CalcCircuitGenerator

SetDirectory @ NotebookDirectory[];
Import["../Link/QuESTlink.m"];

```
test[in_] := Module[
    {out, inMatr, check, error},
    (* Note: 'in' must target lowest-index qubits, because the
        Pauli strings returned by CalcCircuitGenerator[] may correctly
        contain Id<sub>0</sub> despite 0 being un-targeted by the gates. This
        makes CalcCircuitMatrix return different dimensional objects etc
    *)
    out = CalcCircuitGenerator[in];
    check = MatrixExp[ i CalcPauliExpressionMatrix[out] ];
    inMatr = CalcCircuitMatrix @ First @ GetCircuitCompacted @ in;
    error = inMatr - check // N // Abs // Chop // Max // Simplify // Chop;
    Echo[out, "output: "];
    Echo[error, "error: "];
    If[error =!= 0, Style["ERRONEOUS GENERATOR!", Red]]]
```

Doc

? CalcCircuitGenerator

CalcCircuitGenerator[circuit] computes the Pauli
string generator G of the given circuit, whereby circuit = Exp[i G].

• If circuit contains decoherence operators, the generator
of the circuit's superoperator is returned. See ?GetCircuitSuperoperator.

• If circuit is unitary, the resulting coefficients may have non-zero
imaginary components due to numerical error; these can be removed with Chop[].

• If circuit is a single operator, the resulting Pauli string is automatically simplified.

• Accepts option TransformationFunction -> f, where function f will be applied to the generator's
Z-basis matrix before projection into the Pauli basis. This overrides the automatic simplification.

Tests

Numerical

test @ U0 @ RandomVariate @ CircularUnitaryMatrixDistribution @ 2

```
» output: (-0.642941 + 3.26562 \times 10^{-16} \text{ i}) Id<sub>0</sub> + (0.484959 + 5.55112 \times 10^{-17} \text{ i}) X<sub>0</sub> -
      (0.458753 + 1.11022 \times 10^{-16} \text{ i}) Y_0 + (0.0876569 - 7.50268 \times 10^{-17} \text{ i}) Z_0
```

(* because input is unitary, output can be chopped to reveal all-real *) Chop @ CalcCircuitGenerator @

U₀ @ RandomVariate @ CircularUnitaryMatrixDistribution @ 2 $-1.47244 \text{ Id}_0 + 0.914053 \text{ X}_0 + 1.08233 \text{ Y}_0 - 0.61343 \text{ Z}_0$

