+A_{14}^+D_7^+\Phi_{(B_2,C_1)} \\
&+B_2^+C_1^+\Phi_{(A_{14},D_7)} \\
&+A_{14}^+B_2^+D_7^+\Phi_{(C_1,)} \\
&+A_{14}^+C_1^+D_7^+\Phi_{(B_2,)} \\
&+A_{14}^+B_2^+C_1^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_2,C_1,D_8)} = \\
&+B_2^+\Phi_{(A_{14},C_1,D_8)} \\
&+C_1^+\Phi_{(A_{14},B_2,D_8)} \\
&+A_{14}^+D_8^+\Phi_{(B_2,C_1)} \\
&+B_2^+C_1^+\Phi_{(A_{14},D_8)} \\
&+A_{14}^+B_2^+D_8^+\Phi_{(C_1,)} \\
&+A_{14}^+C_1^+D_8^+\Phi_{(B_2,)} \\
&+A_{14}^+B_2^+C_1^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_2,C_2,D_7)} = \\
&+B_2^+\Phi_{(A_{14},C_2,D_7)} \\
&+C_2^+\Phi_{(A_{14},B_2,D_7)} \\
&+A_{14}^+D_7^+\Phi_{(B_2,C_2)} \\
&+B_2^+C_2^+\Phi_{(A_{14},D_7)} \\
&+A_{14}^+B_2^+D_7^+\Phi_{(C_2,)} \\
&+A_{14}^+C_2^+D_7^+\Phi_{(B_2,)} \\
&+A_{14}^+B_2^+C_2^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_2,C_2,D_8)} = \\
&+B_2^+\Phi_{(A_{14},C_2,D_8)} \\
&+C_2^+\Phi_{(A_{14},B_2,D_8)} \\
&+A_{14}^+D_8^+\Phi_{(B_2,C_2)} \\
&+B_2^+C_2^+\Phi_{(A_{14},D_8)} \\
&+A_{14}^+B_2^+D_8^+\Phi_{(C_2,)} \\
&+A_{14}^+C_2^+D_8^+\Phi_{(B_2,)} \\
&+A_{14}^+B_2^+C_2^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_2,C_3,D_7)} = \\
&+B_2^+\Phi_{(A_{14},C_3,D_7)} \\
&+C_3^+\Phi_{(A_{14},B_2,D_7)} \\
&+A_{14}^+D_7^+\Phi_{(B_2,C_3)} \\
&+B_2^+C_3^+\Phi_{(A_{14},D_7)} \\
&+A_{14}^+B_2^+D_7^+\Phi_{(C_3,)} \\
&+A_{14}^+C_3^+D_7^+\Phi_{(B_2,)} \\
&+A_{14}^+B_2^+C_3^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_2,C_3,D_8)} = \\
&+B_2^+\Phi_{(A_{14},C_3,D_8)}
\end{aligned}$$

$$\begin{aligned}
& +C_3^+ \Phi_{(A_{14}, B_2, D_8)} \\
& +A_{14}^+ D_8^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_{14}, D_8)} \\
& +A_{14}^+ B_2^+ D_8^+ \Phi_{(C_3,)} \\
& +A_{14}^+ C_3^+ D_8^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_4, D_9)} = \\
& +B_2^+ \Phi_{(A_{14}, C_4, D_9)} \\
& +A_{14}^+ C_4^+ D_9^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_4, D_{10})} = \\
& +B_2^+ \Phi_{(A_{14}, C_4, D_{10})} \\
& +A_{14}^+ C_4^+ D_{10}^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_6, D_{11})} = \\
& +B_2^+ \Phi_{(A_{14}, C_6, D_{11})} \\
& +A_{14}^+ C_6^+ D_{11}^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_6, D_{12})} = \\
& +B_2^+ \Phi_{(A_{14}, C_6, D_{12})} \\
& +A_{14}^+ C_6^+ D_{12}^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_7, D_1)} = \\
& +B_2^+ \Phi_{(A_{14}, C_7, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_{14}, B_2, C_7)} \\
& +A_{14}^+ C_7^+ \Phi_{(B_2, D_1)} \\
& +B_2^+ D_1^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_2^+ C_7^+ \Phi_{(D_1,)} \\
& +A_{14}^+ C_7^+ D_1^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_7^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_7, D_2)} = \\
& +B_2^+ \Phi_{(A_{14}, C_7, D_2)} \\
& +D_2^+ \Phi_{(A_{14}, B_2, C_7)} \\
& +A_{14}^+ C_7^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_2^+ C_7^+ \Phi_{(D_2,)} \\
& +A_{14}^+ C_7^+ D_2^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_7, D_3)} = \\
& +B_2^+ \Phi_{(A_{14}, C_7, D_3)} \\
& +D_3^+ \Phi_{(A_{14}, B_2, C_7)} \\
& +A_{14}^+ C_7^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_2^+ C_7^+ \Phi_{(D_3,)} \\
& +A_{14}^+ C_7^+ D_3^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_8, D_1)} = \\
& +B_2^+ \Phi_{(A_{14}, C_8, D_1)} \\
& +D_1^+ \Phi_{(A_{14}, B_2, C_8)} \\
& +A_{14}^+ C_8^+ \Phi_{(B_2, D_1)}
\end{aligned}$$

$$\begin{aligned}
& +B_2^+ D_1^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_2^+ C_8^+ \Phi_{(D_1,)} \\
& +A_{14}^+ C_8^+ D_1^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_8, D_2)} = \\
& +B_2^+ \Phi_{(A_{14}, C_8, D_2)} \\
& +D_2^+ \Phi_{(A_{14}, B_2, C_8)} \\
& +A_{14}^+ C_8^+ \Phi_{(B_2, D_2)} \\
& +B_2^+ D_2^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_2^+ C_8^+ \Phi_{(D_2,)} \\
& +A_{14}^+ C_8^+ D_2^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_8, D_3)} = \\
& +B_2^+ \Phi_{(A_{14}, C_8, D_3)} \\
& +D_3^+ \Phi_{(A_{14}, B_2, C_8)} \\
& +A_{14}^+ C_8^+ \Phi_{(B_2, D_3)} \\
& +B_2^+ D_3^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_2^+ C_8^+ \Phi_{(D_3,)} \\
& +A_{14}^+ C_8^+ D_3^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_9, D_4)} = \\
& +B_2^+ \Phi_{(A_{14}, C_9, D_4)} \\
& +A_{14}^+ C_9^+ D_4^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{14}, B_2, C_{10}, D_4)} =$$

$$\begin{aligned}
& +B_2^+ \Phi_{(A_{14}, C_{10}, D_4)} \\
& +A_{14}^+ C_{10}^+ D_4^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_{10}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_{11}, D_6)} = \\
& +B_2^+ \Phi_{(A_{14}, C_{11}, D_6)} \\
& +A_{14}^+ C_{11}^+ D_6^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_{11}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_2, C_{12}, D_6)} = \\
& +B_2^+ \Phi_{(A_{14}, C_{12}, D_6)} \\
& +A_{14}^+ C_{12}^+ D_6^+ \Phi_{(B_2,)} \\
& +A_{14}^+ B_2^+ C_{12}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_1, D_7)} = \\
& +B_3^+ \Phi_{(A_{14}, C_1, D_7)} \\
& +C_1^+ \Phi_{(A_{14}, B_3, D_7)} \\
& +A_{14}^+ D_7^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_{14}, D_7)} \\
& +A_{14}^+ B_3^+ D_7^+ \Phi_{(C_1,)} \\
& +A_{14}^+ C_1^+ D_7^+ \Phi_{(B_3,)} \\
& +A_{14}^+ B_3^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_1, D_8)} = \\
& +B_3^+ \Phi_{(A_{14}, C_1, D_8)} \\
& +C_1^+ \Phi_{(A_{14}, B_3, D_8)} \\
& +A_{14}^+ D_8^+ \Phi_{(B_3, C_1)} \\
& +B_3^+ C_1^+ \Phi_{(A_{14}, D_8)} \\
& +A_{14}^+ B_3^+ D_8^+ \Phi_{(C_1,)}
\end{aligned}$$

$$\begin{aligned}
& +A_{14}^+C_1^+D_8^+\Phi_{(B_3,)} \\
& +A_{14}^+B_3^+C_1^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_3,C_2,D_7)} = \\
& +B_3^+\Phi_{(A_{14},C_2,D_7)} \\
& +C_2^+\Phi_{(A_{14},B_3,D_7)} \\
& +A_{14}^+D_7^+\Phi_{(B_3,C_2)} \\
& +B_3^+C_2^+\Phi_{(A_{14},D_7)} \\
& +A_{14}^+B_3^+D_7^+\Phi_{(C_2,)} \\
& +A_{14}^+C_2^+D_7^+\Phi_{(B_3,)} \\
& +A_{14}^+B_3^+C_2^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_3,C_2,D_8)} = \\
& +B_3^+\Phi_{(A_{14},C_2,D_8)} \\
& +C_2^+\Phi_{(A_{14},B_3,D_8)} \\
& +A_{14}^+D_8^+\Phi_{(B_3,C_2)} \\
& +B_3^+C_2^+\Phi_{(A_{14},D_8)} \\
& +A_{14}^+B_3^+D_8^+\Phi_{(C_2,)} \\
& +A_{14}^+C_2^+D_8^+\Phi_{(B_3,)} \\
& +A_{14}^+B_3^+C_2^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_3,C_3,D_7)} = \\
& +B_3^+\Phi_{(A_{14},C_3,D_7)} \\
& +C_3^+\Phi_{(A_{14},B_3,D_7)} \\
& +A_{14}^+D_7^+\Phi_{(B_3,C_3)} \\
& +B_3^+C_3^+\Phi_{(A_{14},D_7)} \\
& +A_{14}^+B_3^+D_7^+\Phi_{(C_3,)} \\
& +A_{14}^+C_3^+D_7^+\Phi_{(B_3,)} \\
& +A_{14}^+B_3^+C_3^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_3, D_8)} = \\
& + B_3^+ \Phi_{(A_{14}, C_3, D_8)} \\
& + C_3^+ \Phi_{(A_{14}, B_3, D_8)} \\
& + A_{14}^+ D_8^+ \Phi_{(B_3, C_3)} \\
& + B_3^+ C_3^+ \Phi_{(A_{14}, D_8)} \\
& + A_{14}^+ B_3^+ D_8^+ \Phi_{(C_3,)} \\
& + A_{14}^+ C_3^+ D_8^+ \Phi_{(B_3,)} \\
& + A_{14}^+ B_3^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_4, D_9)} = \\
& + B_3^+ \Phi_{(A_{14}, C_4, D_9)} \\
& + A_{14}^+ C_4^+ D_9^+ \Phi_{(B_3,)} \\
& + A_{14}^+ B_3^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_4, D_{10})} = \\
& + B_3^+ \Phi_{(A_{14}, C_4, D_{10})} \\
& + A_{14}^+ C_4^+ D_{10}^+ \Phi_{(B_3,)} \\
& + A_{14}^+ B_3^+ C_4^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_6, D_{11})} = \\
& + B_3^+ \Phi_{(A_{14}, C_6, D_{11})} \\
& + A_{14}^+ C_6^+ D_{11}^+ \Phi_{(B_3,)} \\
& + A_{14}^+ B_3^+ C_6^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_6, D_{12})} = \\
& + B_3^+ \Phi_{(A_{14}, C_6, D_{12})} \\
& + A_{14}^+ C_6^+ D_{12}^+ \Phi_{(B_3,)} \\
& + A_{14}^+ B_3^+ C_6^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_7, D_1)} = \\
& + B_3^+ \Phi_{(A_{14}, C_7, D_1)} \\
& + D_1^+ \Phi_{(A_{14}, B_3, C_7)} \\
& + A_{14}^+ C_7^+ \Phi_{(B_3, D_1)} \\
& + B_3^+ D_1^+ \Phi_{(A_{14}, C_7)} \\
& + A_{14}^+ B_3^+ C_7^+ \Phi_{(D_1,)} \\
& + A_{14}^+ C_7^+ D_1^+ \Phi_{(B_3,)} \\
& + A_{14}^+ B_3^+ C_7^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_7, D_2)} = \\
& + B_3^+ \Phi_{(A_{14}, C_7, D_2)} \\
& + D_2^+ \Phi_{(A_{14}, B_3, C_7)} \\
& + A_{14}^+ C_7^+ \Phi_{(B_3, D_2)} \\
& + B_3^+ D_2^+ \Phi_{(A_{14}, C_7)} \\
& + A_{14}^+ B_3^+ C_7^+ \Phi_{(D_2,)} \\
& + A_{14}^+ C_7^+ D_2^+ \Phi_{(B_3,)} \\
& + A_{14}^+ B_3^+ C_7^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_7, D_3)} = \\
& + B_3^+ \Phi_{(A_{14}, C_7, D_3)} \\
& + D_3^+ \Phi_{(A_{14}, B_3, C_7)} \\
& + A_{14}^+ C_7^+ \Phi_{(B_3, D_3)} \\
& + B_3^+ D_3^+ \Phi_{(A_{14}, C_7)} \\
& + A_{14}^+ B_3^+ C_7^+ \Phi_{(D_3,)} \\
& + A_{14}^+ C_7^+ D_3^+ \Phi_{(B_3,)} \\
& + A_{14}^+ B_3^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{14}, B_3, C_8, D_1)} =$$

$$\begin{aligned}
& +B_3^+ \Phi_{(A_{14}, C_8, D_1)} \\
& +D_1^+ \Phi_{(A_{14}, B_3, C_8)} \\
& +A_{14}^+ C_8^+ \Phi_{(B_3, D_1)} \\
& +B_3^+ D_1^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_3^+ C_8^+ \Phi_{(D_1,)} \\
& +A_{14}^+ C_8^+ D_1^+ \Phi_{(B_3,)} \\
& +A_{14}^+ B_3^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_8, D_2)} = \\
& +B_3^+ \Phi_{(A_{14}, C_8, D_2)} \\
& +D_2^+ \Phi_{(A_{14}, B_3, C_8)} \\
& +A_{14}^+ C_8^+ \Phi_{(B_3, D_2)} \\
& +B_3^+ D_2^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_3^+ C_8^+ \Phi_{(D_2,)} \\
& +A_{14}^+ C_8^+ D_2^+ \Phi_{(B_3,)} \\
& +A_{14}^+ B_3^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_8, D_3)} = \\
& +B_3^+ \Phi_{(A_{14}, C_8, D_3)} \\
& +D_3^+ \Phi_{(A_{14}, B_3, C_8)} \\
& +A_{14}^+ C_8^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_3^+ C_8^+ \Phi_{(D_3,)} \\
& +A_{14}^+ C_8^+ D_3^+ \Phi_{(B_3,)} \\
& +A_{14}^+ B_3^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_3, C_9, D_4)} = \\
& +B_3^+ \Phi_{(A_{14}, C_9, D_4)} \\
& +A_{14}^+ C_9^+ D_4^+ \Phi_{(B_3,)}
\end{aligned}$$