test @ U_{0.1.2} @ RandomVariate @ CircularUnitaryMatrixDistribution @ 8

```
» output: (0.138101 + 2.24647 \times 10^{-16} \text{ i}) Id<sub>2</sub> - (0.24979 - 1.83881 \times 10^{-16} \text{ i}) X<sub>0</sub> +
                                                                                         (0.0085917 + 3.67761 \times 10^{-16} i) X_1 + (0.24019 + 1.52656 \times 10^{-16} i) X_0 X_1 +
                                                                                         (0.152793 - 2.22045 \times 10^{-16} \text{ i}) X_2 - (0.162138 - 6.76542 \times 10^{-17} \text{ i}) X_0 X_2 +
                                                                                              \left( \texttt{0.0657346} + \texttt{1.52656} \times \texttt{10}^{-16} \ \text{i} \right) \ X_1 \ X_2 - \left( \texttt{0.0173216} + \texttt{2.35922} \times \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \right) \ X_0 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \ X_3 \ X_1 \ X_2 + \texttt{10}^{-16} \ \text{i} \ X_3 
                                                                                                (0.0226546 - 1.73472 \times 10^{-16} \text{ i}) Y_0 + (0.202542 - 1.31839 \times 10^{-16} \text{ i}) X_1 Y_0 -
                                                                                              \left( \text{0.159337} + \text{1.66533} \times \text{10}^{-16} \ \text{i} \right) \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \ \text{i} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{1} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{2} \ X_{3} \ X_{2} \ Y_{0} - \left( \text{0.24499} + \text{5.20417} \times \text{10}^{-17} \right) \ X_{3} \ X_{4} \ X_{5} 
                                                                                             \left(0.20209 + 1.49186 \times 10^{-16} \ \text{i}\right) \ Y_1 - \left(0.0954031 + 0.\ \text{i}\right) \ X_0 \ Y_1 -
                                                                                                (0.219868 - 6.93889 \times 10^{-17} i) X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314749 - 3.46945 \times 10^{-18} i) X_0 X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_0 X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_0 X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_0 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_0 X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_1 X_2 Y_1 - (0.314745 - 3.46945 \times 10^{-18} i) X_1 X_2 Y_1 X_
                                                                                              \left( \, \text{0.0593108} \, - \, \text{2.08167} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \left( \, \text{0.192119} \, + \, \text{2.63678} \times 10^{-16} \, \, \dot{\text{1}} \, \right) \, \, X_{2} \, \, Y_{0} \, \, Y_{1} \, + \, \, \dot{\text{1}} \, \, Y_{0} \, \, 
                                                                                             (0.119025 + 2.77556 \times 10^{-16} i) Y_2 + (0.145875 - 2.77556 \times 10^{-16} i) X_0 Y_2 -
                                                                                                 \left( \texttt{0.357975} + \texttt{1.38778} \times \texttt{10}^{-17} \ \text{i} \right) \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{7.97973} \times \texttt{10}^{-17} \ \text{i} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{7.97973} \times \texttt{10}^{-17} \ \text{i} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{7.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ Y_2 + \left( \texttt{0.0158068} - \texttt{1.97973} \times \texttt{10}^{-17} \right) \ X_0 \ X_1 \ X_1 \ X_2 \ X_1 \ X_2 \ X_2 \ X_1 \ X_2 \ X
                                                                                              \left( \text{0.312147} - \text{2.60209} \times \text{10}^{-17} \ \text{i} \right) \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.08167} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.082815} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.082815} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_2 + \\ \left( \text{0.282815} + \text{2.082815} \times \text{10}^{-16} \ \text{i} \right) \ X_1 \ Y_0 \ Y_
                                                                                              (0.0832061 + 2.08167 \times 10^{-16} \pm) \ Y_1 \ Y_2 - (0.455289 - 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 + (0.0832061 + 2.08167 \times 10^{-16} \pm) \ X_0 \ Y_1 \ Y_2 \ Y_2 \ Y_2 \ Y_3 \ Y_3 \ Y_3 \ Y_2 \ Y_3 
                                                                                                (0.281424 + 2.32453 \times 10^{-16} i) Y_0 Y_1 Y_2 + (0.296709 + 4.42354 \times 10^{-17} i) Z_0 -
                                                                                                (0.194716 + 9.02056 \times 10^{-17} i) X_1 Z_0 + (0.222757 + 1.11022 \times 10^{-16} i) X_2 Z_0 -
                                                                                              \left( \text{0.0162767} + \text{9.71445} \times \text{10}^{-17} \text{ i} \right) \text{ X}_{1} \text{ X}_{2} \text{ Z}_{0} + \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10}^{-17} \text{ i} \right) \text{ Y}_{1} \text{ Z}_{0} - \\ \left( \text{0.161143} + \text{3.1225} \times \text{10
                                                                                                (0.00621457 + 1.21431 \times 10^{-16} \text{ i}) X_2 Y_1 Z_0 + (0.24448 + 1.249 \times 10^{-16} \text{ i}) Y_2 Z_0 +
                                                                                                 \left( \texttt{0.174157} - \texttt{2.70617} \times \texttt{10}^{-16} \ \text{i} \right) \ \mathsf{X_1} \ \mathsf{Y_2} \ \mathsf{Z_0} - \left( \texttt{0.0293672} - \texttt{4.30211} \times \texttt{10}^{-16} \ \text{i} \right) \ \mathsf{Y_1} \ \mathsf{Y_2} \ \mathsf{Z_0} + \mathsf{10}^{-16} \ \mathsf{I} \right) \ \mathsf{Y_1} \ \mathsf{Y_2} \ \mathsf{Z_0} + \mathsf{10}^{-16} \ \mathsf{I} \right) \ \mathsf{Y_1} \ \mathsf{Y_2} \ \mathsf{Z_0} + \mathsf{10}^{-16} \ \mathsf{I} \right) \ \mathsf{Y_1} \ \mathsf{Y_2} \ \mathsf{Z_0} + \mathsf{10}^{-16} \ \mathsf{I} \right) \ \mathsf{Y_1} \ \mathsf{Y_2} \ \mathsf{Z_0} + \mathsf{10}^{-16} \ \mathsf{I} \right) \ \mathsf{Y_1} \ \mathsf{Y_2} \ \mathsf{Z_0} + \mathsf{10}^{-16} \ \mathsf{I} + \mathsf{10}^{-
                                                                                             \left(\,\textbf{0.154474}\,-\,\textbf{9.62772}\times\textbf{10}^{-17}\,\,\dot{\textbf{1}}\,\right)\,\,\textbf{Z}_{1}\,+\,\left(\,\textbf{0.162572}\,-\,\textbf{6.93889}\times\textbf{10}^{-17}\,\,\dot{\textbf{1}}\,\right)\,\,\textbf{X}_{0}\,\,\textbf{Z}_{1}\,-\,\textbf{10}\,\,\dot{\textbf{X}}_{1}\,\,\dot{\textbf{X}}_{2}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot{\textbf{X}}_{3}\,\,\dot
                                                                                                 \left( \text{0.304894} + \text{2.77556} \times \text{10}^{-17} \text{ i} \right) \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_2 \text{ Z}_1 + \left( \text{0.00157098} + \text{8.50015} \times \text{10}^{-17} \text{ i} \right) \text{ X}_0 \text{ X}_1 + \left( \text{0.00157098} + \text{0.00157098} \right) \text{ X}_0 \text{ X}_1 + \left( \text{0.00157098} + \text{0.00157098}
                                                                                                 \left( \texttt{0.0618603} - \texttt{1.45717} \times \texttt{10}^{-16} \ \text{i} \right) \ \mathsf{Y_0} \ \mathsf{Z_1} + \left( \texttt{0.255173} + \texttt{2.77556} \times \texttt{10}^{-16} \ \text{i} \right) \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \left( \texttt{0.255173} + \texttt{2.77556} \times \texttt{10}^{-16} \right) \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \texttt{10}^{-16} \ \mathsf{I} \right) \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \texttt{10}^{-16} \ \mathsf{I} \right) \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \texttt{10}^{-16} \ \mathsf{I} \right) \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \texttt{10}^{-16} \ \mathsf{I} \right) \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \texttt{10}^{-16} \ \mathsf{I} \right) \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \mathsf{10}^{-16} \ \mathsf{I} \right) \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \mathsf{10}^{-16} \ \mathsf{I} \right) \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \mathsf{I} \right] \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \mathsf{I} \right] \ \mathsf{X_2} \ \mathsf{Y_0} \ \mathsf{Z_1} + \mathsf{2.77556} \times \mathsf{I} 
                                                                                              \left( \texttt{0.766275} + \texttt{2.77556} \times \texttt{10}^{-16} \ \dot{\texttt{1}} \right) \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{5.55112} \times \texttt{10}^{-17} \ \dot{\texttt{1}} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{5.55112} \times \texttt{10}^{-17} \ \dot{\texttt{1}} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{5.55112} \times \texttt{10}^{-17} \ \dot{\texttt{1}} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{5.55112} \times \texttt{10}^{-17} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} + \texttt{0.145183} \right) \ X_0 \ Y_2 \ Z_1 - \left( \texttt{0.145183} + \texttt{0.145183} +
                                                                                                (0.169133 + 4.33681 \times 10^{-17} i) Y_0 Y_2 Z_1 + (0.107994 + 2.86229 \times 10^{-17} i) Z_0 Z_1 -
                                                                                                 \left( \texttt{0.558454} + \texttt{4.44089} \times \texttt{10}^{-16} \ \text{i} \right) \ \mathsf{X}_2 \ \mathsf{Z}_0 \ \mathsf{Z}_1 - \left( \texttt{0.095023} + \texttt{2.08167} \times \texttt{10}^{-16} \ \text{i} \right) \ \mathsf{Y}_2 \ \mathsf{Z}_0 \ \mathsf{Z}_1 - \left( \texttt{0.095023} + \texttt{2.08167} \times \texttt{10}^{-16} \right) \ \mathsf{Y}_2 \ \mathsf{Z}_0 \ \mathsf{Z}_1 - \mathsf{2.08167} \times \texttt{10}^{-16} \ \mathsf{Z}_2 \ \mathsf{Z}_2 \ \mathsf{Z}_3 \ \mathsf{Z}_3 \ \mathsf{Z}_4 \right) 
                                                                                             (0.249518 + 1.20563 \times 10^{-16} \text{ i}) Z_2 + (0.0909317 + 6.59195 \times 10^{-17} \text{ i}) X_0 Z_2 +
                                                                                                 \left( \texttt{0.0106539} + \texttt{2.15106} \times \texttt{10}^{-16} \ \text{i} \right) \ \mathsf{X_1} \ \mathsf{Z_2} - \left( \texttt{0.0899607} + \texttt{2.91434} \times \texttt{10}^{-16} \ \text{i} \right) \ \mathsf{X_0} \ \mathsf{X_1} \ \mathsf{Z_2} + \left( \texttt{0.0899607} + \texttt{2.91434} \times \texttt{10}^{-16} \right) \ \mathsf{X_{0}} \ \mathsf{X_{1}} \ \mathsf{Z_{2}} + \left( \texttt{0.0899607} + \texttt{2.91434} \times \texttt{10}^{-16} \right) \ \mathsf{X_{1}} \ \mathsf{Z_{2}} + \left( \texttt{0.0899607} + \texttt{2.91434} \times \texttt{10}^{-16} \right) \ \mathsf{Z_{2}} + \left( \texttt{0.0899607} + \texttt{0.0899607} \right)
                                                                                                \left(\textbf{0.0250677} - \textbf{1.73472} \times \textbf{10}^{-16} \ \text{i} \right) \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \left(\textbf{0.120686} - \textbf{6.93889} \times \textbf{10}^{-18} \ \text{i} \right) \ \textbf{X}_{1} \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \left(\textbf{0.120686} - \textbf{6.93889} \times \textbf{10}^{-18} \ \text{i} \right) \ \textbf{X}_{1} \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \left(\textbf{0.120686} - \textbf{6.93889} \times \textbf{10}^{-18} \ \text{i} \right) \ \textbf{X}_{1} \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \left(\textbf{0.120686} - \textbf{6.93889} \times \textbf{10}^{-18} \ \text{i} \right) \ \textbf{X}_{1} \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \left(\textbf{0.120686} - \textbf{6.93889} \times \textbf{10}^{-18} \ \text{i} \right) \ \textbf{X}_{1} \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \left(\textbf{0.120686} - \textbf{6.93889} \times \textbf{10}^{-18} \ \text{i} \right) \ \textbf{X}_{1} \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \left(\textbf{0.120686} - \textbf{6.93889} \times \textbf{10}^{-18} \ \text{i} \right) \ \textbf{X}_{1} \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \left(\textbf{0.120686} - \textbf{6.93889} \times \textbf{10}^{-18} \ \text{i} \right) \ \textbf{X}_{1} \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \left(\textbf{0.120686} - \textbf{6.93889} \times \textbf{10}^{-18} \ \text{i} \right) \ \textbf{X}_{1} \ \textbf{Y}_{0} \ \textbf{Z}_{2} - \textbf{0.120686} + \textbf{0.
                                                                                              \left( \text{0.15428} + \text{4.51028} \times \text{10}^{-17} \,\, \text{i} \, \right) \,\, Y_{1} \,\, Z_{2} \, + \,\, \left( \text{0.315067} \, + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \, - \,\, \left( \text{0.15428} + \, \text{4.51028} \times \text{10}^{-17} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \, - \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \, - \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \, - \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \, - \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \, - \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \, - \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \, - \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \,\, - \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, X_{0} \,\, Y_{1} \,\, Z_{2} \,\, - \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{1.38778} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3878} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3878} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3878} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3878} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3878} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3878} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3878} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3878} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3878} \times \text{10}^{-16} \,\, \text{i} \, \right) \,\, Z_{2} \,\, + \,\, \left( \text{0.315067} + \, \text{0.3
                                                                                             (0.0079498 + 2.22045 \times 10^{-16} \text{ i}) Y_0 Y_1 Z_2 + (0.166603 - 7.89299 \times 10^{-17} \text{ i}) Z_0 Z_2 -
                                                                                                 \left( \texttt{0.0425243} - \texttt{6.245} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{X_1} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_1} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_1} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_1} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_1} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_2} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_2} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_2} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_2} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_2} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_2} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Y_2} \ \mathsf{Z_0} \ \mathsf{Z_2} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \text{i} \right) \ \mathsf{Z_0} \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \mathsf{Z_0} \right) \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \mathsf{Z_0} \right) \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \mathsf{Z_0} \right) \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \mathsf{Z_0} \right) \ \mathsf{Z_0} + \\ \left( \texttt{0.284662} - \texttt{3.1225} \times \texttt{10}^{-17} \ \mathsf{Z_0} \right) \ \mathsf{Z_0} + \\
                                                                                         (0.185936 - 2.02095 \times 10^{-16} \text{ i}) Z<sub>1</sub> Z<sub>2</sub> + (0.0792724 + 2.63678 \times 10^{-16} \text{ i}) X<sub>0</sub> Z<sub>1</sub> Z<sub>2</sub> +
                                                                                         (0.1775 + 1.8735 \times 10^{-16} i) Y_0 Z_1 Z_2 - (0.620373 - 2.00361 \times 10^{-16} i) Z_0 Z_1 Z_2
```

Automatic simplification

```
(* non-unitary, so coefficients are complex *)
    test @ Fac[x]
» output: -i Log[x] Id₀
» error: 0
     (* below are unitary, so coefficients are real *)
    test @ G[x]
» output: x Id_0
» error: 0
    test@H₀
» output: \frac{\pi \text{ Id}_0}{2} - \frac{\pi \text{ X}_0}{2 \sqrt{2}} - \frac{\pi \text{ Z}_0}{2 \sqrt{2}}
» error: 0
    CalcCircuitGenerator @ Id₀
    test @ C<sub>2</sub>@Ph<sub>0,1</sub>[x]
» output: \frac{x \text{ Id}_2}{8} - \frac{x Z_0}{8} - \frac{x Z_1}{8} + \frac{1}{8} x Z_0 Z_1 - \frac{x Z_2}{8} + \frac{1}{8} x Z_0 Z_2 + \frac{1}{8} x Z_1 Z_2 - \frac{1}{8} x Z_0 Z_1 Z_2
» error: 0
    test @ R[x, X_0 Y_1 Z_2]
» output: -\frac{1}{2} \times X_0 Y_1 Z_2
» error: 0
    test @ C_{3,4}@R[x, X_0 Y_1 Z_2]
» output: -\frac{1}{8} \times X_0 Y_1 Z_2 + \frac{1}{8} \times X_0 Y_1 Z_2 Z_3 + \frac{1}{8} \times X_0 Y_1 Z_2 Z_4 - \frac{1}{8} \times X_0 Y_1 Z_2 Z_3 Z_4
» error: 0
    test @ Rx<sub>0</sub>[x]
\rightarrow output: -\frac{x X_0}{2}
» error: 0
    test @ C_{1,2}@Ry_0[x]
» output: -\frac{x Y_0}{8} + \frac{1}{8} x Y_0 Z_1 + \frac{1}{8} x Y_0 Z_2 - \frac{1}{8} x Y_0 Z_1 Z_2
» error: 0
    test @ C_{1,3}@Rz_{0,2}[x]
```

» output:
$$-\frac{1}{8} \times Z_0 Z_2 + \frac{1}{8} \times Z_0 Z_1 Z_2 + \frac{1}{8} \times Z_0 Z_2 Z_3 - \frac{1}{8} \times Z_0 Z_1 Z_2 Z_3$$

test @ T₀

$$\Rightarrow$$
 output: $\frac{\pi \operatorname{Id}_0}{8} - \frac{\pi \operatorname{Z}_0}{8}$

» error: 0

test@S₀

» output:
$$\frac{\pi \operatorname{Id}_0}{4} - \frac{\pi \operatorname{Z}_0}{4}$$

» error: 0

test @ $SWAP_{\theta,1}$

» output:
$$\frac{\pi \ Id_1}{4} - \frac{1}{4} \ \pi \ X_0 \ X_1 - \frac{1}{4} \ \pi \ Y_0 \ Y_1 - \frac{1}{4} \ \pi \ Z_0 \ Z_1$$

» error: 0

test@X₀

$$\Rightarrow$$
 output: $\frac{\pi \text{ Id}_0}{2} - \frac{\pi \text{ X}_0}{2}$

» error: 0

test @ Y_{θ}

$$\Rightarrow$$
 output: $\frac{\pi \text{ Id}_0}{2} - \frac{\pi \text{ Y}_0}{2}$

» error: 0

test @ Z_{θ}

$$\Rightarrow$$
 output: $\frac{\pi \text{ Id}_0}{2} - \frac{\pi \text{ Z}_0}{2}$