$$+A_{14}^+B_3^+C_9^+D_4^+\Phi_{()}\\$$

$$\Phi_{(A_{14},B_3,C_{10},D_4)} =$$

$$+B_3^+\Phi_{(A_{14},C_{10},D_4)}\\$$

$$+A_{14}^+C_{10}^+D_4^+\Phi_{(B_3,)}\\$$

$$+A_{14}^+B_3^+C_{10}^+D_4^+\Phi_{()}\\$$

$$\Phi_{(A_{14},B_3,C_{11},D_6)} =$$

$$+B_3^+\Phi_{(A_{14},C_{11},D_6)}\\$$

$$+A_{14}^+C_{11}^+D_6^+\Phi_{(B_3,)}\\$$

$$+A_{14}^+B_3^+C_{11}^+D_6^+\Phi_{()}\\$$

$$\Phi_{(A_{14},B_3,C_{12},D_6)} =$$

$$+B_3^+\Phi_{(A_{14},C_{12},D_6)}\\$$

$$+A_{14}^+C_{12}^+D_6^+\Phi_{(B_3,)}\\$$

$$+A_{14}^+B_3^+C_{12}^+D_6^+\Phi_{()}\\$$

$$\Phi_{(A_{14},B_4,C_1,D_9)} =$$

$$+C_1^+\Phi_{(A_{14},B_4,D_9)}\\$$

$$+A_{14}^+B_4^+D_9^+\Phi_{(C_1,)}\\$$

$$+A_{14}^+B_4^+C_1^+D_9^+\Phi_{()}\\$$

$$\Phi_{(A_{14},B_4,C_1,D_{10})} =$$

$$+C_1^+\Phi_{(A_{14},B_4,D_{10})}\\$$

$$+A_{14}^+B_4^+D_{10}^+\Phi_{(C_1,)}\\$$

$$+A_{14}^+B_4^+C_1^+D_{10}^+\Phi_{()}\\$$

$$\Phi_{(A_{14},B_4,C_2,D_9)} =$$

$$+C_2^+\Phi_{(A_{14},B_4,D_9)}\\$$

$$+A_{14}^+B_4^+D_9^+\Phi_{(C_2,)}$$

$$+A_{14}^+B_4^+C_2^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{14},B_4,C_2,D_{10})} =$$

$$+C_2^+\Phi_{(A_{14},B_4,D_{10})}$$

$$+A_{14}^+B_4^+D_{10}^+\Phi_{(C_2,)}$$

$$+A_{14}^+B_4^+C_2^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_4,C_3,D_9)} =$$

$$+C_3^+\Phi_{(A_{14},B_4,D_9)}$$

$$+A_{14}^+B_4^+D_9^+\Phi_{(C_3,)}$$

$$+A_{14}^+B_4^+C_3^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{14},B_4,C_3,D_{10})} =$$

$$+C_3^+\Phi_{(A_{14},B_4,D_{10})}$$

$$+A_{14}^+B_4^+D_{10}^+\Phi_{(C_3,)}$$

$$+A_{14}^+B_4^+C_3^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_4,C_5,D_7)} =$$

$$+A_{14}^+D_7^+\Phi_{(B_4,C_5)}$$

$$+B_4^+C_5^+\Phi_{(A_{14},D_7)}$$

$$+A_{14}^+B_4^+C_5^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{14},B_4,C_5,D_8)} =$$

$$+A_{14}^+D_8^+\Phi_{(B_4,C_5)}$$

$$+B_4^+C_5^+\Phi_{(A_{14},D_8)}$$

$$+A_{14}^+B_4^+C_5^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{14},B_4,C_6,D_{13})} =$$

$$+A_{14}^+B_4^+C_6^+D_{13}^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_4,C_6,D_{14})} = \\ +A_{14}^+B_4^+C_6^+D_{14}^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_4,C_7,D_5)} = \\ +A_{14}^+C_7^+\Phi_{(B_4,D_5)} \\ +B_4^+D_5^+\Phi_{(A_{14},C_7)} \\ +A_{14}^+B_4^+C_7^+D_5^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_4,C_8,D_5)} = \\ +A_{14}^+C_8^+\Phi_{(B_4,D_5)} \\ +B_4^+D_5^+\Phi_{(A_{14},C_8)} \\ +A_{14}^+B_4^+C_8^+D_5^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_4,C_9,D_1)} = \\ +D_1^+\Phi_{(A_{14},B_4,C_9)} \\ +A_{14}^+B_4^+C_9^+\Phi_{(D_1,)} \\ +A_{14}^+B_4^+C_9^+D_1^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_4,C_9,D_2)} = \\ +D_2^+\Phi_{(A_{14},B_4,C_9)} \\ +A_{14}^+B_4^+C_9^+\Phi_{(D_2,)} \\ +A_{14}^+B_4^+C_9^+D_2^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_4,C_9,D_3)} = \\ +D_3^+\Phi_{(A_{14},B_4,C_9)} \\ +A_{14}^+B_4^+C_9^+\Phi_{(D_3,)} \\ +A_{14}^+B_4^+C_9^+D_3^+\Phi_{()} \\$$

$$\begin{aligned}
\Phi_{(A_{14}, B_4, C_{10}, D_1)} = & \\
& + D_1^+ \Phi_{(A_{14}, B_4, C_{10})} \\
& + A_{14}^+ B_4^+ C_{10}^+ \Phi_{(D_1,)} \\
& + A_{14}^+ B_4^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_4, C_{10}, D_2)} = & \\
& + D_2^+ \Phi_{(A_{14}, B_4, C_{10})} \\
& + A_{14}^+ B_4^+ C_{10}^+ \Phi_{(D_2,)} \\
& + A_{14}^+ B_4^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_4, C_{10}, D_3)} = & \\
& + D_3^+ \Phi_{(A_{14}, B_4, C_{10})} \\
& + A_{14}^+ B_4^+ C_{10}^+ \Phi_{(D_3,)} \\
& + A_{14}^+ B_4^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_4, C_{13}, D_6)} = & \\
& + A_{14}^+ B_4^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_4, C_{14}, D_6)} = & \\
& + A_{14}^+ B_4^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_5, C_4, D_7)} = & \\
& + A_{14}^+ D_7^+ \Phi_{(B_5, C_4)} \\
& + B_5^+ C_4^+ \Phi_{(A_{14}, D_7)} \\
& + A_{14}^+ B_5^+ C_4^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_5, C_4, D_8)} = & \\
& + A_{14}^+ D_8^+ \Phi_{(B_5, C_4)}
\end{aligned}$$

$$\begin{aligned}
& +B_5^+ C_4^+ \Phi_{(A_{14}, D_8)} \\
& +A_{14}^+ B_5^+ C_4^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_5, C_7, D_4)} = \\
& +A_{14}^+ C_7^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_5^+ C_7^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_5, C_8, D_4)} = \\
& +A_{14}^+ C_8^+ \Phi_{(B_5, D_4)} \\
& +B_5^+ D_4^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_5^+ C_8^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_6, C_1, D_{11})} = \\
& +C_1^+ \Phi_{(A_{14}, B_6, D_{11})} \\
& +A_{14}^+ B_6^+ D_{11}^+ \Phi_{(C_1,)} \\
& +A_{14}^+ B_6^+ C_1^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_6, C_1, D_{12})} = \\
& +C_1^+ \Phi_{(A_{14}, B_6, D_{12})} \\
& +A_{14}^+ B_6^+ D_{12}^+ \Phi_{(C_1,)} \\
& +A_{14}^+ B_6^+ C_1^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_6, C_2, D_{11})} = \\
& +C_2^+ \Phi_{(A_{14}, B_6, D_{11})} \\
& +A_{14}^+ B_6^+ D_{11}^+ \Phi_{(C_2,)} \\
& +A_{14}^+ B_6^+ C_2^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{14}, B_6, C_2, D_{12})} =$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_{14}, B_6, D_{12})} \\
& +A_{14}^+ B_6^+ D_{12}^+ \Phi_{(C_2,)} \\
& +A_{14}^+ B_6^+ C_2^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_6, C_3, D_{11})} = \\
& +C_3^+ \Phi_{(A_{14}, B_6, D_{11})} \\
& +A_{14}^+ B_6^+ D_{11}^+ \Phi_{(C_3,)} \\
& +A_{14}^+ B_6^+ C_3^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_6, C_3, D_{12})} = \\
& +C_3^+ \Phi_{(A_{14}, B_6, D_{12})} \\
& +A_{14}^+ B_6^+ D_{12}^+ \Phi_{(C_3,)} \\
& +A_{14}^+ B_6^+ C_3^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_6, C_4, D_{13})} = \\
& +A_{14}^+ B_6^+ C_4^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_6, C_4, D_{14})} = \\
& +A_{14}^+ B_6^+ C_4^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_6, C_7, D_{15})} = \\
& +A_{14}^+ C_7^+ \Phi_{(B_6, D_{15})} \\
& +B_6^+ D_{15}^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_6^+ C_7^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_6, C_8, D_{15})} = \\
& +A_{14}^+ C_8^+ \Phi_{(B_6, D_{15})} \\
& +B_6^+ D_{15}^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_6^+ C_8^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_6, C_{11}, D_1)} = & \\
& + D_1^+ \Phi_{(A_{14}, B_6, C_{11})} \\
& + A_{14}^+ B_6^+ C_{11}^+ \Phi_{(D_1,)} \\
& + A_{14}^+ B_6^+ C_{11}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_6, C_{11}, D_2)} = & \\
& + D_2^+ \Phi_{(A_{14}, B_6, C_{11})} \\
& + A_{14}^+ B_6^+ C_{11}^+ \Phi_{(D_2,)} \\
& + A_{14}^+ B_6^+ C_{11}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_6, C_{11}, D_3)} = & \\
& + D_3^+ \Phi_{(A_{14}, B_6, C_{11})} \\
& + A_{14}^+ B_6^+ C_{11}^+ \Phi_{(D_3,)} \\
& + A_{14}^+ B_6^+ C_{11}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_6, C_{12}, D_1)} = & \\
& + D_1^+ \Phi_{(A_{14}, B_6, C_{12})} \\
& + A_{14}^+ B_6^+ C_{12}^+ \Phi_{(D_1,)} \\
& + A_{14}^+ B_6^+ C_{12}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_6, C_{12}, D_2)} = & \\
& + D_2^+ \Phi_{(A_{14}, B_6, C_{12})} \\
& + A_{14}^+ B_6^+ C_{12}^+ \Phi_{(D_2,)} \\
& + A_{14}^+ B_6^+ C_{12}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_6, C_{12}, D_3)} = & \\
& + D_3^+ \Phi_{(A_{14}, B_6, C_{12})} \\
& + A_{14}^+ B_6^+ C_{12}^+ \Phi_{(D_3,)}
\end{aligned}$$

$$+A_{14}^+B_6^+C_{12}^+D_3^+\Phi_{()}$$

$$\Phi_{(A_{14},B_6,C_{13},D_4)} =$$

$$+A_{14}^+B_6^+C_{13}^+D_4^+\Phi_{()}$$

$$\Phi_{(A_{14},B_6,C_{14},D_4)} =$$

$$+A_{14}^+B_6^+C_{14}^+D_4^+\Phi_{()}$$

$$\Phi_{(A_{14},B_6,C_{15},D_7)} =$$

$$+A_{14}^+D_7^+\Phi_{(B_6,C_{15})}$$

$$+B_6^+C_{15}^+\Phi_{(A_{14},D_7)}$$

$$+A_{14}^+B_6^+C_{15}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{14},B_6,C_{15},D_8)} =$$

$$+A_{14}^+D_8^+\Phi_{(B_6,C_{15})}$$

$$+B_6^+C_{15}^+\Phi_{(A_{14},D_8)}$$

$$+A_{14}^+B_6^+C_{15}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{14},B_7,C_1,D_1)} =$$

$$+C_1^+\Phi_{(A_{14},B_7,D_1)}$$

$$+D_1^+\Phi_{(A_{14},B_7,C_1)}$$

$$+A_{14}^+B_7^+\Phi_{(C_1,D_1)}$$

$$+C_1^+D_1^+\Phi_{(A_{14},B_7)}$$

$$+A_{14}^+B_7^+C_1^+\Phi_{(D_1)}$$

$$+A_{14}^+B_7^+D_1^+\Phi_{(C_1)}$$

$$+A_{14}^+B_7^+C_1^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{14},B_7,C_1,D_2)} =$$

$$+C_1^+\Phi_{(A_{14},B_7,D_2)}$$

$$\begin{aligned}
& +D_2^+ \Phi_{(A_{14}, B_7, C_1)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_1, D_2)} \\
& +C_1^+ D_2^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_1^+ \Phi_{(D_2,)} \\
& +A_{14}^+ B_7^+ D_2^+ \Phi_{(C_1,)} \\
& +A_{14}^+ B_7^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_1, D_3)} = \\
& +C_1^+ \Phi_{(A_{14}, B_7, D_3)} \\
& +D_3^+ \Phi_{(A_{14}, B_7, C_1)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_1, D_3)} \\
& +C_1^+ D_3^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_1^+ \Phi_{(D_3,)} \\
& +A_{14}^+ B_7^+ D_3^+ \Phi_{(C_1,)} \\
& +A_{14}^+ B_7^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_2, D_1)} = \\
& +C_2^+ \Phi_{(A_{14}, B_7, D_1)} \\
& +D_1^+ \Phi_{(A_{14}, B_7, C_2)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_2, D_1)} \\
& +C_2^+ D_1^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_2^+ \Phi_{(D_1,)} \\
& +A_{14}^+ B_7^+ D_1^+ \Phi_{(C_2,)} \\
& +A_{14}^+ B_7^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_2, D_2)} = \\
& +C_2^+ \Phi_{(A_{14}, B_7, D_2)} \\
& +D_2^+ \Phi_{(A_{14}, B_7, C_2)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_2, D_2)}
\end{aligned}$$

$$\begin{aligned}
& +C_2^+ D_2^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_2^+ \Phi_{(D_2,)} \\
& +A_{14}^+ B_7^+ D_2^+ \Phi_{(C_2,)} \\
& +A_{14}^+ B_7^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_2, D_3)} = \\
& +C_2^+ \Phi_{(A_{14}, B_7, D_3)} \\
& +D_3^+ \Phi_{(A_{14}, B_7, C_2)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_2^+ \Phi_{(D_3,)} \\
& +A_{14}^+ B_7^+ D_3^+ \Phi_{(C_2,)} \\
& +A_{14}^+ B_7^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_{14}, B_7, D_1)} \\
& +D_1^+ \Phi_{(A_{14}, B_7, C_3)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_3, D_1)} \\
& +C_3^+ D_1^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_3^+ \Phi_{(D_1,)} \\
& +A_{14}^+ B_7^+ D_1^+ \Phi_{(C_3,)} \\
& +A_{14}^+ B_7^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_{14}, B_7, D_2)} \\
& +D_2^+ \Phi_{(A_{14}, B_7, C_3)} \\
& +A_{14}^+ B_7^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_3^+ \Phi_{(D_2,)}
\end{aligned}$$

$$\begin{aligned}
& +A_{14}^+B_7^+D_2^+\Phi_{(C_3,)} \\
& +A_{14}^+B_7^+C_3^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_7,C_3,D_3)} = \\
& +C_3^+\Phi_{(A_{14},B_7,D_3)} \\
& +D_3^+\Phi_{(A_{14},B_7,C_3)} \\
& +A_{14}^+B_7^+\Phi_{(C_3,D_3)} \\
& +C_3^+D_3^+\Phi_{(A_{14},B_7)} \\
& +A_{14}^+B_7^+C_3^+\Phi_{(D_3,)} \\
& +A_{14}^+B_7^+D_3^+\Phi_{(C_3,)} \\
& +A_{14}^+B_7^+C_3^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_7,C_4,D_5)} = \\
& +A_{14}^+B_7^+\Phi_{(C_4,D_5)} \\
& +C_4^+D_5^+\Phi_{(A_{14},B_7)} \\
& +A_{14}^+B_7^+C_4^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_7,C_5,D_4)} = \\
& +A_{14}^+B_7^+\Phi_{(C_5,D_4)} \\
& +C_5^+D_4^+\Phi_{(A_{14},B_7)} \\
& +A_{14}^+B_7^+C_5^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_7,C_6,D_{15})} = \\
& +A_{14}^+B_7^+\Phi_{(C_6,D_{15})} \\
& +C_6^+D_{15}^+\Phi_{(A_{14},B_7)} \\
& +A_{14}^+B_7^+C_6^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_7,C_7,D_{13})} = \\
& +A_{14}^+B_7^+\Phi_{(C_7,D_{13})}
\end{aligned}$$