» error: 0

Superoperators

(* non-unitary, so coefficients are complex *)

test @ Damp₀[x]

$$\begin{array}{l} \text{ output: } & \frac{1}{4} \left(-2 \ \text{i} \ \text{Log} \big[\ \sqrt{1-x} \ \big] - \text{i} \ \text{Log} \big[1-x \big] \right) \ \text{Id}_1 + \\ \\ & \frac{1}{4} \ \text{i} \ \text{Log} \big[1-x \big] \ \text{X}_0 \ \text{X}_1 - \frac{1}{4} \ \text{Log} \big[1-x \big] \ \text{X}_1 \ \text{Y}_0 - \frac{1}{4} \ \text{Log} \big[1-x \big] \ \text{X}_0 \ \text{Y}_1 - \frac{1}{4} \ \text{i} \ \text{Log} \big[1-x \big] \ \text{Y}_0 \ \text{Y}_1 + \\ \\ & \frac{1}{4} \ \text{i} \ \text{Log} \big[1-x \big] \ \text{Z}_0 + \frac{1}{4} \ \text{i} \ \text{Log} \big[1-x \big] \ \text{Z}_1 + \frac{1}{4} \ \left(2 \ \text{i} \ \text{Log} \big[\sqrt{1-x} \ \big] - \text{i} \ \text{Log} \big[1-x \big] \right) \ \text{Z}_0 \ \text{Z}_1 \end{array}$$

» error: 0

test @ Deph_o[x]

» output:
$$-\frac{1}{2}$$
 i Log[1 - 2 x] Id₁ + $\frac{1}{2}$ i Log[1 - 2 x] Z₀ Z₁

test @ Deph_{0,1}[x]

» output:

$$-\frac{3}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Id}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_1 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_0 \text{Z}_1 \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_1 \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_1 \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_1 \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_2 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_3 + \frac{1}$$

» error: 0

test @ Depol_a[x]

» output:

$$-\frac{3}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Id}_{1} + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{X}_{0} \text{X}_{1} - \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Y}_{0} \text{Y}_{1} + \frac{1}{4} \pm \text{Log} \left[1 - \frac{4 \times 3}{3}\right] \text{Z}_{0} \text{Z}_{1}$$

test @ Depol_{0.1}[x]

» error: 0

$$\mathsf{test} \; @ \; \mathsf{Kraus_0@} \; \Big\{ \; \left(\begin{smallmatrix} \mathbf{1} & \mathbf{0} \\ \mathbf{0} & \sqrt{\mathbf{1} - \mathbf{x}} \end{smallmatrix} \right), \; \left(\begin{smallmatrix} \mathbf{0} & \sqrt{\mathbf{x}} \\ \mathbf{0} & \mathbf{0} \end{smallmatrix} \right) \; \Big\}$$

```
 \text{ output: } \frac{1}{4} \left( -\, \mathrm{i} \, \mathsf{Log} \big[ \, \sqrt{1-x} \, \, \big] \, -\, \mathrm{i} \, \mathsf{Log} \big[ \, \mathsf{Conjugate} \big[ \, \sqrt{1-x} \, \, \big] \, \big] \, -\, \mathrm{i} \, \mathsf{Log} \big[ \, \sqrt{1-x} \, \, \mathsf{Conjugate} \big[ \, \sqrt{1-x} \, \, \big] \, \big] \right) \, \mathsf{Id}_1 \, -\, \mathsf{id}_2 \, \mathsf{Id}_3 \, -\, \mathsf{id}_3 \, \mathsf{Id}_4 \, -\, \mathsf{id}_4 \mathsf{
                                                                                        4\left(-1+\sqrt{1-x} \text{ Conjugate}\left[\sqrt{1-x}\right]\right)
                                                                                        \frac{\sqrt{x} \ \mathsf{Conjugate} \left[ \ \sqrt{x} \ \right] \ \mathsf{Log} \left[ \ \sqrt{1-x} \ \mathsf{Conjugate} \left[ \ \sqrt{1-x} \ \right] \ \right] \ \mathsf{X_1} \ \mathsf{Y_0}}{4 \ \left( -1 + \sqrt{1-x} \ \mathsf{Conjugate} \left[ \ \sqrt{1-x} \ \right] \right)} \ +
                                                                                           \sqrt{x} Conjugate \left[\sqrt{x}\right] Log \left[\sqrt{1-x}\right] Conjugate \left[\sqrt{1-x}\right] \left[\sqrt{1-x}\right]
                                                                                                                                                                                                                                                                     4\left(-1+\sqrt{1-x} \text{ Conjugate}\left[\sqrt{1-x}\right]\right)
                                                                                   \frac{\text{i} \ \sqrt{\text{x}} \ \text{Conjugate} \left[ \ \sqrt{\text{x}} \ \right] \ \text{Log} \left[ \ \sqrt{\text{1} - \text{x}} \ \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \right] \ \text{Y}_0 \ \text{Y}_1}{\text{4} \ \left( - \ \text{1} + \sqrt{\text{1} - \text{x}} \ \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \right)} \ + \frac{1}{2} \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text{Conjugate} \left[ \ \sqrt{\text{1} - \text{x}} \ \right] \ \text
                                                                                      \frac{1}{4} \left( \text{i} \, \mathsf{Log} \big[ \, \sqrt{1-x} \, \, \big] \, - \, \text{i} \, \mathsf{Log} \big[ \, \mathsf{Conjugate} \big[ \, \sqrt{1-x} \, \, \big] \, \big] \, + \, \text{i} \, \mathsf{Log} \big[ \, \sqrt{1-x} \, \, \mathsf{Conjugate} \big[ \, \sqrt{1-x} \, \, \big] \, \big] \right) \, \mathsf{Z}_{\mathsf{0}} \, + \, \mathsf{Z}_{
                                                                                 \frac{1}{a} \left( - \, \text{i} \, \mathsf{Log} \left[ \, \sqrt{1 - x} \, \, \right] \, + \, \text{i} \, \mathsf{Log} \left[ \, \mathsf{Conjugate} \left[ \, \sqrt{1 - x} \, \, \right] \, \right] \, + \, \text{i} \, \mathsf{Log} \left[ \, \sqrt{1 - x} \, \, \mathsf{Conjugate} \left[ \, \sqrt{1 - x} \, \, \right] \, \right] \right) \, \mathsf{Z}_1 \, + \, \mathsf{Z}_2 \, + \, \mathsf{Z}_3 \, + \, \mathsf{Z}_4 \, + \, \mathsf{
                                                                                   \frac{1}{4} \left( \text{$i$ Log} \left[ \sqrt{1-x} \; \right] + \text{$i$ Log} \left[ \text{Conjugate} \left[ \; \sqrt{1-x} \; \right] \; \right] - \text{$i$ Log} \left[ \; \sqrt{1-x} \; \text{Conjugate} \left[ \; \sqrt{1-x} \; \right] \; \right] \right) \; Z_0 \; Z_1 = 0
  » error: 0
                                             test @ Kraus₀@ Table[
                                                                                                                                                                                         RandomVariate @ CircularUnitaryMatrixDistribution @ 2,
                                                                                      ]
     » output: (2.22045 \times 10^{-16} - 1.22889 i) Id_1 + (0.683561 + 2.77556 \times 10^{-17} i) X_0 - 1.22889 i
                                                                       (0.683561 + 4.44089 \times 10^{-16} \text{ i}) \text{ X}_1 + (6.80012 \times 10^{-16} + 0.00974008 \text{ i}) \text{ X}_0 \text{ X}_1 -
                                                                        \left( \text{0.52452} - \text{3.88578} \times \text{10}^{-16} \text{ i} \right) \text{ Y}_{\text{0}} + \left( \text{3.88578} \times \text{10}^{-16} + \text{0.239698 i} \right) \text{ X}_{1} \text{ Y}_{\text{0}} - \text{10}^{-16} + \text{
                                                                       \left(4.30211\times10^{-16}+0.572184~\text{i}\right)~Y_{0}~Y_{1}-\left(0.713183+2.77556\times10^{-16}~\text{i}\right)~Z_{0}-
                                                                         \left(\,4.\,16334\times10^{-16}\,+\,0.\,0964128\,\,\dot{\mathtt{l}}\,\right)\,\,X_{1}\,Z_{0}\,-\,\left(\,2.\,77556\times10^{-16}\,+\,0.\,0368746\,\,\dot{\mathtt{l}}\,\right)\,\,Y_{1}\,Z_{0}\,+\,36334\times10^{-16}\,+\,0.0368746\,\,\dot{\mathtt{l}}\,\right)\,\,Y_{1}\,Z_{0}\,+\,36334\times10^{-16}\,+\,0.0368746\,\,\dot{\mathtt{l}}\,\right)\,\,Y_{1}\,Z_{0}\,+\,36334\times10^{-16}\,+\,0.0368746\,\,\dot{\mathtt{l}}\,\right)\,\,Y_{1}\,Z_{0}\,+\,36334\times10^{-16}\,+\,0.0368746\,\,\dot{\mathtt{l}}\,
                                                                       \left(\textbf{0.713183} - \textbf{7.21645} \times \textbf{10}^{-16} \ \text{i}\right) \ \textbf{Z}_{1} + \left(\textbf{1.66533} \times \textbf{10}^{-16} - \textbf{0.0964128} \ \text{i}\right) \ \textbf{X}_{0} \ \textbf{Z}_{1} - \textbf{A}_{1} + \left(\textbf{1.66533} \times \textbf{10}^{-16} - \textbf{0.0964128} \ \text{i}\right) \ \textbf{X}_{0} \ \textbf{Z}_{1} - \textbf{A}_{2} + \textbf{A}_{3} + \textbf{A}_{3} + \textbf{A}_{4} + \textbf{A}_{3} + \textbf{A}_{4} + \textbf{A}_