$$\begin{aligned}
& -A_{14}^+ C_7^+ \Phi_{(B_7, D_{13})} \\
& -B_7^+ D_{13}^+ \Phi_{(A_{14}, C_7)} \\
& +C_7^+ D_{13}^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_7, D_{14})} = \\
& +A_{14}^+ B_7^+ \Phi_{(C_7, D_{14})} \\
& -A_{14}^+ C_7^+ \Phi_{(B_7, D_{14})} \\
& -B_7^+ D_{14}^+ \Phi_{(A_{14}, C_7)} \\
& +C_7^+ D_{14}^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_8, D_{13})} = \\
& +A_{14}^+ B_7^+ \Phi_{(C_8, D_{13})} \\
& -A_{14}^+ C_8^+ \Phi_{(B_7, D_{13})} \\
& -B_7^+ D_{13}^+ \Phi_{(A_{14}, C_8)} \\
& +C_8^+ D_{13}^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_8, D_{14})} = \\
& +A_{14}^+ B_7^+ \Phi_{(C_8, D_{14})} \\
& -A_{14}^+ C_8^+ \Phi_{(B_7, D_{14})} \\
& -B_7^+ D_{14}^+ \Phi_{(A_{14}, C_8)} \\
& +C_8^+ D_{14}^+ \Phi_{(A_{14}, B_7)} \\
& +A_{14}^+ B_7^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_7, C_9, D_{11})} = \\
& +A_{14}^+ B_7^+ \Phi_{(C_9, D_{11})} \\
& +C_9^+ D_{11}^+ \Phi_{(A_{14}, B_7)}
\end{aligned}$$

$$+A_{14}^+B_7^+C_9^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_7,C_9,D_{12})} =$$

$$+A_{14}^+B_7^+\Phi_{(C_9,D_{12})}$$

$$+C_9^+D_{12}^+\Phi_{(A_{14},B_7)}$$

$$+A_{14}^+B_7^+C_9^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_7,C_{10},D_{11})} =$$

$$+A_{14}^+B_7^+\Phi_{(C_{10},D_{11})}$$

$$+C_{10}^+D_{11}^+\Phi_{(A_{14},B_7)}$$

$$+A_{14}^+B_7^+C_{10}^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_7,C_{10},D_{12})} =$$

$$+A_{14}^+B_7^+\Phi_{(C_{10},D_{12})}$$

$$+C_{10}^+D_{12}^+\Phi_{(A_{14},B_7)}$$

$$+A_{14}^+B_7^+C_{10}^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_7,C_{11},D_9)} =$$

$$+A_{14}^+B_7^+\Phi_{(C_{11},D_9)}$$

$$+C_{11}^+D_9^+\Phi_{(A_{14},B_7)}$$

$$+A_{14}^+B_7^+C_{11}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{14},B_7,C_{11},D_{10})} =$$

$$+A_{14}^+B_7^+\Phi_{(C_{11},D_{10})}$$

$$+C_{11}^+D_{10}^+\Phi_{(A_{14},B_7)}$$

$$+A_{14}^+B_7^+C_{11}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_7,C_{12},D_9)} =$$

$$+A_{14}^+B_7^+\Phi_{(C_{12},D_9)}$$

$$\begin{aligned}
& +C_{12}^+D_9^+\Phi_{(A_{14},B_7)} \\
& +A_{14}^+B_7^+C_{12}^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_7,C_{12},D_{10})} = \\
& +A_{14}^+B_7^+\Phi_{(C_{12},D_{10})} \\
& +C_{12}^+D_{10}^+\Phi_{(A_{14},B_7)} \\
& +A_{14}^+B_7^+C_{12}^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_7,C_{13},D_7)} = \\
& +A_{14}^+B_7^+\Phi_{(C_{13},D_7)} \\
& +A_{14}^+D_7^+\Phi_{(B_7,C_{13})} \\
& +B_7^+C_{13}^+\Phi_{(A_{14},D_7)} \\
& +C_{13}^+D_7^+\Phi_{(A_{14},B_7)} \\
& +A_{14}^+B_7^+C_{13}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_7,C_{13},D_8)} = \\
& +A_{14}^+B_7^+\Phi_{(C_{13},D_8)} \\
& +A_{14}^+D_8^+\Phi_{(B_7,C_{13})} \\
& +B_7^+C_{13}^+\Phi_{(A_{14},D_8)} \\
& +C_{13}^+D_8^+\Phi_{(A_{14},B_7)} \\
& +A_{14}^+B_7^+C_{13}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_7,C_{14},D_7)} = \\
& +A_{14}^+B_7^+\Phi_{(C_{14},D_7)} \\
& +A_{14}^+D_7^+\Phi_{(B_7,C_{14})} \\
& +B_7^+C_{14}^+\Phi_{(A_{14},D_7)} \\
& +C_{14}^+D_7^+\Phi_{(A_{14},B_7)} \\
& +A_{14}^+B_7^+C_{14}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_7, C_{14}, D_8)} = \\
&+ A_{14}^+ B_7^+ \Phi_{(C_{14}, D_8)} \\
&+ A_{14}^+ D_8^+ \Phi_{(B_7, C_{14})} \\
&+ B_7^+ C_{14}^+ \Phi_{(A_{14}, D_8)} \\
&+ C_{14}^+ D_8^+ \Phi_{(A_{14}, B_7)} \\
&+ A_{14}^+ B_7^+ C_{14}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_7, C_{15}, D_6)} = \\
&+ A_{14}^+ B_7^+ \Phi_{(C_{15}, D_6)} \\
&+ C_{15}^+ D_6^+ \Phi_{(A_{14}, B_7)} \\
&+ A_{14}^+ B_7^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_1, D_1)} = \\
&+ C_1^+ \Phi_{(A_{14}, B_8, D_1)} \\
&+ D_1^+ \Phi_{(A_{14}, B_8, C_1)} \\
&+ A_{14}^+ B_8^+ \Phi_{(C_1, D_1)} \\
&+ C_1^+ D_1^+ \Phi_{(A_{14}, B_8)} \\
&+ A_{14}^+ B_8^+ C_1^+ \Phi_{(D_1,)} \\
&+ A_{14}^+ B_8^+ D_1^+ \Phi_{(C_1,)} \\
&+ A_{14}^+ B_8^+ C_1^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_1, D_2)} = \\
&+ C_1^+ \Phi_{(A_{14}, B_8, D_2)} \\
&+ D_2^+ \Phi_{(A_{14}, B_8, C_1)} \\
&+ A_{14}^+ B_8^+ \Phi_{(C_1, D_2)} \\
&+ C_1^+ D_2^+ \Phi_{(A_{14}, B_8)} \\
&+ A_{14}^+ B_8^+ C_1^+ \Phi_{(D_2,)} \\
&+ A_{14}^+ B_8^+ D_2^+ \Phi_{(C_1,)} \\
&+ A_{14}^+ B_8^+ C_1^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_1, D_3)} = \\
&+C_1^+ \Phi_{(A_{14}, B_8, D_3)} \\
&+D_3^+ \Phi_{(A_{14}, B_8, C_1)} \\
&+A_{14}^+ B_8^+ \Phi_{(C_1, D_3)} \\
&+C_1^+ D_3^+ \Phi_{(A_{14}, B_8)} \\
&+A_{14}^+ B_8^+ C_1^+ \Phi_{(D_3,)} \\
&+A_{14}^+ B_8^+ D_3^+ \Phi_{(C_1,)} \\
&+A_{14}^+ B_8^+ C_1^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_2, D_1)} = \\
&+C_2^+ \Phi_{(A_{14}, B_8, D_1)} \\
&+D_1^+ \Phi_{(A_{14}, B_8, C_2)} \\
&+A_{14}^+ B_8^+ \Phi_{(C_2, D_1)} \\
&+C_2^+ D_1^+ \Phi_{(A_{14}, B_8)} \\
&+A_{14}^+ B_8^+ C_2^+ \Phi_{(D_1,)} \\
&+A_{14}^+ B_8^+ D_1^+ \Phi_{(C_2,)} \\
&+A_{14}^+ B_8^+ C_2^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_2, D_2)} = \\
&+C_2^+ \Phi_{(A_{14}, B_8, D_2)} \\
&+D_2^+ \Phi_{(A_{14}, B_8, C_2)} \\
&+A_{14}^+ B_8^+ \Phi_{(C_2, D_2)} \\
&+C_2^+ D_2^+ \Phi_{(A_{14}, B_8)} \\
&+A_{14}^+ B_8^+ C_2^+ \Phi_{(D_2,)} \\
&+A_{14}^+ B_8^+ D_2^+ \Phi_{(C_2,)} \\
&+A_{14}^+ B_8^+ C_2^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{14}, B_8, C_2, D_3)} =$$

$$\begin{aligned}
& +C_2^+ \Phi_{(A_{14}, B_8, D_3)} \\
& +D_3^+ \Phi_{(A_{14}, B_8, C_2)} \\
& +A_{14}^+ B_8^+ \Phi_{(C_2, D_3)} \\
& +C_2^+ D_3^+ \Phi_{(A_{14}, B_8)} \\
& +A_{14}^+ B_8^+ C_2^+ \Phi_{(D_3,)} \\
& +A_{14}^+ B_8^+ D_3^+ \Phi_{(C_2,)} \\
& +A_{14}^+ B_8^+ C_2^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_8, C_3, D_1)} = \\
& +C_3^+ \Phi_{(A_{14}, B_8, D_1)} \\
& +D_1^+ \Phi_{(A_{14}, B_8, C_3)} \\
& +A_{14}^+ B_8^+ \Phi_{(C_3, D_1)} \\
& +C_3^+ D_1^+ \Phi_{(A_{14}, B_8)} \\
& +A_{14}^+ B_8^+ C_3^+ \Phi_{(D_1,)} \\
& +A_{14}^+ B_8^+ D_1^+ \Phi_{(C_3,)} \\
& +A_{14}^+ B_8^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_8, C_3, D_2)} = \\
& +C_3^+ \Phi_{(A_{14}, B_8, D_2)} \\
& +D_2^+ \Phi_{(A_{14}, B_8, C_3)} \\
& +A_{14}^+ B_8^+ \Phi_{(C_3, D_2)} \\
& +C_3^+ D_2^+ \Phi_{(A_{14}, B_8)} \\
& +A_{14}^+ B_8^+ C_3^+ \Phi_{(D_2,)} \\
& +A_{14}^+ B_8^+ D_2^+ \Phi_{(C_3,)} \\
& +A_{14}^+ B_8^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_8, C_3, D_3)} = \\
& +C_3^+ \Phi_{(A_{14}, B_8, D_3)} \\
& +D_3^+ \Phi_{(A_{14}, B_8, C_3)}
\end{aligned}$$

$$\begin{aligned}
& +A_{14}^+B_8^+\Phi_{(C_3,D_3)} \\
& +C_3^+D_3^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_3^+\Phi_{(D_3,)} \\
& +A_{14}^+B_8^+D_3^+\Phi_{(C_3,)} \\
& +A_{14}^+B_8^+C_3^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_8,C_4,D_5)} = \\
& +A_{14}^+B_8^+\Phi_{(C_4,D_5)} \\
& +C_4^+D_5^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_4^+D_5^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_8,C_5,D_4)} = \\
& +A_{14}^+B_8^+\Phi_{(C_5,D_4)} \\
& +C_5^+D_4^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_5^+D_4^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_8,C_6,D_{15})} = \\
& +A_{14}^+B_8^+\Phi_{(C_6,D_{15})} \\
& +C_6^+D_{15}^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_6^+D_{15}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_8,C_7,D_{13})} = \\
& +A_{14}^+B_8^+\Phi_{(C_7,D_{13})} \\
& -A_{14}^+C_7^+\Phi_{(B_8,D_{13})} \\
& -B_8^+D_{13}^+\Phi_{(A_{14},C_7)} \\
& +C_7^+D_{13}^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_7^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{14},B_8,C_7,D_{14})} =$$

$$\begin{aligned}
& +A_{14}^+B_8^+\Phi_{(C_7,D_{14})} \\
& -A_{14}^+C_7^+\Phi_{(B_8,D_{14})} \\
& -B_8^+D_{14}^+\Phi_{(A_{14},C_7)} \\
& +C_7^+D_{14}^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_7^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_8,C_8,D_{13})} = \\
& +A_{14}^+B_8^+\Phi_{(C_8,D_{13})} \\
& -A_{14}^+C_8^+\Phi_{(B_8,D_{13})} \\
& -B_8^+D_{13}^+\Phi_{(A_{14},C_8)} \\
& +C_8^+D_{13}^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_8^+D_{13}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_8,C_8,D_{14})} = \\
& +A_{14}^+B_8^+\Phi_{(C_8,D_{14})} \\
& -A_{14}^+C_8^+\Phi_{(B_8,D_{14})} \\
& -B_8^+D_{14}^+\Phi_{(A_{14},C_8)} \\
& +C_8^+D_{14}^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_8^+D_{14}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_8,C_9,D_{11})} = \\
& +A_{14}^+B_8^+\Phi_{(C_9,D_{11})} \\
& +C_9^+D_{11}^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_9^+D_{11}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14},B_8,C_9,D_{12})} = \\
& +A_{14}^+B_8^+\Phi_{(C_9,D_{12})} \\
& +C_9^+D_{12}^+\Phi_{(A_{14},B_8)} \\
& +A_{14}^+B_8^+C_9^+D_{12}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_{10}, D_{11})} = \\
&+ A_{14}^+ B_8^+ \Phi_{(C_{10}, D_{11})} \\
&+ C_{10}^+ D_{11}^+ \Phi_{(A_{14}, B_8)} \\
&+ A_{14}^+ B_8^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_{10}, D_{12})} = \\
&+ A_{14}^+ B_8^+ \Phi_{(C_{10}, D_{12})} \\
&+ C_{10}^+ D_{12}^+ \Phi_{(A_{14}, B_8)} \\
&+ A_{14}^+ B_8^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_{11}, D_9)} = \\
&+ A_{14}^+ B_8^+ \Phi_{(C_{11}, D_9)} \\
&+ C_{11}^+ D_9^+ \Phi_{(A_{14}, B_8)} \\
&+ A_{14}^+ B_8^+ C_{11}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_{11}, D_{10})} = \\
&+ A_{14}^+ B_8^+ \Phi_{(C_{11}, D_{10})} \\
&+ C_{11}^+ D_{10}^+ \Phi_{(A_{14}, B_8)} \\
&+ A_{14}^+ B_8^+ C_{11}^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_{12}, D_9)} = \\
&+ A_{14}^+ B_8^+ \Phi_{(C_{12}, D_9)} \\
&+ C_{12}^+ D_9^+ \Phi_{(A_{14}, B_8)} \\
&+ A_{14}^+ B_8^+ C_{12}^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_8, C_{12}, D_{10})} = \\
&+ A_{14}^+ B_8^+ \Phi_{(C_{12}, D_{10})} \\
&+ C_{12}^+ D_{10}^+ \Phi_{(A_{14}, B_8)}
\end{aligned}$$

$$+A_{14}^+B_8^+C_{12}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_8,C_{13},D_7)} =$$