                                                                       (8.32667 \times 10^{-17} - 0.0368746 \text{ i}) \text{ Y}_0 \text{ Z}_1 - (4.44089 \times 10^{-16} + 0.511249 \text{ i}) \text{ Z}_0 \text{ Z}_1
     » error: 0
                                             test @ Kraus<sub>0,1</sub>@ Table[
                                                                                                                                                                                           RandomVariate @ CircularUnitaryMatrixDistribution @ 4,
                                                                                                                                                                                           10
                                                                                        ]
     » output: (0.392699 - 0.788204 i) Id<sub>3</sub> + (0.0967006 - 0.125715 i) X<sub>0</sub> +
                                                                       (\textbf{0.184379} - \textbf{0.0999634}\,\,\dot{\textbf{1}}) \ \ \textbf{X}_{1} + \ (\textbf{0.0278612} - \textbf{0.000200521}\,\,\dot{\textbf{1}}) \ \ \textbf{X}_{0} \ \textbf{X}_{1} - \\
                                                                     (\textbf{0.113723} - \textbf{0.301317}\,\,\dot{\textbf{1}})\,\,X_2 + \,(\textbf{0.0844504} - \textbf{0.107149}\,\,\dot{\textbf{1}})\,\,X_0\,\,X_2 + \,(\textbf{0.0837353} - \textbf{0.106058}\,\,\dot{\textbf{1}})\,\,X_1\,X_2 + \,(\textbf{0.0837353} - \textbf{0.106058}\,\,\dot{\textbf{1}})\,\,X_1\,\,X_2 + \,(\textbf{0.0837353} - \textbf{0.106058}\,\,\dot{\textbf{1}})\,\,X_2 + \,(\textbf{0.0837353} - \textbf{0.106058}\,\,\dot{\textbf{1}})\,\,X_3 + \,(\textbf{0.0837353} - \textbf{0.106058}\,\,\dot{\textbf{1}})\,\,X_4 + \,(\textbf{0.0
                                                                        (0.0933613 - 0.0434643 \pm) \ X_0 \ X_1 \ X_2 - (0.301648 - 0.140564 \pm) \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X_3 + (0.121154 + 0.152919 \pm) \ X_0 \ X
                                                                    (\,\textbf{0.0480035}\,-\,\textbf{0.112296}\,\,\dot{\mathtt{1}}\,)\ \ X_{1}\,\,X_{3}\,-\,\,(\,\textbf{0.164283}\,+\,\textbf{0.187907}\,\,\dot{\mathtt{1}}\,)\ \ X_{0}\,\,X_{1}\,\,X_{3}\,+\,\,
                                                                       (\textbf{0.159561} + \textbf{0.00148002}\,\,\dot{\textbf{1}}) \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{0} \,\, X_{1} \,\, X_{2} \,\, X_{3} \,+ \,\, (\textbf{0.0142665} \,-\, \textbf{0.20248}\,\,\dot{\textbf{1}}) \,\, X_{1} \,\, X_{2} \,\, X_{3} \,\, X_{3
                                                                        (0.388671 - 0.125209 \pm) \ Y_0 - (0.219879 + 0.0970196 \pm) \ X_1 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_1 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_1 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.0308771 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y_0 - (0.030871 + 0.126308 \pm) \ X_2 \ Y
```

```
(0.104775 - 0.194904 \pm) X_1 X_2 Y_0 + (0.0194429 - 0.090986 \pm) X_3 Y_0 +
     (\,\textbf{0.319897}\,+\,\textbf{0.26307}\,\,\dot{\mathtt{1}}\,)\,\,\,X_{1}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{1}\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.207589}\,+\,\textbf{0.0372499}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.20759}\,+\,\textbf{0.20759}\,+\,\textbf{0.20759}\,+\,\textbf{0.20759}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.20759}\,+\,\textbf{0.20759}\,+\,\textbf{0.20759}\,+\,\textbf{0.20759}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.20759}\,+\,\textbf{0.20759}\,+\,\textbf{0.20759}\,+\,\textbf{0.20759}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Y_{0}\,+\,\,(\,\textbf{0.20759}\,+\,\textbf{0.20759}\,+\,\textbf{0.20759}\,+\,\textbf{0.20759}\,+\,\textbf{0.20759}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt{1}}\,\,\dot{\mathtt
     (0.0491627 + 0.0847181 \pm) X_1 X_2 X_3 Y_0 + (0.149215 - 0.146117 \pm) Y_1 +
     (0.0730206 + 0.0817739 \pm) \ X_0 \ Y_1 - (0.0619015 + 0.0628647 \pm) \ X_2 \ Y_1 + (0.0619015 + 0.0628647 \pm) \ X_2 \ Y_2 + (0.0619015 + 0.0628647 \pm) \ X_3 \ Y_4 + (0.0619015 + 0.0628647 \pm) \ X_4 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.0628647 \pm) \ X_5 \ Y_5 + (0.0619015 + 0.062867 \pm) \ X_5 \ Y_5 + (0.06
     (0.0291738 + 0.182245 \pm) \ X_0 \ X_2 \ Y_1 + (0.0334577 + 0.126527 \pm) \ X_3 \ Y_1 + (0.0334577 + 0.126527 \pm) \ X_3 \ Y_1 + (0.0334577 + 0.126527 \pm) \ X_3 \ Y_2 + (0.0334577 + 0.126527 \pm) \ X_3 \ Y_3 + (0.0334577 + 0.126527 \pm) \ X_3 \ Y_4 + (0.0334577 + 0.126527 \pm) \ X_3 \ Y_4 + (0.0334577 + 0.126527 \pm) \ X_3 \ Y_4 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.0334577 + 0.126527 \pm) \ X_5 \ Y_5 + (0.033477 + 0.126527 \pm) \ X_5 \ Y_5 + (0.033477 + 0.126527 \pm) \ X_5 \ Y_5 + (0.033477 + 
     (\,\textbf{0.085266}\,+\,\textbf{0.210388}\,\,\dot{\textbf{1}}\,)\  \, \textbf{X}_{\textbf{0}}\,\,\textbf{X}_{\textbf{3}}\,\,\textbf{Y}_{\textbf{1}}\,-\,\,(\,\textbf{0.109239}\,-\,\textbf{0.0896142}\,\,\dot{\textbf{1}}\,)\  \, \textbf{X}_{\textbf{2}}\,\,\textbf{X}_{\textbf{3}}\,\,\textbf{Y}_{\textbf{1}}\,-\,\,
  (\,\textbf{0.0603119}\,-\,\textbf{0.0479994}\,\,\dot{\textbf{1}}\,)\ \ \textbf{X}_{\textbf{0}}\ \textbf{X}_{\textbf{2}}\ \textbf{X}_{\textbf{3}}\ \textbf{Y}_{\textbf{1}}\,+\,\,(\,\textbf{0.0204843}\,+\,\textbf{0.0413903}\,\,\dot{\textbf{1}}\,)\ \ \textbf{Y}_{\textbf{0}}\ \textbf{Y}_{\textbf{1}}\,-\,\,\textbf{0.0413903}\,\,\dot{\textbf{1}}\,)
     (0.129243 - 0.0490667 \pm) X_2 X_3 Y_0 Y_1 + (0.387755 - 0.0148325 \pm) Y_2 +