$$+A_{14}^+B_8^+\Phi_{(C_{13},D_7)}$$

$$+A_{14}^+D_7^+\Phi_{(B_8,C_{13})}$$

$$+B_8^+C_{13}^+\Phi_{(A_{14},D_7)}$$

$$+C_{13}^+D_7^+\Phi_{(A_{14},B_8)}$$

$$+A_{14}^+B_8^+C_{13}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{14},B_8,C_{13},D_8)} =$$

$$+A_{14}^+B_8^+\Phi_{(C_{13},D_8)}$$

$$+A_{14}^+D_8^+\Phi_{(B_8,C_{13})}$$

$$+B_8^+C_{13}^+\Phi_{(A_{14},D_8)}$$

$$+C_{13}^+D_8^+\Phi_{(A_{14},B_8)}$$

$$+A_{14}^+B_8^+C_{13}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{14},B_8,C_{14},D_7)} =$$

$$+A_{14}^+B_8^+\Phi_{(C_{14},D_7)}$$

$$+A_{14}^+D_7^+\Phi_{(B_8,C_{14})}$$

$$+B_8^+C_{14}^+\Phi_{(A_{14},D_7)}$$

$$+C_{14}^+D_7^+\Phi_{(A_{14},B_8)}$$

$$+A_{14}^+B_8^+C_{14}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{14},B_8,C_{14},D_8)} =$$

$$+A_{14}^+B_8^+\Phi_{(C_{14},D_8)}$$

$$+A_{14}^+D_8^+\Phi_{(B_8,C_{14})}$$

$$+B_8^+C_{14}^+\Phi_{(A_{14},D_8)}$$

$$+C_{14}^+D_8^+\Phi_{(A_{14},B_8)}$$

$$+A_{14}^+B_8^+C_{14}^+D_8^+\Phi_{()}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_8, C_{15}, D_6)} = & \\
& + A_{14}^+ B_8^+ \Phi_{(C_{15}, D_6)} \\
& + C_{15}^+ D_6^+ \Phi_{(A_{14}, B_8)} \\
& + A_{14}^+ B_8^+ C_{15}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_9, C_1, D_4)} = & \\
& + C_1^+ \Phi_{(A_{14}, B_9, D_4)} \\
& + A_{14}^+ B_9^+ D_4^+ \Phi_{(C_1,)} \\
& + A_{14}^+ B_9^+ C_1^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_9, C_2, D_4)} = & \\
& + C_2^+ \Phi_{(A_{14}, B_9, D_4)} \\
& + A_{14}^+ B_9^+ D_4^+ \Phi_{(C_2,)} \\
& + A_{14}^+ B_9^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_9, C_3, D_4)} = & \\
& + C_3^+ \Phi_{(A_{14}, B_9, D_4)} \\
& + A_{14}^+ B_9^+ D_4^+ \Phi_{(C_3,)} \\
& + A_{14}^+ B_9^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_9, C_4, D_1)} = & \\
& + D_1^+ \Phi_{(A_{14}, B_9, C_4)} \\
& + A_{14}^+ B_9^+ C_4^+ \Phi_{(D_1,)} \\
& + A_{14}^+ B_9^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_9, C_4, D_2)} = & \\
& + D_2^+ \Phi_{(A_{14}, B_9, C_4)} \\
& + A_{14}^+ B_9^+ C_4^+ \Phi_{(D_2,)}
\end{aligned}$$

$$+A_{14}^+B_9^+C_4^+D_2^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{14},B_9,C_4,D_3)} = \\ +D_3^+\Phi_{(A_{14},B_9,C_4)} \\ +A_{14}^+B_9^+C_4^+\Phi_{(D_3,)} \\ +A_{14}^+B_9^+C_4^+D_3^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{14},B_9,C_7,D_{11})} = \\ -A_{14}^+C_7^+\Phi_{(B_9,D_{11})} \\ -B_9^+D_{11}^+\Phi_{(A_{14},C_7)} \\ +A_{14}^+B_9^+C_7^+D_{11}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{14},B_9,C_7,D_{12})} = \\ -A_{14}^+C_7^+\Phi_{(B_9,D_{12})} \\ -B_9^+D_{12}^+\Phi_{(A_{14},C_7)} \\ +A_{14}^+B_9^+C_7^+D_{12}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{14},B_9,C_8,D_{11})} = \\ -A_{14}^+C_8^+\Phi_{(B_9,D_{11})} \\ -B_9^+D_{11}^+\Phi_{(A_{14},C_8)} \\ +A_{14}^+B_9^+C_8^+D_{11}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{14},B_9,C_8,D_{12})} = \\ -A_{14}^+C_8^+\Phi_{(B_9,D_{12})} \\ -B_9^+D_{12}^+\Phi_{(A_{14},C_8)} \\ +A_{14}^+B_9^+C_8^+D_{12}^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{14},B_9,C_{11},D_7)} = \\ +A_{14}^+D_7^+\Phi_{(B_9,C_{11})} \end{aligned}$$

$$\begin{aligned}
& +B_9^+ C_{11}^+ \Phi_{(A_{14}, D_7)} \\
& +A_{14}^+ B_9^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_9, C_{11}, D_8)} = \\
& +A_{14}^+ D_8^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_{14}, D_8)} \\
& +A_{14}^+ B_9^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_9, C_{12}, D_7)} = \\
& +A_{14}^+ D_7^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_{14}, D_7)} \\
& +A_{14}^+ B_9^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_9, C_{12}, D_8)} = \\
& +A_{14}^+ D_8^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_{14}, D_8)} \\
& +A_{14}^+ B_9^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_{10}, C_1, D_4)} = \\
& +C_1^+ \Phi_{(A_{14}, B_{10}, D_4)} \\
& +A_{14}^+ B_{10}^+ D_4^+ \Phi_{(C_1,)} \\
& +A_{14}^+ B_{10}^+ C_1^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_{10}, C_2, D_4)} = \\
& +C_2^+ \Phi_{(A_{14}, B_{10}, D_4)} \\
& +A_{14}^+ B_{10}^+ D_4^+ \Phi_{(C_2,)} \\
& +A_{14}^+ B_{10}^+ C_2^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{14}, B_{10}, C_3, D_4)} =$$

$$\begin{aligned}
& +C_3^+ \Phi_{(A_{14}, B_{10}, D_4)} \\
& +A_{14}^+ B_{10}^+ D_4^+ \Phi_{(C_3,)} \\
& +A_{14}^+ B_{10}^+ C_3^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{10}, C_4, D_1)} = \\
& +D_1^+ \Phi_{(A_{14}, B_{10}, C_4)} \\
& +A_{14}^+ B_{10}^+ C_4^+ \Phi_{(D_1,)} \\
& +A_{14}^+ B_{10}^+ C_4^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{10}, C_4, D_2)} = \\
& +D_2^+ \Phi_{(A_{14}, B_{10}, C_4)} \\
& +A_{14}^+ B_{10}^+ C_4^+ \Phi_{(D_2,)} \\
& +A_{14}^+ B_{10}^+ C_4^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{10}, C_4, D_3)} = \\
& +D_3^+ \Phi_{(A_{14}, B_{10}, C_4)} \\
& +A_{14}^+ B_{10}^+ C_4^+ \Phi_{(D_3,)} \\
& +A_{14}^+ B_{10}^+ C_4^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{10}, C_7, D_{11})} = \\
& -A_{14}^+ C_7^+ \Phi_{(B_{10}, D_{11})} \\
& -B_{10}^+ D_{11}^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_{10}^+ C_7^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{10}, C_7, D_{12})} = \\
& -A_{14}^+ C_7^+ \Phi_{(B_{10}, D_{12})} \\
& -B_{10}^+ D_{12}^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_{10}^+ C_7^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_{10}, C_8, D_{11})} = \\
&-A_{14}^+ C_8^+ \Phi_{(B_{10}, D_{11})} \\
&-B_{10}^+ D_{11}^+ \Phi_{(A_{14}, C_8)} \\
&+A_{14}^+ B_{10}^+ C_8^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_{10}, C_8, D_{12})} = \\
&-A_{14}^+ C_8^+ \Phi_{(B_{10}, D_{12})} \\
&-B_{10}^+ D_{12}^+ \Phi_{(A_{14}, C_8)} \\
&+A_{14}^+ B_{10}^+ C_8^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_{10}, C_{11}, D_7)} = \\
&+A_{14}^+ D_7^+ \Phi_{(B_{10}, C_{11})} \\
&+B_{10}^+ C_{11}^+ \Phi_{(A_{14}, D_7)} \\
&+A_{14}^+ B_{10}^+ C_{11}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_{10}, C_{11}, D_8)} = \\
&+A_{14}^+ D_8^+ \Phi_{(B_{10}, C_{11})} \\
&+B_{10}^+ C_{11}^+ \Phi_{(A_{14}, D_8)} \\
&+A_{14}^+ B_{10}^+ C_{11}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_{10}, C_{12}, D_7)} = \\
&+A_{14}^+ D_7^+ \Phi_{(B_{10}, C_{12})} \\
&+B_{10}^+ C_{12}^+ \Phi_{(A_{14}, D_7)} \\
&+A_{14}^+ B_{10}^+ C_{12}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14}, B_{10}, C_{12}, D_8)} = \\
&+A_{14}^+ D_8^+ \Phi_{(B_{10}, C_{12})} \\
&+B_{10}^+ C_{12}^+ \Phi_{(A_{14}, D_8)} \\
&+A_{14}^+ B_{10}^+ C_{12}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_{11}, C_1, D_6)} = & \\
& + C_1^+ \Phi_{(A_{14}, B_{11}, D_6)} \\
& + A_{14}^+ B_{11}^+ D_6^+ \Phi_{(C_1,)} \\
& + A_{14}^+ B_{11}^+ C_1^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_{11}, C_2, D_6)} = & \\
& + C_2^+ \Phi_{(A_{14}, B_{11}, D_6)} \\
& + A_{14}^+ B_{11}^+ D_6^+ \Phi_{(C_2,)} \\
& + A_{14}^+ B_{11}^+ C_2^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_{11}, C_3, D_6)} = & \\
& + C_3^+ \Phi_{(A_{14}, B_{11}, D_6)} \\
& + A_{14}^+ B_{11}^+ D_6^+ \Phi_{(C_3,)} \\
& + A_{14}^+ B_{11}^+ C_3^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_{11}, C_6, D_1)} = & \\
& + D_1^+ \Phi_{(A_{14}, B_{11}, C_6)} \\
& + A_{14}^+ B_{11}^+ C_6^+ \Phi_{(D_1,)} \\
& + A_{14}^+ B_{11}^+ C_6^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_{11}, C_6, D_2)} = & \\
& + D_2^+ \Phi_{(A_{14}, B_{11}, C_6)} \\
& + A_{14}^+ B_{11}^+ C_6^+ \Phi_{(D_2,)} \\
& + A_{14}^+ B_{11}^+ C_6^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14}, B_{11}, C_6, D_3)} = & \\
& + D_3^+ \Phi_{(A_{14}, B_{11}, C_6)} \\
& + A_{14}^+ B_{11}^+ C_6^+ \Phi_{(D_3,)}
\end{aligned}$$

$$+A_{14}^+B_{11}^+C_6^+D_3^+\Phi_{()}=$$

$$\Phi_{(A_{14},B_{11},C_7,D_9)}=$$

$$-A_{14}^+C_7^+\Phi_{(B_{11},D_9)}$$

$$-B_{11}^+D_9^+\Phi_{(A_{14},C_7)}$$

$$+A_{14}^+B_{11}^+C_7^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{14},B_{11},C_7,D_{10})}=$$

$$-A_{14}^+C_7^+\Phi_{(B_{11},D_{10})}$$

$$-B_{11}^+D_{10}^+\Phi_{(A_{14},C_7)}$$

$$+A_{14}^+B_{11}^+C_7^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_{11},C_8,D_9)}=$$

$$-A_{14}^+C_8^+\Phi_{(B_{11},D_9)}$$

$$-B_{11}^+D_9^+\Phi_{(A_{14},C_8)}$$

$$+A_{14}^+B_{11}^+C_8^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{14},B_{11},C_8,D_{10})}=$$

$$-A_{14}^+C_8^+\Phi_{(B_{11},D_{10})}$$

$$-B_{11}^+D_{10}^+\Phi_{(A_{14},C_8)}$$

$$+A_{14}^+B_{11}^+C_8^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{14},B_{11},C_9,D_7)}=$$

$$+A_{14}^+D_7^+\Phi_{(B_{11},C_9)}$$

$$+B_{11}^+C_9^+\Phi_{(A_{14},D_7)}$$

$$+A_{14}^+B_{11}^+C_9^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{14},B_{11},C_9,D_8)}=$$

$$+A_{14}^+D_8^+\Phi_{(B_{11},C_9)}$$

$$\begin{aligned}
& +B_{11}^+C_9^+\Phi_{(A_{14},D_8)} \\
& +A_{14}^+B_{11}^+C_9^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_{11},C_{10},D_7)} = \\
& +A_{14}^+D_7^+\Phi_{(B_{11},C_{10})} \\
& +B_{11}^+C_{10}^+\Phi_{(A_{14},D_7)} \\
& +A_{14}^+B_{11}^+C_{10}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_{11},C_{10},D_8)} = \\
& +A_{14}^+D_8^+\Phi_{(B_{11},C_{10})} \\
& +B_{11}^+C_{10}^+\Phi_{(A_{14},D_8)} \\
& +A_{14}^+B_{11}^+C_{10}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_{12},C_1,D_6)} = \\
& +C_1^+\Phi_{(A_{14},B_{12},D_6)} \\
& +A_{14}^+B_{12}^+D_6^+\Phi_{(C_1,)} \\
& +A_{14}^+B_{12}^+C_1^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_{12},C_2,D_6)} = \\
& +C_2^+\Phi_{(A_{14},B_{12},D_6)} \\
& +A_{14}^+B_{12}^+D_6^+\Phi_{(C_2,)} \\
& +A_{14}^+B_{12}^+C_2^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{14},B_{12},C_3,D_6)} = \\
& +C_3^+\Phi_{(A_{14},B_{12},D_6)} \\
& +A_{14}^+B_{12}^+D_6^+\Phi_{(C_3,)} \\
& +A_{14}^+B_{12}^+C_3^+D_6^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{14},B_{12},C_6,D_1)} =$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_{14}, B_{12}, C_6)} \\
& +A_{14}^+ B_{12}^+ C_6^+ \Phi_{(D_1,)} \\
& +A_{14}^+ B_{12}^+ C_6^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{12}, C_6, D_2)} = \\
& +D_2^+ \Phi_{(A_{14}, B_{12}, C_6)} \\
& +A_{14}^+ B_{12}^+ C_6^+ \Phi_{(D_2,)} \\
& +A_{14}^+ B_{12}^+ C_6^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{12}, C_6, D_3)} = \\
& +D_3^+ \Phi_{(A_{14}, B_{12}, C_6)} \\
& +A_{14}^+ B_{12}^+ C_6^+ \Phi_{(D_3,)} \\
& +A_{14}^+ B_{12}^+ C_6^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{12}, C_7, D_9)} = \\
& -A_{14}^+ C_7^+ \Phi_{(B_{12}, D_9)} \\
& -B_{12}^+ D_9^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_{12}^+ C_7^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{12}, C_7, D_{10})} = \\
& -A_{14}^+ C_7^+ \Phi_{(B_{12}, D_{10})} \\
& -B_{12}^+ D_{10}^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_{12}^+ C_7^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{12}, C_8, D_9)} = \\
& -A_{14}^+ C_8^+ \Phi_{(B_{12}, D_9)} \\
& -B_{12}^+ D_9^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_{12}^+ C_8^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_{12},C_8,D_{10})} = \\
&-A_{14}^+ C_8^+ \Phi_{(B_{12},D_{10})} \\
&-B_{12}^+ D_{10}^+ \Phi_{(A_{14},C_8)} \\
&+A_{14}^+ B_{12}^+ C_8^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_{12},C_9,D_7)} = \\
&+A_{14}^+ D_7^+ \Phi_{(B_{12},C_9)} \\
&+B_{12}^+ C_9^+ \Phi_{(A_{14},D_7)} \\
&+A_{14}^+ B_{12}^+ C_9^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_{12},C_9,D_8)} = \\
&+A_{14}^+ D_8^+ \Phi_{(B_{12},C_9)} \\
&+B_{12}^+ C_9^+ \Phi_{(A_{14},D_8)} \\
&+A_{14}^+ B_{12}^+ C_9^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_{12},C_{10},D_7)} = \\
&+A_{14}^+ D_7^+ \Phi_{(B_{12},C_{10})} \\
&+B_{12}^+ C_{10}^+ \Phi_{(A_{14},D_7)} \\
&+A_{14}^+ B_{12}^+ C_{10}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_{12},C_{10},D_8)} = \\
&+A_{14}^+ D_8^+ \Phi_{(B_{12},C_{10})} \\
&+B_{12}^+ C_{10}^+ \Phi_{(A_{14},D_8)} \\
&+A_{14}^+ B_{12}^+ C_{10}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{14},B_{13},C_4,D_6)} = \\
&+A_{14}^+ B_{13}^+ C_4^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{14},B_{13},C_6,D_4)} =$$

$$+A_{14}^+B_{13}^+C_6^+D_4^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_{13},C_7,D_7)} =$$

$$-A_{14}^+C_7^+\Phi_{(B_{13},D_7)} \\$$

$$+A_{14}^+D_7^+\Phi_{(B_{13},C_7)} \\$$

$$+B_{13}^+C_7^+\Phi_{(A_{14},D_7)} \\$$

$$-B_{13}^+D_7^+\Phi_{(A_{14},C_7)} \\$$

$$+A_{14}^+B_{13}^+C_7^+D_7^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_{13},C_7,D_8)} =$$

$$-A_{14}^+C_7^+\Phi_{(B_{13},D_8)} \\$$

$$+A_{14}^+D_8^+\Phi_{(B_{13},C_7)} \\$$

$$+B_{13}^+C_7^+\Phi_{(A_{14},D_8)} \\$$

$$-B_{13}^+D_8^+\Phi_{(A_{14},C_7)} \\$$

$$+A_{14}^+B_{13}^+C_7^+D_8^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_{13},C_8,D_7)} =$$

$$-A_{14}^+C_8^+\Phi_{(B_{13},D_7)} \\$$

$$+A_{14}^+D_7^+\Phi_{(B_{13},C_8)} \\$$

$$+B_{13}^+C_8^+\Phi_{(A_{14},D_7)} \\$$

$$-B_{13}^+D_7^+\Phi_{(A_{14},C_8)} \\$$

$$+A_{14}^+B_{13}^+C_8^+D_7^+\Phi_{()} \\$$

$$\Phi_{(A_{14},B_{13},C_8,D_8)} =$$

$$-A_{14}^+C_8^+\Phi_{(B_{13},D_8)} \\$$

$$+A_{14}^+D_8^+\Phi_{(B_{13},C_8)} \\$$

$$+B_{13}^+C_8^+\Phi_{(A_{14},D_8)} \\$$

$$-B_{13}^+D_8^+\Phi_{(A_{14},C_8)} \\$$

$$+A_{14}^+B_{13}^+C_8^+D_8^+\Phi_{()} \\$$

$$\begin{aligned}\Phi_{(A_{14}, B_{14}, C_4, D_6)} = \\ + A_{14}^+ B_{14}^+ C_4^+ D_6^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14}, B_{14}, C_6, D_4)} = \\ + A_{14}^+ B_{14}^+ C_6^+ D_4^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14}, B_{14}, C_7, D_7)} = \\ - A_{14}^+ C_7^+ \Phi_{(B_{14}, D_7)} \\ + A_{14}^+ D_7^+ \Phi_{(B_{14}, C_7)} \\ + B_{14}^+ C_7^+ \Phi_{(A_{14}, D_7)} \\ - B_{14}^+ D_7^+ \Phi_{(A_{14}, C_7)} \\ + A_{14}^+ B_{14}^+ C_7^+ D_7^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14}, B_{14}, C_7, D_8)} = \\ - A_{14}^+ C_7^+ \Phi_{(B_{14}, D_8)} \\ + A_{14}^+ D_8^+ \Phi_{(B_{14}, C_7)} \\ + B_{14}^+ C_7^+ \Phi_{(A_{14}, D_8)} \\ - B_{14}^+ D_8^+ \Phi_{(A_{14}, C_7)} \\ + A_{14}^+ B_{14}^+ C_7^+ D_8^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{14}, B_{14}, C_8, D_7)} = \\ - A_{14}^+ C_8^+ \Phi_{(B_{14}, D_7)} \\ + A_{14}^+ D_7^+ \Phi_{(B_{14}, C_8)} \\ + B_{14}^+ C_8^+ \Phi_{(A_{14}, D_7)} \\ - B_{14}^+ D_7^+ \Phi_{(A_{14}, C_8)} \\ + A_{14}^+ B_{14}^+ C_8^+ D_7^+ \Phi_{()}\end{aligned}$$

$$\Phi_{(A_{14}, B_{14}, C_8, D_8)} =$$

$$\begin{aligned}
& -A_{14}^+ C_8^+ \Phi_{(B_{14}, D_8)} \\
& +A_{14}^+ D_8^+ \Phi_{(B_{14}, C_8)} \\
& +B_{14}^+ C_8^+ \Phi_{(A_{14}, D_8)} \\
& -B_{14}^+ D_8^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_{14}^+ C_8^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{15}, C_6, D_7)} = \\
& +A_{14}^+ D_7^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_{14}, D_7)} \\
& +A_{14}^+ B_{15}^+ C_6^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{15}, C_6, D_8)} = \\
& +A_{14}^+ D_8^+ \Phi_{(B_{15}, C_6)} \\
& +B_{15}^+ C_6^+ \Phi_{(A_{14}, D_8)} \\
& +A_{14}^+ B_{15}^+ C_6^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{15}, C_7, D_6)} = \\
& +A_{14}^+ C_7^+ \Phi_{(B_{15}, D_6)} \\
& +B_{15}^+ D_6^+ \Phi_{(A_{14}, C_7)} \\
& +A_{14}^+ B_{15}^+ C_7^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{14}, B_{15}, C_8, D_6)} = \\
& +A_{14}^+ C_8^+ \Phi_{(B_{15}, D_6)} \\
& +B_{15}^+ D_6^+ \Phi_{(A_{14}, C_8)} \\
& +A_{14}^+ B_{15}^+ C_8^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_1, C_1, D_6)} = \\
& +B_1^+ \Phi_{(A_{15}, C_1, D_6)} \\
& +C_1^+ \Phi_{(A_{15}, B_1, D_6)}
\end{aligned}$$

$$\begin{aligned}
& +A_{15}^+D_6^+\Phi_{(B_1,C_1)} \\
& +B_1^+C_1^+\Phi_{(A_{15},D_6)} \\
& +A_{15}^+B_1^+D_6^+\Phi_{(C_1,)} \\
& +A_{15}^+C_1^+D_6^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_1^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_1,C_2,D_6)} = \\
& +B_1^+\Phi_{(A_{15},C_2,D_6)} \\
& +C_2^+\Phi_{(A_{15},B_1,D_6)} \\
& +A_{15}^+D_6^+\Phi_{(B_1,C_2)} \\
& +B_1^+C_2^+\Phi_{(A_{15},D_6)} \\
& +A_{15}^+B_1^+D_6^+\Phi_{(C_2,)} \\
& +A_{15}^+C_2^+D_6^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_2^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_1,C_3,D_6)} = \\
& +B_1^+\Phi_{(A_{15},C_3,D_6)} \\
& +C_3^+\Phi_{(A_{15},B_1,D_6)} \\
& +A_{15}^+D_6^+\Phi_{(B_1,C_3)} \\
& +B_1^+C_3^+\Phi_{(A_{15},D_6)} \\
& +A_{15}^+B_1^+D_6^+\Phi_{(C_3,)} \\
& +A_{15}^+C_3^+D_6^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_3^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_1,C_6,D_1)} = \\
& +B_1^+\Phi_{(A_{15},C_6,D_1)} \\
& +D_1^+\Phi_{(A_{15},B_1,C_6)} \\
& +A_{15}^+C_6^+\Phi_{(B_1,D_1)} \\
& +B_1^+D_1^+\Phi_{(A_{15},C_6)}
\end{aligned}$$

$$\begin{aligned}
& +A_{15}^+B_1^+C_6^+\Phi_{(D_1,)} \\
& +A_{15}^+C_6^+D_1^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_6^+D_1^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_1,C_6,D_2)} = \\
& +B_1^+\Phi_{(A_{15},C_6,D_2)} \\
& +D_2^+\Phi_{(A_{15},B_1,C_6)} \\
& +A_{15}^+C_6^+\Phi_{(B_1,D_2)} \\
& +B_1^+D_2^+\Phi_{(A_{15},C_6)} \\
& +A_{15}^+B_1^+C_6^+\Phi_{(D_2,)} \\
& +A_{15}^+C_6^+D_2^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_6^+D_2^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_1,C_6,D_3)} = \\
& +B_1^+\Phi_{(A_{15},C_6,D_3)} \\
& +D_3^+\Phi_{(A_{15},B_1,C_6)} \\
& +A_{15}^+C_6^+\Phi_{(B_1,D_3)} \\
& +B_1^+D_3^+\Phi_{(A_{15},C_6)} \\
& +A_{15}^+B_1^+C_6^+\Phi_{(D_3,)} \\
& +A_{15}^+C_6^+D_3^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_6^+D_3^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_1,C_7,D_9)} = \\
& +B_1^+\Phi_{(A_{15},C_7,D_9)} \\
& +A_{15}^+C_7^+D_9^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_7^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_1,C_7,D_{10})} = \\
& +B_1^+\Phi_{(A_{15},C_7,D_{10})}
\end{aligned}$$

$$\begin{aligned}
& +A_{15}^+C_7^+D_{10}^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_7^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_1,C_8,D_9)} = \\
& +B_1^+\Phi_{(A_{15},C_8,D_9)} \\
& +A_{15}^+C_8^+D_9^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_8^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_1,C_8,D_{10})} = \\
& +B_1^+\Phi_{(A_{15},C_8,D_{10})} \\
& +A_{15}^+C_8^+D_{10}^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_8^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_1,C_9,D_7)} = \\
& +B_1^+\Phi_{(A_{15},C_9,D_7)} \\
& +A_{15}^+C_9^+D_7^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_9^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_1,C_9,D_8)} = \\
& +B_1^+\Phi_{(A_{15},C_9,D_8)} \\
& +A_{15}^+C_9^+D_8^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_9^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15},B_1,C_{10},D_7)} = \\
& +B_1^+\Phi_{(A_{15},C_{10},D_7)} \\
& +A_{15}^+C_{10}^+D_7^+\Phi_{(B_1,)} \\
& +A_{15}^+B_1^+C_{10}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{15},B_1,C_{10},D_8)} =$$

$$\begin{aligned}
& +B_1^+ \Phi_{(A_{15}, C_{10}, D_8)} \\
& +A_{15}^+ C_{10}^+ D_8^+ \Phi_{(B_1,)} \\
& +A_{15}^+ B_1^+ C_{10}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_2, C_1, D_6)} = \\
& +B_2^+ \Phi_{(A_{15}, C_1, D_6)} \\
& +C_1^+ \Phi_{(A_{15}, B_2, D_6)} \\
& +A_{15}^+ D_6^+ \Phi_{(B_2, C_1)} \\
& +B_2^+ C_1^+ \Phi_{(A_{15}, D_6)} \\
& +A_{15}^+ B_2^+ D_6^+ \Phi_{(C_1,)} \\
& +A_{15}^+ C_1^+ D_6^+ \Phi_{(B_2,)} \\
& +A_{15}^+ B_2^+ C_1^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_2, C_2, D_6)} = \\
& +B_2^+ \Phi_{(A_{15}, C_2, D_6)} \\
& +C_2^+ \Phi_{(A_{15}, B_2, D_6)} \\
& +A_{15}^+ D_6^+ \Phi_{(B_2, C_2)} \\
& +B_2^+ C_2^+ \Phi_{(A_{15}, D_6)} \\
& +A_{15}^+ B_2^+ D_6^+ \Phi_{(C_2,)} \\
& +A_{15}^+ C_2^+ D_6^+ \Phi_{(B_2,)} \\
& +A_{15}^+ B_2^+ C_2^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_2, C_3, D_6)} = \\
& +B_2^+ \Phi_{(A_{15}, C_3, D_6)} \\
& +C_3^+ \Phi_{(A_{15}, B_2, D_6)} \\
& +A_{15}^+ D_6^+ \Phi_{(B_2, C_3)} \\
& +B_2^+ C_3^+ \Phi_{(A_{15}, D_6)} \\
& +A_{15}^+ B_2^+ D_6^+ \Phi_{(C_3,)} \\
& +A_{15}^+ C_3^+ D_6^+ \Phi_{(B_2,)}
\end{aligned}$$