     (0.0759443 + 0.177558 \pm) X_0 Y_2 + (0.0729078 + 0.00302124 \pm) X_1 Y_2 +
     (0.0233371 - 0.116777 \pm) \ X_0 \ X_1 \ Y_2 - (0.176558 - 0.0705307 \pm) \ X_3 \ Y_2 -
  (\textbf{0.174414} + \textbf{0.0512663}\,\,\dot{\textbf{1}}) \ \ \textbf{X}_{\textbf{0}} \ \textbf{X}_{\textbf{3}} \ \textbf{Y}_{\textbf{2}} - \ (\textbf{0.281351} - \textbf{0.101811}\,\,\dot{\textbf{1}}) \ \ \textbf{X}_{\textbf{1}} \ \textbf{X}_{\textbf{3}} \ \textbf{Y}_{\textbf{2}} -
     (\,\textbf{0.162741}\,-\,\textbf{0.175021}\,\,\dot{\mathtt{1}}\,)\ \ X_{0}\ X_{1}\ X_{3}\ Y_{2}\,-\,\,(\,\textbf{0.131703}\,-\,\textbf{0.0253568}\,\,\dot{\mathtt{1}}\,)\ \ Y_{0}\ Y_{2}\,-\,\,
     (\textbf{0.0493656} + \textbf{0.0322319} \ \underline{\text{i}}) \ X_{1} \ Y_{0} \ Y_{2} + \ (\textbf{0.0241071} + \textbf{0.0577216} \ \underline{\text{i}}) \ X_{3} \ Y_{0} \ Y_{2} - \\
     (0.0473751 - 0.0227716 i) X_1 X_3 Y_0 Y_2 + (0.0282265 - 0.162902 i) Y_1 Y_2 -
     (0.244029 - 0.0552397 \, \text{i}) \, X_0 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.118228 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.11828 \, \text{i}) \, X_3 \, Y_1 \, Y_2 - (0.209727 + 0.11828 \, \text{i}) \, X_3 \,
     (0.111494 + 0.137343 \pm) X_0 X_3 Y_1 Y_2 + (0.154124 + 0.0703164 \pm) Y_0 Y_1 Y_2 +
     (\,\textbf{0.048284}\,-\,\textbf{0.116779}\,\,\dot{\mathbb{1}}\,)\ \ X_{3}\ Y_{0}\ Y_{1}\ Y_{2}\,+\,\,(\,\textbf{0.121716}\,+\,\textbf{0.0316163}\,\,\dot{\mathbb{1}}\,)\ \ Y_{3}\,+\,
  (0.193857 + 0.0953305 \pm) X_0 Y_3 + (0.14552 + 0.0148649 \pm) X_1 Y_3 -
     (0.34649 + 0.13327 \pm) X_0 X_1 Y_3 + (0.0129109 - 0.209901 \pm) X_2 Y_3 +
  (0.0717183 + 0.045016 i) X_0 X_2 Y_3 + (0.0771634 + 0.13191 i) X_1 X_2 Y_3 -
     (0.169984 + 0.0856401 \,\, \mathring{\text{1}}) \,\, X_0 \,\, X_1 \,\, X_2 \,\, Y_3 - \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_3 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y_0 \,\, Y_0 \,\, Y_0 \,\, + \,\, (0.116867 - 0.0845557 \,\, \mathring{\text{1}}) \,\, Y_0 \,\, Y
     (\textbf{0.127109} - \textbf{0.0217103}\,\,\dot{\textbf{1}}) \,\,\, \textbf{X}_{1}\,\,\textbf{X}_{2}\,\,\textbf{Y}_{0}\,\,\textbf{Y}_{3} \,+\,\, (\textbf{0.21644} \,+\, \textbf{0.195854}\,\,\dot{\textbf{1}}) \,\,\, \textbf{Y}_{1}\,\,\textbf{Y}_{3}\,\,+\,\, \textbf{Y}_{3}\,\,\dot{\textbf{Y}}_{1}\,\,\dot{\textbf{Y}}_{2}\,\,\dot{\textbf{Y}}_{3} \,\,\,\dot{\textbf{Y}}_{3}\,\,\dot{\textbf{Y}}_{3} \,\,\dot{\textbf{Y}}_{3} \,\,\dot{\textbf{Y}}_
     ( \ 0.0458996 - 0.077467 \ \dot{\mathbb{1}} \ ) \ \ X_0 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_2 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_2 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_2 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_2 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_2 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_2 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_2 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_2 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_3 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_3 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_3 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_3 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_3 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_1 \ Y_3 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_1 \ Y_2 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_1 \ Y_2 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_1 \ Y_2 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_1 \ Y_2 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_1 \ Y_2 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_1 \ Y_2 \ + \ ( \ 0.0301136 \ + \ 0.0924021 \ \dot{\mathbb{1}} \ ) \ \ X_4 \ Y_2 \ Y_3 \ Y_3 \ Y_2 \ Y_3 \ Y
  (0.0863545 + 0.171016 \pm) X_0 X_2 Y_1 Y_3 + (0.130128 - 0.127814 \pm) Y_0 Y_1 Y_3 -
     (0.0537432 + 0.0760658 \pm) X_2 Y_0 Y_1 Y_3 - (0.124054 + 0.147731 \pm) Y_2 Y_3 +
     (0.00920913 + 0.184613 \pm) \ X_0 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_1 \ Y_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_2 \ Y_3 - (0.0183465 - 0.210915 \pm) \ X_3 \ Y_3 \ 
  (\textbf{0.100371} - \textbf{0.00618587} \; \text{\^{1}}) \; \; \textbf{X_0} \; \textbf{X_1} \; \textbf{Y_2} \; \textbf{Y_3} \; + \; (\textbf{0.263894} - \textbf{0.130642} \; \text{\^{1}}) \; \; \textbf{Y_0} \; \textbf{Y_2} \; \textbf{Y_3} \; - \; \textbf{0.130642} \; \text{\^{1}}) \; \; \textbf{Y_0} \; \textbf{Y_2} \; \textbf{Y_3} \; - \; \textbf{0.130642} \; \text{\^{1}}) \; \; \textbf{Y_0} \; \textbf{Y_2} \; \textbf{Y_3} \; - \; \textbf{0.130642} \; \text{\^{1}}) \; \; \textbf{Y_0} \; \textbf{Y_2} \; \textbf{Y_3} \; - \; \textbf{0.130642} \; \text{\^{1}}) \; \; \textbf{Y_0} \; \textbf{Y_2} \; \textbf{Y_3} \; - \; \textbf{0.130642} \; \text{\^{1}}) \; \; \textbf{Y_0} \; \textbf{Y_2} \; \textbf{Y_3} \; - \; \textbf{0.130642} \; \text{\^{1}}) \; \; \textbf{Y_0} \; \textbf{Y_2} \; \textbf{Y_3} \; - \; \textbf{0.130642} \; \text{\r{1}}) \; \; \textbf{Y_0} \; \textbf{Y_2} \; \textbf{Y_3} \; - \; \textbf{0.130642} \; \textbf{Y_0} \; 
     (0.163261 - 0.0912035 \pm) \ X_1 \ Y_0 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_1 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_3 \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_2 \ Y_3 - (0.108397 + 0.125756 \pm) \ Y_3 \
  (\textbf{0.0155428} - \textbf{0.199989} \ \dot{\textbf{1}}) \ \ X_0 \ Y_1 \ Y_2 \ Y_3 - \ (\textbf{0.0928119} - \textbf{0.0133456} \ \dot{\textbf{1}}) \ \ Y_0 \ Y_1 \ Y_2 \ Y_3 + \textbf{0.0133456} \ \dot{\textbf{1}}) \ \ Y_0 \ Y_1 \ Y_2 \ Y_3 + \textbf{0.0133456} \ \dot{\textbf{1}}) \ \ Y_0 \ Y_1 \ Y_2 \ Y_3 + \textbf{0.0133456} \ \dot{\textbf{1}}) \ \ \dot{\textbf{1}} \ \
     (0.012258 - 0.172403 \pm) \ Z_0 + (0.0792935 + 0.0718635 \pm) \ X_1 \ Z_0 + (0.221004 - 0.0825756 \pm) \ X_2 \ Z_0 + (0.012258 - 0.0172403 \pm) \ Z_0 + (0.012258 - 0.01724