$$+A_{15}^+B_2^+C_3^+D_6^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{15},B_2,C_6,D_1)} = & \\ & +B_2^+\Phi_{(A_{15},C_6,D_1)} \\ & +D_1^+\Phi_{(A_{15},B_2,C_6)} \\ & +A_{15}^+C_6^+\Phi_{(B_2,D_1)} \\ & +B_2^+D_1^+\Phi_{(A_{15},C_6)} \\ & +A_{15}^+B_2^+C_6^+\Phi_{(D_1,)} \\ & +A_{15}^+C_6^+D_1^+\Phi_{(B_2,)} \\ & +A_{15}^+B_2^+C_6^+D_1^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{15},B_2,C_6,D_2)} = & \\ & +B_2^+\Phi_{(A_{15},C_6,D_2)} \\ & +D_2^+\Phi_{(A_{15},B_2,C_6)} \\ & +A_{15}^+C_6^+\Phi_{(B_2,D_2)} \\ & +B_2^+D_2^+\Phi_{(A_{15},C_6)} \\ & +A_{15}^+B_2^+C_6^+\Phi_{(D_2,)} \\ & +A_{15}^+C_6^+D_2^+\Phi_{(B_2,)} \\ & +A_{15}^+B_2^+C_6^+D_2^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{15},B_2,C_6,D_3)} = & \\ & +B_2^+\Phi_{(A_{15},C_6,D_3)} \\ & +D_3^+\Phi_{(A_{15},B_2,C_6)} \\ & +A_{15}^+C_6^+\Phi_{(B_2,D_3)} \\ & +B_2^+D_3^+\Phi_{(A_{15},C_6)} \\ & +A_{15}^+B_2^+C_6^+\Phi_{(D_3,)} \\ & +A_{15}^+C_6^+D_3^+\Phi_{(B_2,)} \\ & +A_{15}^+B_2^+C_6^+D_3^+\Phi_{()} \end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_2, C_7, D_9)} = \\
&+ B_2^+ \Phi_{(A_{15}, C_7, D_9)} \\
&+ A_{15}^+ C_7^+ D_9^+ \Phi_{(B_2,)} \\
&+ A_{15}^+ B_2^+ C_7^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_2, C_7, D_{10})} = \\
&+ B_2^+ \Phi_{(A_{15}, C_7, D_{10})} \\
&+ A_{15}^+ C_7^+ D_{10}^+ \Phi_{(B_2,)} \\
&+ A_{15}^+ B_2^+ C_7^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_2, C_8, D_9)} = \\
&+ B_2^+ \Phi_{(A_{15}, C_8, D_9)} \\
&+ A_{15}^+ C_8^+ D_9^+ \Phi_{(B_2,)} \\
&+ A_{15}^+ B_2^+ C_8^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_2, C_8, D_{10})} = \\
&+ B_2^+ \Phi_{(A_{15}, C_8, D_{10})} \\
&+ A_{15}^+ C_8^+ D_{10}^+ \Phi_{(B_2,)} \\
&+ A_{15}^+ B_2^+ C_8^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_2, C_9, D_7)} = \\
&+ B_2^+ \Phi_{(A_{15}, C_9, D_7)} \\
&+ A_{15}^+ C_9^+ D_7^+ \Phi_{(B_2,)} \\
&+ A_{15}^+ B_2^+ C_9^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_2, C_9, D_8)} = \\
&+ B_2^+ \Phi_{(A_{15}, C_9, D_8)} \\
&+ A_{15}^+ C_9^+ D_8^+ \Phi_{(B_2,)} \\
&+ A_{15}^+ B_2^+ C_9^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_2, C_{10}, D_7)} = \\
&+ B_2^+ \Phi_{(A_{15}, C_{10}, D_7)} \\
&+ A_{15}^+ C_{10}^+ D_7^+ \Phi_{(B_2,)} \\
&+ A_{15}^+ B_2^+ C_{10}^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_2, C_{10}, D_8)} = \\
&+ B_2^+ \Phi_{(A_{15}, C_{10}, D_8)} \\
&+ A_{15}^+ C_{10}^+ D_8^+ \Phi_{(B_2,)} \\
&+ A_{15}^+ B_2^+ C_{10}^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_3, C_1, D_6)} = \\
&+ B_3^+ \Phi_{(A_{15}, C_1, D_6)} \\
&+ C_1^+ \Phi_{(A_{15}, B_3, D_6)} \\
&+ A_{15}^+ D_6^+ \Phi_{(B_3, C_1)} \\
&+ B_3^+ C_1^+ \Phi_{(A_{15}, D_6)} \\
&+ A_{15}^+ B_3^+ D_6^+ \Phi_{(C_1,)} \\
&+ A_{15}^+ C_1^+ D_6^+ \Phi_{(B_3,)} \\
&+ A_{15}^+ B_3^+ C_1^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_3, C_2, D_6)} = \\
&+ B_3^+ \Phi_{(A_{15}, C_2, D_6)} \\
&+ C_2^+ \Phi_{(A_{15}, B_3, D_6)} \\
&+ A_{15}^+ D_6^+ \Phi_{(B_3, C_2)} \\
&+ B_3^+ C_2^+ \Phi_{(A_{15}, D_6)} \\
&+ A_{15}^+ B_3^+ D_6^+ \Phi_{(C_2,)} \\
&+ A_{15}^+ C_2^+ D_6^+ \Phi_{(B_3,)} \\
&+ A_{15}^+ B_3^+ C_2^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_3, C_3, D_6)} = \\
&+ B_3^+ \Phi_{(A_{15}, C_3, D_6)} \\
&+ C_3^+ \Phi_{(A_{15}, B_3, D_6)} \\
&+ A_{15}^+ D_6^+ \Phi_{(B_3, C_3)} \\
&+ B_3^+ C_3^+ \Phi_{(A_{15}, D_6)} \\
&+ A_{15}^+ B_3^+ D_6^+ \Phi_{(C_3,)} \\
&+ A_{15}^+ C_3^+ D_6^+ \Phi_{(B_3,)} \\
&+ A_{15}^+ B_3^+ C_3^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_3, C_6, D_1)} = \\
&+ B_3^+ \Phi_{(A_{15}, C_6, D_1)} \\
&+ D_1^+ \Phi_{(A_{15}, B_3, C_6)} \\
&+ A_{15}^+ C_6^+ \Phi_{(B_3, D_1)} \\
&+ B_3^+ D_1^+ \Phi_{(A_{15}, C_6)} \\
&+ A_{15}^+ B_3^+ C_6^+ \Phi_{(D_1,)} \\
&+ A_{15}^+ C_6^+ D_1^+ \Phi_{(B_3,)} \\
&+ A_{15}^+ B_3^+ C_6^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_3, C_6, D_2)} = \\
&+ B_3^+ \Phi_{(A_{15}, C_6, D_2)} \\
&+ D_2^+ \Phi_{(A_{15}, B_3, C_6)} \\
&+ A_{15}^+ C_6^+ \Phi_{(B_3, D_2)} \\
&+ B_3^+ D_2^+ \Phi_{(A_{15}, C_6)} \\
&+ A_{15}^+ B_3^+ C_6^+ \Phi_{(D_2,)} \\
&+ A_{15}^+ C_6^+ D_2^+ \Phi_{(B_3,)} \\
&+ A_{15}^+ B_3^+ C_6^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_3, C_6, D_3)} = \\
&+ B_3^+ \Phi_{(A_{15}, C_6, D_3)}
\end{aligned}$$

$$\begin{aligned}
& +D_3^+ \Phi_{(A_{15}, B_3, C_6)} \\
& +A_{15}^+ C_6^+ \Phi_{(B_3, D_3)} \\
& +B_3^+ D_3^+ \Phi_{(A_{15}, C_6)} \\
& +A_{15}^+ B_3^+ C_6^+ \Phi_{(D_3,)} \\
& +A_{15}^+ C_6^+ D_3^+ \Phi_{(B_3,)} \\
& +A_{15}^+ B_3^+ C_6^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_3, C_7, D_9)} = \\
& +B_3^+ \Phi_{(A_{15}, C_7, D_9)} \\
& +A_{15}^+ C_7^+ D_9^+ \Phi_{(B_3,)} \\
& +A_{15}^+ B_3^+ C_7^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_3, C_7, D_{10})} = \\
& +B_3^+ \Phi_{(A_{15}, C_7, D_{10})} \\
& +A_{15}^+ C_7^+ D_{10}^+ \Phi_{(B_3,)} \\
& +A_{15}^+ B_3^+ C_7^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_3, C_8, D_9)} = \\
& +B_3^+ \Phi_{(A_{15}, C_8, D_9)} \\
& +A_{15}^+ C_8^+ D_9^+ \Phi_{(B_3,)} \\
& +A_{15}^+ B_3^+ C_8^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_3, C_8, D_{10})} = \\
& +B_3^+ \Phi_{(A_{15}, C_8, D_{10})} \\
& +A_{15}^+ C_8^+ D_{10}^+ \Phi_{(B_3,)} \\
& +A_{15}^+ B_3^+ C_8^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_3, C_9, D_7)} = \\
& +B_3^+ \Phi_{(A_{15}, C_9, D_7)}
\end{aligned}$$

$$+A_{15}^+C_9^+D_7^+\Phi_{(B_3,)}$$

$$+A_{15}^+B_3^+C_9^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{15},B_3,C_9,D_8)} =$$

$$+B_3^+\Phi_{(A_{15},C_9,D_8)}$$

$$+A_{15}^+C_9^+D_8^+\Phi_{(B_3,)}$$

$$+A_{15}^+B_3^+C_9^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{15},B_3,C_{10},D_7)} =$$

$$+B_3^+\Phi_{(A_{15},C_{10},D_7)}$$

$$+A_{15}^+C_{10}^+D_7^+\Phi_{(B_3,)}$$

$$+A_{15}^+B_3^+C_{10}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{15},B_3,C_{10},D_8)} =$$

$$+B_3^+\Phi_{(A_{15},C_{10},D_8)}$$

$$+A_{15}^+C_{10}^+D_8^+\Phi_{(B_3,)}$$

$$+A_{15}^+B_3^+C_{10}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{15},B_4,C_5,D_6)} =$$

$$+A_{15}^+D_6^+\Phi_{(B_4,C_5)}$$

$$+B_4^+C_5^+\Phi_{(A_{15},D_6)}$$

$$+A_{15}^+B_4^+C_5^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{15},B_4,C_6,D_5)} =$$

$$+A_{15}^+C_6^+\Phi_{(B_4,D_5)}$$

$$+B_4^+D_5^+\Phi_{(A_{15},C_6)}$$

$$+A_{15}^+B_4^+C_6^+D_5^+\Phi_{()}$$

$$\Phi_{(A_{15},B_4,C_9,D_9)} =$$

$$+A_{15}^+B_4^+C_9^+D_9^+\Phi_{()} \\$$

$$\Phi_{(A_{15},B_4,C_9,D_{10})} = \\ +A_{15}^+B_4^+C_9^+D_{10}^+\Phi_{()} \\$$

$$\Phi_{(A_{15},B_4,C_{10},D_9)} = \\ +A_{15}^+B_4^+C_{10}^+D_9^+\Phi_{()} \\$$

$$\Phi_{(A_{15},B_4,C_{10},D_{10})} = \\ +A_{15}^+B_4^+C_{10}^+D_{10}^+\Phi_{()} \\$$

$$\Phi_{(A_{15},B_5,C_4,D_6)} = \\ +A_{15}^+D_6^+\Phi_{(B_5,C_4)} \\ +B_5^+C_4^+\Phi_{(A_{15},D_6)} \\ +A_{15}^+B_5^+C_4^+D_6^+\Phi_{()} \\$$

$$\Phi_{(A_{15},B_5,C_6,D_4)} = \\ +A_{15}^+C_6^+\Phi_{(B_5,D_4)} \\ +B_5^+D_4^+\Phi_{(A_{15},C_6)} \\ +A_{15}^+B_5^+C_6^+D_4^+\Phi_{()} \\$$

$$\Phi_{(A_{15},B_5,C_7,D_7)} = \\ +A_{15}^+B_5^+C_7^+D_7^+\Phi_{()} \\$$

$$\Phi_{(A_{15},B_5,C_7,D_8)} = \\ +A_{15}^+B_5^+C_7^+D_8^+\Phi_{()} \\$$

$$\Phi_{(A_{15},B_5,C_8,D_7)} = \\ +A_{15}^+B_5^+C_8^+D_7^+\Phi_{()} \\$$

$$\begin{aligned}\Phi_{(A_{15}, B_5, C_8, D_8)} = \\ + A_{15}^+ B_5^+ C_8^+ D_8^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15}, B_6, C_1, D_1)} = \\ + C_1^+ \Phi_{(A_{15}, B_6, D_1)} \\ + D_1^+ \Phi_{(A_{15}, B_6, C_1)} \\ + A_{15}^+ B_6^+ \Phi_{(C_1, D_1)} \\ + C_1^+ D_1^+ \Phi_{(A_{15}, B_6)} \\ + A_{15}^+ B_6^+ C_1^+ \Phi_{(D_1,)} \\ + A_{15}^+ B_6^+ D_1^+ \Phi_{(C_1,)} \\ + A_{15}^+ B_6^+ C_1^+ D_1^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15}, B_6, C_1, D_2)} = \\ + C_1^+ \Phi_{(A_{15}, B_6, D_2)} \\ + D_2^+ \Phi_{(A_{15}, B_6, C_1)} \\ + A_{15}^+ B_6^+ \Phi_{(C_1, D_2)} \\ + C_1^+ D_2^+ \Phi_{(A_{15}, B_6)} \\ + A_{15}^+ B_6^+ C_1^+ \Phi_{(D_2,)} \\ + A_{15}^+ B_6^+ D_2^+ \Phi_{(C_1,)} \\ + A_{15}^+ B_6^+ C_1^+ D_2^+ \Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15}, B_6, C_1, D_3)} = \\ + C_1^+ \Phi_{(A_{15}, B_6, D_3)} \\ + D_3^+ \Phi_{(A_{15}, B_6, C_1)} \\ + A_{15}^+ B_6^+ \Phi_{(C_1, D_3)} \\ + C_1^+ D_3^+ \Phi_{(A_{15}, B_6)} \\ + A_{15}^+ B_6^+ C_1^+ \Phi_{(D_3,)} \\ + A_{15}^+ B_6^+ D_3^+ \Phi_{(C_1,)}\end{aligned}$$

$$+A_{15}^+B_6^+C_1^+D_3^+\Phi_{()} \\$$

$$\begin{aligned} \Phi_{(A_{15},B_6,C_2,D_1)} = & \\ & +C_2^+\Phi_{(A_{15},B_6,D_1)} \\ & +D_1^+\Phi_{(A_{15},B_6,C_2)} \\ & +A_{15}^+B_6^+\Phi_{(C_2,D_1)} \\ & +C_2^+D_1^+\Phi_{(A_{15},B_6)} \\ & +A_{15}^+B_6^+C_2^+\Phi_{(D_1,)} \\ & +A_{15}^+B_6^+D_1^+\Phi_{(C_2,)} \\ & +A_{15}^+B_6^+C_2^+D_1^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{15},B_6,C_2,D_2)} = & \\ & +C_2^+\Phi_{(A_{15},B_6,D_2)} \\ & +D_2^+\Phi_{(A_{15},B_6,C_2)} \\ & +A_{15}^+B_6^+\Phi_{(C_2,D_2)} \\ & +C_2^+D_2^+\Phi_{(A_{15},B_6)} \\ & +A_{15}^+B_6^+C_2^+\Phi_{(D_2,)} \\ & +A_{15}^+B_6^+D_2^+\Phi_{(C_2,)} \\ & +A_{15}^+B_6^+C_2^+D_2^+\Phi_{()} \end{aligned}$$

$$\begin{aligned} \Phi_{(A_{15},B_6,C_2,D_3)} = & \\ & +C_2^+\Phi_{(A_{15},B_6,D_3)} \\ & +D_3^+\Phi_{(A_{15},B_6,C_2)} \\ & +A_{15}^+B_6^+\Phi_{(C_2,D_3)} \\ & +C_2^+D_3^+\Phi_{(A_{15},B_6)} \\ & +A_{15}^+B_6^+C_2^+\Phi_{(D_3,)} \\ & +A_{15}^+B_6^+D_3^+\Phi_{(C_2,)} \\ & +A_{15}^+B_6^+C_2^+D_3^+\Phi_{()} \end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15},B_6,C_3,D_1)} = \\
&+C_3^+ \Phi_{(A_{15},B_6,D_1)} \\
&+D_1^+ \Phi_{(A_{15},B_6,C_3)} \\
&+A_{15}^+ B_6^+ \Phi_{(C_3,D_1)} \\
&+C_3^+ D_1^+ \Phi_{(A_{15},B_6)} \\
&+A_{15}^+ B_6^+ C_3^+ \Phi_{(D_1,)} \\
&+A_{15}^+ B_6^+ D_1^+ \Phi_{(C_3,)} \\
&+A_{15}^+ B_6^+ C_3^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15},B_6,C_3,D_2)} = \\
&+C_3^+ \Phi_{(A_{15},B_6,D_2)} \\
&+D_2^+ \Phi_{(A_{15},B_6,C_3)} \\
&+A_{15}^+ B_6^+ \Phi_{(C_3,D_2)} \\
&+C_3^+ D_2^+ \Phi_{(A_{15},B_6)} \\
&+A_{15}^+ B_6^+ C_3^+ \Phi_{(D_2,)} \\
&+A_{15}^+ B_6^+ D_2^+ \Phi_{(C_3,)} \\
&+A_{15}^+ B_6^+ C_3^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15},B_6,C_3,D_3)} = \\
&+C_3^+ \Phi_{(A_{15},B_6,D_3)} \\
&+D_3^+ \Phi_{(A_{15},B_6,C_3)} \\
&+A_{15}^+ B_6^+ \Phi_{(C_3,D_3)} \\
&+C_3^+ D_3^+ \Phi_{(A_{15},B_6)} \\
&+A_{15}^+ B_6^+ C_3^+ \Phi_{(D_3,)} \\
&+A_{15}^+ B_6^+ D_3^+ \Phi_{(C_3,)} \\
&+A_{15}^+ B_6^+ C_3^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15},B_6,C_4,D_5)} = \\
&+A_{15}^+ B_6^+ \Phi_{(C_4,D_5)}
\end{aligned}$$

$$\begin{aligned}
& +C_4^+ D_5^+ \Phi_{(A_{15}, B_6)} \\
& +A_{15}^+ B_6^+ C_4^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_6, C_5, D_4)} = \\
& +A_{15}^+ B_6^+ \Phi_{(C_5, D_4)} \\
& +C_5^+ D_4^+ \Phi_{(A_{15}, B_6)} \\
& +A_{15}^+ B_6^+ C_5^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_6, C_6, D_{15})} = \\
& +A_{15}^+ B_6^+ \Phi_{(C_6, D_{15})} \\
& +A_{15}^+ C_6^+ \Phi_{(B_6, D_{15})} \\
& +B_6^+ D_{15}^+ \Phi_{(A_{15}, C_6)} \\
& +C_6^+ D_{15}^+ \Phi_{(A_{15}, B_6)} \\
& +A_{15}^+ B_6^+ C_6^+ D_{15}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_6, C_7, D_{13})} = \\
& +A_{15}^+ B_6^+ \Phi_{(C_7, D_{13})} \\
& +C_7^+ D_{13}^+ \Phi_{(A_{15}, B_6)} \\
& +A_{15}^+ B_6^+ C_7^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_6, C_7, D_{14})} = \\
& +A_{15}^+ B_6^+ \Phi_{(C_7, D_{14})} \\
& +C_7^+ D_{14}^+ \Phi_{(A_{15}, B_6)} \\
& +A_{15}^+ B_6^+ C_7^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_6, C_8, D_{13})} = \\
& +A_{15}^+ B_6^+ \Phi_{(C_8, D_{13})} \\
& +C_8^+ D_{13}^+ \Phi_{(A_{15}, B_6)} \\
& +A_{15}^+ B_6^+ C_8^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_6, C_8, D_{14})} = \\
&+ A_{15}^+ B_6^+ \Phi_{(C_8, D_{14})} \\
&+ C_8^+ D_{14}^+ \Phi_{(A_{15}, B_6)} \\
&+ A_{15}^+ B_6^+ C_8^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_6, C_9, D_{11})} = \\
&+ A_{15}^+ B_6^+ \Phi_{(C_9, D_{11})} \\
&+ C_9^+ D_{11}^+ \Phi_{(A_{15}, B_6)} \\
&+ A_{15}^+ B_6^+ C_9^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_6, C_9, D_{12})} = \\
&+ A_{15}^+ B_6^+ \Phi_{(C_9, D_{12})} \\
&+ C_9^+ D_{12}^+ \Phi_{(A_{15}, B_6)} \\
&+ A_{15}^+ B_6^+ C_9^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_6, C_{10}, D_{11})} = \\
&+ A_{15}^+ B_6^+ \Phi_{(C_{10}, D_{11})} \\
&+ C_{10}^+ D_{11}^+ \Phi_{(A_{15}, B_6)} \\
&+ A_{15}^+ B_6^+ C_{10}^+ D_{11}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_6, C_{10}, D_{12})} = \\
&+ A_{15}^+ B_6^+ \Phi_{(C_{10}, D_{12})} \\
&+ C_{10}^+ D_{12}^+ \Phi_{(A_{15}, B_6)} \\
&+ A_{15}^+ B_6^+ C_{10}^+ D_{12}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_6, C_{11}, D_9)} = \\
&+ A_{15}^+ B_6^+ \Phi_{(C_{11}, D_9)} \\
&+ C_{11}^+ D_9^+ \Phi_{(A_{15}, B_6)}
\end{aligned}$$

$$+A_{15}^+B_6^+C_{11}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{15},B_6,C_{11},D_{10})} =$$

$$+A_{15}^+B_6^+\Phi_{(C_{11},D_{10})}$$

$$+C_{11}^+D_{10}^+\Phi_{(A_{15},B_6)}$$

$$+A_{15}^+B_6^+C_{11}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{15},B_6,C_{12},D_9)} =$$

$$+A_{15}^+B_6^+\Phi_{(C_{12},D_9)}$$

$$+C_{12}^+D_9^+\Phi_{(A_{15},B_6)}$$

$$+A_{15}^+B_6^+C_{12}^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{15},B_6,C_{12},D_{10})} =$$

$$+A_{15}^+B_6^+\Phi_{(C_{12},D_{10})}$$

$$+C_{12}^+D_{10}^+\Phi_{(A_{15},B_6)}$$

$$+A_{15}^+B_6^+C_{12}^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{15},B_6,C_{13},D_7)} =$$

$$+A_{15}^+B_6^+\Phi_{(C_{13},D_7)}$$

$$+C_{13}^+D_7^+\Phi_{(A_{15},B_6)}$$

$$+A_{15}^+B_6^+C_{13}^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{15},B_6,C_{13},D_8)} =$$

$$+A_{15}^+B_6^+\Phi_{(C_{13},D_8)}$$

$$+C_{13}^+D_8^+\Phi_{(A_{15},B_6)}$$

$$+A_{15}^+B_6^+C_{13}^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{15},B_6,C_{14},D_7)} =$$

$$+A_{15}^+B_6^+\Phi_{(C_{14},D_7)}$$

$$\begin{aligned}
& +C_{14}^+D_7^+\Phi_{(A_{15},B_6)} \\
& +A_{15}^+B_6^+C_{14}^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_6,C_{14},D_8)} = \\
& +A_{15}^+B_6^+\Phi_{(C_{14},D_8)} \\
& +C_{14}^+D_8^+\Phi_{(A_{15},B_6)} \\
& +A_{15}^+B_6^+C_{14}^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_6,C_{15},D_6)} = \\
& +A_{15}^+B_6^+\Phi_{(C_{15},D_6)} \\
& +A_{15}^+D_6^+\Phi_{(B_6,C_{15})} \\
& +B_6^+C_{15}^+\Phi_{(A_{15},D_6)} \\
& +C_{15}^+D_6^+\Phi_{(A_{15},B_6)} \\
& +A_{15}^+B_6^+C_{15}^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_7,C_1,D_9)} = \\
& +C_1^+\Phi_{(A_{15},B_7,D_9)} \\
& +A_{15}^+B_7^+D_9^+\Phi_{(C_1,)} \\
& +A_{15}^+B_7^+C_1^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_7,C_1,D_{10})} = \\
& +C_1^+\Phi_{(A_{15},B_7,D_{10})} \\
& +A_{15}^+B_7^+D_{10}^+\Phi_{(C_1,)} \\
& +A_{15}^+B_7^+C_1^+D_{10}^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_7,C_2,D_9)} = \\
& +C_2^+\Phi_{(A_{15},B_7,D_9)} \\
& +A_{15}^+B_7^+D_9^+\Phi_{(C_2,)} \\
& +A_{15}^+B_7^+C_2^+D_9^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_7, C_2, D_{10})} = \\
&+ C_2^+ \Phi_{(A_{15}, B_7, D_{10})} \\
&+ A_{15}^+ B_7^+ D_{10}^+ \Phi_{(C_2,)} \\
&+ A_{15}^+ B_7^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_7, C_3, D_9)} = \\
&+ C_3^+ \Phi_{(A_{15}, B_7, D_9)} \\
&+ A_{15}^+ B_7^+ D_9^+ \Phi_{(C_3,)} \\
&+ A_{15}^+ B_7^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_7, C_3, D_{10})} = \\
&+ C_3^+ \Phi_{(A_{15}, B_7, D_{10})} \\
&+ A_{15}^+ B_7^+ D_{10}^+ \Phi_{(C_3,)} \\
&+ A_{15}^+ B_7^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_7, C_5, D_7)} = \\
&+ A_{15}^+ B_7^+ C_5^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_7, C_5, D_8)} = \\
&+ A_{15}^+ B_7^+ C_5^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_7, C_6, D_{13})} = \\
&+ A_{15}^+ C_6^+ \Phi_{(B_7, D_{13})} \\
&+ B_7^+ D_{13}^+ \Phi_{(A_{15}, C_6)} \\
&+ A_{15}^+ B_7^+ C_6^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_7, C_6, D_{14})} = \\
&+ A_{15}^+ C_6^+ \Phi_{(B_7, D_{14})}
\end{aligned}$$

$$\begin{aligned}
& +B_7^+ D_{14}^+ \Phi_{(A_{15}, C_6)} \\
& +A_{15}^+ B_7^+ C_6^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_7, C_7, D_5)} = \\
& +A_{15}^+ B_7^+ C_7^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_7, C_8, D_5)} = \\
& +A_{15}^+ B_7^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_7, C_9, D_1)} = \\
& +D_1^+ \Phi_{(A_{15}, B_7, C_9)} \\
& +A_{15}^+ B_7^+ C_9^+ \Phi_{(D_1,)} \\
& +A_{15}^+ B_7^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_7, C_9, D_2)} = \\
& +D_2^+ \Phi_{(A_{15}, B_7, C_9)} \\
& +A_{15}^+ B_7^+ C_9^+ \Phi_{(D_2,)} \\
& +A_{15}^+ B_7^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_7, C_9, D_3)} = \\
& +D_3^+ \Phi_{(A_{15}, B_7, C_9)} \\
& +A_{15}^+ B_7^+ C_9^+ \Phi_{(D_3,)} \\
& +A_{15}^+ B_7^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_7, C_{10}, D_1)} = \\
& +D_1^+ \Phi_{(A_{15}, B_7, C_{10})} \\
& +A_{15}^+ B_7^+ C_{10}^+ \Phi_{(D_1,)} \\
& +A_{15}^+ B_7^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_7, C_{10}, D_2)} = & \\
& + D_2^+ \Phi_{(A_{15}, B_7, C_{10})} \\
& + A_{15}^+ B_7^+ C_{10}^+ \Phi_{(D_2,)} \\
& + A_{15}^+ B_7^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_7, C_{10}, D_3)} = & \\
& + D_3^+ \Phi_{(A_{15}, B_7, C_{10})} \\
& + A_{15}^+ B_7^+ C_{10}^+ \Phi_{(D_3,)} \\
& + A_{15}^+ B_7^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_7, C_{13}, D_6)} = & \\
& + A_{15}^+ D_6^+ \Phi_{(B_7, C_{13})} \\
& + B_7^+ C_{13}^+ \Phi_{(A_{15}, D_6)} \\
& + A_{15}^+ B_7^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_7, C_{14}, D_6)} = & \\
& + A_{15}^+ D_6^+ \Phi_{(B_7, C_{14})} \\
& + B_7^+ C_{14}^+ \Phi_{(A_{15}, D_6)} \\
& + A_{15}^+ B_7^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_1, D_9)} = & \\
& + C_1^+ \Phi_{(A_{15}, B_8, D_9)} \\
& + A_{15}^+ B_8^+ D_9^+ \Phi_{(C_1,)} \\
& + A_{15}^+ B_8^+ C_1^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_1, D_{10})} = & \\
& + C_1^+ \Phi_{(A_{15}, B_8, D_{10})} \\
& + A_{15}^+ B_8^+ D_{10}^+ \Phi_{(C_1,)} \\
& + A_{15}^+ B_8^+ C_1^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_8, C_2, D_9)} = \\
&+ C_2^+ \Phi_{(A_{15}, B_8, D_9)} \\
&+ A_{15}^+ B_8^+ D_9^+ \Phi_{(C_2,)} \\
&+ A_{15}^+ B_8^+ C_2^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_8, C_2, D_{10})} = \\
&+ C_2^+ \Phi_{(A_{15}, B_8, D_{10})} \\
&+ A_{15}^+ B_8^+ D_{10}^+ \Phi_{(C_2,)} \\
&+ A_{15}^+ B_8^+ C_2^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_8, C_3, D_9)} = \\
&+ C_3^+ \Phi_{(A_{15}, B_8, D_9)} \\
&+ A_{15}^+ B_8^+ D_9^+ \Phi_{(C_3,)} \\
&+ A_{15}^+ B_8^+ C_3^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_8, C_3, D_{10})} = \\
&+ C_3^+ \Phi_{(A_{15}, B_8, D_{10})} \\
&+ A_{15}^+ B_8^+ D_{10}^+ \Phi_{(C_3,)} \\
&+ A_{15}^+ B_8^+ C_3^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_8, C_5, D_7)} = \\
&+ A_{15}^+ B_8^+ C_5^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_8, C_5, D_8)} = \\
&+ A_{15}^+ B_8^+ C_5^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_8, C_6, D_{13})} = \\
&+ A_{15}^+ C_6^+ \Phi_{(B_8, D_{13})}
\end{aligned}$$

$$\begin{aligned}
& +B_8^+ D_{13}^+ \Phi_{(A_{15}, C_6)} \\
& +A_{15}^+ B_8^+ C_6^+ D_{13}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_6, D_{14})} = \\
& +A_{15}^+ C_6^+ \Phi_{(B_8, D_{14})} \\
& +B_8^+ D_{14}^+ \Phi_{(A_{15}, C_6)} \\
& +A_{15}^+ B_8^+ C_6^+ D_{14}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_7, D_5)} = \\
& +A_{15}^+ B_8^+ C_7^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_8, D_5)} = \\
& +A_{15}^+ B_8^+ C_8^+ D_5^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_9, D_1)} = \\
& +D_1^+ \Phi_{(A_{15}, B_8, C_9)} \\
& +A_{15}^+ B_8^+ C_9^+ \Phi_{(D_1,)} \\
& +A_{15}^+ B_8^+ C_9^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_9, D_2)} = \\
& +D_2^+ \Phi_{(A_{15}, B_8, C_9)} \\
& +A_{15}^+ B_8^+ C_9^+ \Phi_{(D_2,)} \\
& +A_{15}^+ B_8^+ C_9^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_9, D_3)} = \\
& +D_3^+ \Phi_{(A_{15}, B_8, C_9)} \\
& +A_{15}^+ B_8^+ C_9^+ \Phi_{(D_3,)} \\
& +A_{15}^+ B_8^+ C_9^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_{10}, D_1)} = & \\
& + D_1^+ \Phi_{(A_{15}, B_8, C_{10})} \\
& + A_{15}^+ B_8^+ C_{10}^+ \Phi_{(D_1,)} \\
& + A_{15}^+ B_8^+ C_{10}^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_{10}, D_2)} = & \\
& + D_2^+ \Phi_{(A_{15}, B_8, C_{10})} \\
& + A_{15}^+ B_8^+ C_{10}^+ \Phi_{(D_2,)} \\
& + A_{15}^+ B_8^+ C_{10}^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_{10}, D_3)} = & \\
& + D_3^+ \Phi_{(A_{15}, B_8, C_{10})} \\
& + A_{15}^+ B_8^+ C_{10}^+ \Phi_{(D_3,)} \\
& + A_{15}^+ B_8^+ C_{10}^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_{13}, D_6)} = & \\
& + A_{15}^+ D_6^+ \Phi_{(B_8, C_{13})} \\
& + B_8^+ C_{13}^+ \Phi_{(A_{15}, D_6)} \\
& + A_{15}^+ B_8^+ C_{13}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_8, C_{14}, D_6)} = & \\
& + A_{15}^+ D_6^+ \Phi_{(B_8, C_{14})} \\
& + B_8^+ C_{14}^+ \Phi_{(A_{15}, D_6)} \\
& + A_{15}^+ B_8^+ C_{14}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_9, C_1, D_7)} = & \\
& + C_1^+ \Phi_{(A_{15}, B_9, D_7)} \\
& + A_{15}^+ B_9^+ D_7^+ \Phi_{(C_1,)} \\
& + A_{15}^+ B_9^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_9, C_1, D_8)} = \\
&+ C_1^+ \Phi_{(A_{15}, B_9, D_8)} \\
&+ A_{15}^+ B_9^+ D_8^+ \Phi_{(C_1,)} \\
&+ A_{15}^+ B_9^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_9, C_2, D_7)} = \\
&+ C_2^+ \Phi_{(A_{15}, B_9, D_7)} \\
&+ A_{15}^+ B_9^+ D_7^+ \Phi_{(C_2,)} \\
&+ A_{15}^+ B_9^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_9, C_2, D_8)} = \\
&+ C_2^+ \Phi_{(A_{15}, B_9, D_8)} \\
&+ A_{15}^+ B_9^+ D_8^+ \Phi_{(C_2,)} \\
&+ A_{15}^+ B_9^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_9, C_3, D_7)} = \\
&+ C_3^+ \Phi_{(A_{15}, B_9, D_7)} \\
&+ A_{15}^+ B_9^+ D_7^+ \Phi_{(C_3,)} \\
&+ A_{15}^+ B_9^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_9, C_3, D_8)} = \\
&+ C_3^+ \Phi_{(A_{15}, B_9, D_8)} \\
&+ A_{15}^+ B_9^+ D_8^+ \Phi_{(C_3,)} \\
&+ A_{15}^+ B_9^+ C_3^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_9, C_4, D_9)} = \\
&+ A_{15}^+ B_9^+ C_4^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_9,C_4,D_{10})} = \\ +A_{15}^+B_9^+C_4^+D_{10}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_9,C_6,D_{11})} = \\ +A_{15}^+C_6^+\Phi_{(B_9,D_{11})} \\ +B_9^+D_{11}^+\Phi_{(A_{15},C_6)} \\ +A_{15}^+B_9^+C_6^+D_{11}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_9,C_6,D_{12})} = \\ +A_{15}^+C_6^+\Phi_{(B_9,D_{12})} \\ +B_9^+D_{12}^+\Phi_{(A_{15},C_6)} \\ +A_{15}^+B_9^+C_6^+D_{12}^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_9,C_7,D_1)} = \\ +D_1^+\Phi_{(A_{15},B_9,C_7)} \\ +A_{15}^+B_9^+C_7^+\Phi_{(D_1,)} \\ +A_{15}^+B_9^+C_7^+D_1^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_9,C_7,D_2)} = \\ +D_2^+\Phi_{(A_{15},B_9,C_7)} \\ +A_{15}^+B_9^+C_7^+\Phi_{(D_2,)} \\ +A_{15}^+B_9^+C_7^+D_2^+\Phi_{()}\end{aligned}$$

$$\begin{aligned}\Phi_{(A_{15},B_9,C_7,D_3)} = \\ +D_3^+\Phi_{(A_{15},B_9,C_7)} \\ +A_{15}^+B_9^+C_7^+\Phi_{(D_3,)} \\ +A_{15}^+B_9^+C_7^+D_3^+\Phi_{()}\end{aligned}$$

$$\Phi_{(A_{15},B_9,C_8,D_1)} =$$

$$\begin{aligned}
& +D_1^+ \Phi_{(A_{15}, B_9, C_8)} \\
& +A_{15}^+ B_9^+ C_8^+ \Phi_{(D_1,)} \\
& +A_{15}^+ B_9^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_9, C_8, D_2)} = \\
& +D_2^+ \Phi_{(A_{15}, B_9, C_8)} \\
& +A_{15}^+ B_9^+ C_8^+ \Phi_{(D_2,)} \\
& +A_{15}^+ B_9^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_9, C_8, D_3)} = \\
& +D_3^+ \Phi_{(A_{15}, B_9, C_8)} \\
& +A_{15}^+ B_9^+ C_8^+ \Phi_{(D_3,)} \\
& +A_{15}^+ B_9^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_9, C_9, D_4)} = \\
& +A_{15}^+ B_9^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_9, C_{10}, D_4)} = \\
& +A_{15}^+ B_9^+ C_{10}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_9, C_{11}, D_6)} = \\
& +A_{15}^+ D_6^+ \Phi_{(B_9, C_{11})} \\
& +B_9^+ C_{11}^+ \Phi_{(A_{15}, D_6)} \\
& +A_{15}^+ B_9^+ C_{11}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_9, C_{12}, D_6)} = \\
& +A_{15}^+ D_6^+ \Phi_{(B_9, C_{12})} \\
& +B_9^+ C_{12}^+ \Phi_{(A_{15}, D_6)} \\
& +A_{15}^+ B_9^+ C_{12}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_{10}, C_1, D_7)} = & \\
& + C_1^+ \Phi_{(A_{15}, B_{10}, D_7)} \\
& + A_{15}^+ B_{10}^+ D_7^+ \Phi_{(C_1,)} \\
& + A_{15}^+ B_{10}^+ C_1^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_{10}, C_1, D_8)} = & \\
& + C_1^+ \Phi_{(A_{15}, B_{10}, D_8)} \\
& + A_{15}^+ B_{10}^+ D_8^+ \Phi_{(C_1,)} \\
& + A_{15}^+ B_{10}^+ C_1^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_{10}, C_2, D_7)} = & \\
& + C_2^+ \Phi_{(A_{15}, B_{10}, D_7)} \\
& + A_{15}^+ B_{10}^+ D_7^+ \Phi_{(C_2,)} \\
& + A_{15}^+ B_{10}^+ C_2^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_{10}, C_2, D_8)} = & \\
& + C_2^+ \Phi_{(A_{15}, B_{10}, D_8)} \\
& + A_{15}^+ B_{10}^+ D_8^+ \Phi_{(C_2,)} \\
& + A_{15}^+ B_{10}^+ C_2^+ D_8^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_{10}, C_3, D_7)} = & \\
& + C_3^+ \Phi_{(A_{15}, B_{10}, D_7)} \\
& + A_{15}^+ B_{10}^+ D_7^+ \Phi_{(C_3,)} \\
& + A_{15}^+ B_{10}^+ C_3^+ D_7^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15}, B_{10}, C_3, D_8)} = & \\
& + C_3^+ \Phi_{(A_{15}, B_{10}, D_8)} \\
& + A_{15}^+ B_{10}^+ D_8^+ \Phi_{(C_3,)}
\end{aligned}$$

$$+A_{15}^+B_{10}^+C_3^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{10},C_4,D_9)} =$$

$$+A_{15}^+B_{10}^+C_4^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{10},C_4,D_{10})} =$$

$$+A_{15}^+B_{10}^+C_4^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{10},C_6,D_{11})} =$$

$$+A_{15}^+C_6^+\Phi_{(B_{10},D_{11})}$$

$$+B_{10}^+D_{11}^+\Phi_{(A_{15},C_6)}$$

$$+A_{15}^+B_{10}^+C_6^+D_{11}^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{10},C_6,D_{12})} =$$

$$+A_{15}^+C_6^+\Phi_{(B_{10},D_{12})}$$

$$+B_{10}^+D_{12}^+\Phi_{(A_{15},C_6)}$$

$$+A_{15}^+B_{10}^+C_6^+D_{12}^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{10},C_7,D_1)} =$$

$$+D_1^+\Phi_{(A_{15},B_{10},C_7)}$$

$$+A_{15}^+B_{10}^+C_7^+\Phi_{(D_1,)}$$

$$+A_{15}^+B_{10}^+C_7^+D_1^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{10},C_7,D_2)} =$$

$$+D_2^+\Phi_{(A_{15},B_{10},C_7)}$$

$$+A_{15}^+B_{10}^+C_7^+\Phi_{(D_2,)}$$

$$+A_{15}^+B_{10}^+C_7^+D_2^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{10},C_7,D_3)} =$$

$$\begin{aligned}
& +D_3^+ \Phi_{(A_{15}, B_{10}, C_7)} \\
& +A_{15}^+ B_{10}^+ C_7^+ \Phi_{(D_3,)} \\
& +A_{15}^+ B_{10}^+ C_7^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_{10}, C_8, D_1)} = \\
& +D_1^+ \Phi_{(A_{15}, B_{10}, C_8)} \\
& +A_{15}^+ B_{10}^+ C_8^+ \Phi_{(D_1,)} \\
& +A_{15}^+ B_{10}^+ C_8^+ D_1^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_{10}, C_8, D_2)} = \\
& +D_2^+ \Phi_{(A_{15}, B_{10}, C_8)} \\
& +A_{15}^+ B_{10}^+ C_8^+ \Phi_{(D_2,)} \\
& +A_{15}^+ B_{10}^+ C_8^+ D_2^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_{10}, C_8, D_3)} = \\
& +D_3^+ \Phi_{(A_{15}, B_{10}, C_8)} \\
& +A_{15}^+ B_{10}^+ C_8^+ \Phi_{(D_3,)} \\
& +A_{15}^+ B_{10}^+ C_8^+ D_3^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_{10}, C_9, D_4)} = \\
& +A_{15}^+ B_{10}^+ C_9^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_{10}, C_{10}, D_4)} = \\
& +A_{15}^+ B_{10}^+ C_{10}^+ D_4^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
& \Phi_{(A_{15}, B_{10}, C_{11}, D_6)} = \\
& +A_{15}^+ D_6^+ \Phi_{(B_{10}, C_{11})} \\
& +B_{10}^+ C_{11}^+ \Phi_{(A_{15}, D_6)} \\
& +A_{15}^+ B_{10}^+ C_{11}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_{10}, C_{12}, D_6)} = \\
&+ A_{15}^+ D_6^+ \Phi_{(B_{10}, C_{12})} \\
&+ B_{10}^+ C_{12}^+ \Phi_{(A_{15}, D_6)} \\
&+ A_{15}^+ B_{10}^+ C_{12}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_{11}, C_6, D_9)} = \\
&+ A_{15}^+ C_6^+ \Phi_{(B_{11}, D_9)} \\
&+ B_{11}^+ D_9^+ \Phi_{(A_{15}, C_6)} \\
&+ A_{15}^+ B_{11}^+ C_6^+ D_9^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_{11}, C_6, D_{10})} = \\
&+ A_{15}^+ C_6^+ \Phi_{(B_{11}, D_{10})} \\
&+ B_{11}^+ D_{10}^+ \Phi_{(A_{15}, C_6)} \\
&+ A_{15}^+ B_{11}^+ C_6^+ D_{10}^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_{11}, C_9, D_6)} = \\
&+ A_{15}^+ D_6^+ \Phi_{(B_{11}, C_9)} \\
&+ B_{11}^+ C_9^+ \Phi_{(A_{15}, D_6)} \\
&+ A_{15}^+ B_{11}^+ C_9^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_{11}, C_{10}, D_6)} = \\
&+ A_{15}^+ D_6^+ \Phi_{(B_{11}, C_{10})} \\
&+ B_{11}^+ C_{10}^+ \Phi_{(A_{15}, D_6)} \\
&+ A_{15}^+ B_{11}^+ C_{10}^+ D_6^+ \Phi_{()}
\end{aligned}$$

$$\begin{aligned}
&\Phi_{(A_{15}, B_{12}, C_6, D_9)} = \\
&+ A_{15}^+ C_6^+ \Phi_{(B_{12}, D_9)} \\
&+ B_{12}^+ D_9^+ \Phi_{(A_{15}, C_6)}
\end{aligned}$$

$$+A_{15}^+B_{12}^+C_6^+D_9^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{12},C_6,D_{10})} =$$

$$+A_{15}^+C_6^+\Phi_{(B_{12},D_{10})}$$

$$+B_{12}^+D_{10}^+\Phi_{(A_{15},C_6)}$$

$$+A_{15}^+B_{12}^+C_6^+D_{10}^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{12},C_9,D_6)} =$$

$$+A_{15}^+D_6^+\Phi_{(B_{12},C_9)}$$

$$+B_{12}^+C_9^+\Phi_{(A_{15},D_6)}$$

$$+A_{15}^+B_{12}^+C_9^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{12},C_{10},D_6)} =$$

$$+A_{15}^+D_6^+\Phi_{(B_{12},C_{10})}$$

$$+B_{12}^+C_{10}^+\Phi_{(A_{15},D_6)}$$

$$+A_{15}^+B_{12}^+C_{10}^+D_6^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{13},C_6,D_7)} =$$

$$+A_{15}^+C_6^+\Phi_{(B_{13},D_7)}$$

$$+B_{13}^+D_7^+\Phi_{(A_{15},C_6)}$$

$$+A_{15}^+B_{13}^+C_6^+D_7^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{13},C_6,D_8)} =$$

$$+A_{15}^+C_6^+\Phi_{(B_{13},D_8)}$$

$$+B_{13}^+D_8^+\Phi_{(A_{15},C_6)}$$

$$+A_{15}^+B_{13}^+C_6^+D_8^+\Phi_{()}$$

$$\Phi_{(A_{15},B_{13},C_7,D_6)} =$$

$$+A_{15}^+D_6^+\Phi_{(B_{13},C_7)}$$

$$\begin{aligned}
& +B_{13}^+C_7^+\Phi_{(A_{15},D_6)} \\
& +A_{15}^+B_{13}^+C_7^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_{13},C_8,D_6)} = \\
& +A_{15}^+D_6^+\Phi_{(B_{13},C_8)} \\
& +B_{13}^+C_8^+\Phi_{(A_{15},D_6)} \\
& +A_{15}^+B_{13}^+C_8^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_{14},C_6,D_7)} = \\
& +A_{15}^+C_6^+\Phi_{(B_{14},D_7)} \\
& +B_{14}^+D_7^+\Phi_{(A_{15},C_6)} \\
& +A_{15}^+B_{14}^+C_6^+D_7^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_{14},C_6,D_8)} = \\
& +A_{15}^+C_6^+\Phi_{(B_{14},D_8)} \\
& +B_{14}^+D_8^+\Phi_{(A_{15},C_6)} \\
& +A_{15}^+B_{14}^+C_6^+D_8^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_{14},C_7,D_6)} = \\
& +A_{15}^+D_6^+\Phi_{(B_{14},C_7)} \\
& +B_{14}^+C_7^+\Phi_{(A_{15},D_6)} \\
& +A_{15}^+B_{14}^+C_7^+D_6^+\Phi_{()}
\end{aligned}$$

$$\begin{aligned}
\Phi_{(A_{15},B_{14},C_8,D_6)} = \\
& +A_{15}^+D_6^+\Phi_{(B_{14},C_8)} \\
& +B_{14}^+C_8^+\Phi_{(A_{15},D_6)} \\
& +A_{15}^+B_{14}^+C_8^+D_6^+\Phi_{()}
\end{aligned}$$

$$\Phi_{(A_{15},B_{15},C_6,D_6)} =$$

$$\begin{aligned}
&+A_{15}^+C_6^+\Phi_{(B_{15},D_6)} \\
&+A_{15}^+D_6^+\Phi_{(B_{15},C_6)} \\
&+B_{15}^+C_6^+\Phi_{(A_{15},D_6)} \\
&+B_{15}^+D_6^+\Phi_{(A_{15},C_6)} \\
&+A_{15}^+B_{15}^+C_6^+D_6^+\Phi_{()}
\end{aligned}$$