     (0.00795677 + 0.130769 \pm) X_1 X_2 Z_0 - (0.00317011 + 0.0223506 \pm) X_3 Z_0 - (0.00317011 + 0.0223506 \pm) X_3 Z_0 - (0.00317011 + 0.0223506 \pm) X_0 Z_0 - (0.00317011 + 0.00223506 \pm) X_0 Z_0 - (0.00317011 + 0.0022506 \pm) X_0 Z_0 - (0.00317011 + 0.002506 \pm) X_0 Z_0 - (0.003170111
     (\textbf{0.183688} - \textbf{0.263334}\,\,\dot{\mathbb{1}}) \ \ X_{1} \ X_{3} \ Z_{0} + \ (\textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{1} \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{1} \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{1} \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{2} \ X_{3} \ Z_{0} - \textbf{0.0264097} + \textbf{0.0602293}\,\,\dot{\mathbb{1}}) \ \ X_{3} 
     (\,\textbf{0.100799}\,-\,\textbf{0.017336}\,\,\dot{\textbf{1}}\,)\,\,\,X_{1}\,\,X_{2}\,\,X_{3}\,\,Z_{\theta}\,-\,\,(\,\textbf{0.0875981}\,+\,\textbf{0.044493}\,\,\dot{\textbf{1}}\,)\,\,\,Y_{1}\,\,Z_{\theta}\,\,+\,\,
  (0.100788 - 0.0581249 \pm) X_2 Y_1 Z_0 + (0.0656695 + 0.0845586 \pm) X_3 Y_1 Z_0 +
     (\,\textbf{0.15461}\,-\,\textbf{0.186257}\,\,\dot{\mathtt{1}}\,)\ \ X_{2}\ X_{3}\ Y_{1}\ Z_{0}\,-\,(\,\textbf{0.0412028}\,-\,\textbf{0.0551023}\,\,\dot{\mathtt{1}}\,)\ \ Y_{2}\ Z_{0}\,+\,
  (0.0622955 - 0.00253203 \pm) X_1 Y_2 Z_0 - (0.313465 - 0.157055 \pm) X_3 Y_2 Z_0 +
     (0.0689824 - 0.0983797 \pm) \ X_1 \ X_3 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 0.172856 \pm) \ Y_1 \ Y_2 \ Z_0 + \ (0.126765 + 
  (0.289796 - 0.155365 \pm) X_3 Y_1 Y_2 Z_0 + (0.143475 + 0.0302876 \pm) Y_3 Z_0 -
     (\textbf{0.117984} - \textbf{0.00764187}\,\,\dot{\textbf{1}}) \,\,\, \textbf{X}_{1} \,\, \textbf{Y}_{3} \,\, \textbf{Z}_{0} \,\,+\,\, (\textbf{0.0344148} - \textbf{0.0744184}\,\,\dot{\textbf{1}}) \,\,\, \textbf{X}_{2} \,\, \textbf{Y}_{3} \,\, \textbf{Z}_{0} \,\,-\,\, \textbf{X}_{1} \,\,\, \textbf{Y}_{2} \,\, \textbf{Y}_{3} \,\, \textbf{Z}_{0} \,\,+\,\, \textbf{Y}_{1} \,\,\, \textbf{Y}_{2} \,\,\, \textbf{Y}_{3} \,\,\, \textbf{Y}_{3} \,\,\, \textbf{Z}_{0} \,\,+\,\, \textbf{Y}_{1} \,\,\, \textbf{Y}_{2} \,\,\, \textbf{Y}_{3} \,\,\, \textbf{Y}_{3} \,\,\, \textbf{Y}_{3} \,\,\, \textbf{Z}_{0} \,\,+\,\, \textbf{Y}_{1} \,\,\, \textbf{Y}_{2} \,\,\, \textbf{Y}_{3} 
  (\textbf{0.0449792} + \textbf{0.153595}\,\,\text{\^{1}}) \,\,\,\textbf{X_{1}}\,\,\textbf{X_{2}}\,\,\textbf{Y_{3}}\,\,\textbf{Z_{0}} \,+\,\, (\textbf{0.0843795} \,+\, \textbf{0.018592}\,\,\text{\^{1}}) \,\,\,\textbf{Y_{1}}\,\,\textbf{Y_{3}}\,\,\textbf{Z_{0}} \,+\,\, \textbf{X_{2}}\,\,\text{Y_{3}}\,\,\textbf{Z_{0}} \,+\,\, \textbf{X_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}\,\,\text{Y_{3}}
(\textbf{0.125322} - \textbf{0.0423371} \; \text{\^{1}}) \;\; \textbf{X}_{2} \; \textbf{Y}_{1} \; \textbf{Y}_{3} \; \textbf{Z}_{0} \; + \; (\textbf{0.0649242} \; + \; \textbf{0.268432} \; \text{\^{1}}) \;\; \textbf{Y}_{2} \; \textbf{Y}_{3} \; \textbf{Z}_{0} \; + \; \textbf{A}_{1} \; \textbf{A}_{2} \; \textbf{A}_{2} \; \textbf{A}_{3} \; \textbf
  (\textbf{0.0167435} + \textbf{0.01368}\,\,\dot{\mathbb{1}}) \,\,\, \textbf{X}_{1}\,\, \textbf{Y}_{2}\,\, \textbf{Y}_{3}\,\, \textbf{Z}_{0} \,-\,\, (\textbf{0.162478} \,+\, \textbf{0.0727465}\,\,\dot{\mathbb{1}}) \,\,\, \textbf{Y}_{1}\,\, \textbf{Y}_{2}\,\, \textbf{Y}_{3}\,\, \textbf{Z}_{0} \,+\,\, \textbf{Y}_{2}\,\, \textbf{Y}_{3}\,\, \textbf{Y}_{3}\,\, \textbf{Y}_{3}\,\, \textbf{Y}_{3} \,\, \textbf{Y}_{3}\,\, \textbf{Y}_{3} \,\, \textbf{Y}_{3}\,\, \textbf{Y}_{3} \,\, \textbf{Y}_{3
  (0.05368 - 0.00692728 i) Z_1 + (0.0082131 + 0.0496404 i) X_0 Z_1 +
     (0.113897 - 0.0578037 \pm) X_2 Z_1 + (0.243332 - 0.129957 \pm) X_0 X_2 Z_1 +
     (0.126699 + 0.0288975 \pm) X_3 Z_1 - (0.00437977 - 0.0381475 \pm) X_0 X_3 Z_1 +
  (\textbf{0.262412} + \textbf{0.0336572} \; \underline{\text{i}}) \;\; Y_0 \; Z_1 - \; (\textbf{0.0733418} + \textbf{0.161417} \; \underline{\text{i}}) \;\; X_2 \; Y_0 \; Z_1 \; + \;\; X_3 \; Z_1 \; - \;\; X_3 \; Z_1 \; + \;\; X_3 \; Z_2 \; Z_1 \; + \;\; X_3 \; Z_1 \; + \;\; X_3 \; Z_2 \; Z_1 \; + \;\; X_3 \; Z_2 \; Z_2 \; Z_3 
  (\textbf{0.0374862} - \textbf{0.0130858}\,\, \dot{\textbf{1}}) \,\, \textbf{X}_{3} \,\, \textbf{Y}_{0} \,\, \textbf{Z}_{1} \,+\, (\textbf{0.307553} \,-\, \textbf{0.132099}\,\, \dot{\textbf{1}}) \,\, \textbf{X}_{2} \,\, \textbf{X}_{3} \,\, \textbf{Y}_{0} \,\, \textbf{Z}_{1} \,-\, \textbf{X}_{2} \,\, \textbf{X}_{3} \,\, \textbf{Y}_{0} \,\, \textbf{Z}_{1} \,\, \textbf{X}_{2} \,\, \textbf{Z}_{3} \,\, \textbf{Z}_{1} \,\, \textbf{Z}_{2} \,\, \textbf{Z}_{3} \,\, 
     (0.082675 - 0.0179072 \pm) \ Y_2 \ Z_1 + (0.0337695 + 0.0289139 \pm) \ X_0 \ Y_2 \ Z_1 +
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(0.213034 + 0.0467637 \text{ i}) X_3 Y_2 Z_1 - (0.305141 + 0.094518 \text{ i}) X_0 X_3 Y_2 Z_1 +
      (\textbf{0.394488} - \textbf{0.0194259}\,\,\dot{\textbf{1}}) \ \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ Y_2 \ Z_1 + \ (\textbf{0.009109} + \textbf{0.0738722}\,\,\dot{\textbf{1}}) \ \ X_3 \ Y_0 \ 
      (0.0291045 + 0.0148401 \pm) Y_3 Z_1 + (0.163487 - 0.0867468 \pm) X_0 Y_3 Z_1 +
      (\textbf{0.0356035} + \textbf{0.137596} \pm) \ \textbf{X}_{2} \ \textbf{Y}_{3} \ \textbf{Z}_{1} + (\textbf{0.0104232} - \textbf{0.0166613} \pm) \ \textbf{X}_{0} \ \textbf{X}_{2} \ \textbf{Y}_{3} \ \textbf{Z}_{1} - \textbf{0.0166613} \pm) \ \textbf{X}_{0} \ \textbf{X}_{2} \ \textbf{Y}_{3} \ \textbf{Z}_{1} - \textbf{0.0166613} \pm) \ \textbf{X}_{0} \ \textbf{X}_{2} \ \textbf{Y}_{3} \ \textbf{Z}_{1} - \textbf{0.0166613} \pm) \ \textbf{X}_{0} \ \textbf{X}_{2} \ \textbf{Y}_{3} \ \textbf{X}_{2} \ \textbf{Y}_{3} \ \textbf{X}_{1} - \textbf{0.0166613} \pm) \ \textbf{X}_{1} \ \textbf{X}_{2} \ \textbf{X}_{3} \ \textbf{X}_{3} \ \textbf{X}_{4} \ \textbf{X}_{5} \ \textbf{
      (\,\textbf{0.251575}\,+\,\textbf{0.02275}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{0}\,\,Y_{3}\,\,Z_{1}\,-\,\,(\,\textbf{0.137396}\,+\,\textbf{0.231387}\,\,\dot{\mathtt{1}}\,)\,\,\,X_{2}\,\,Y_{0}\,\,Y_{3}\,\,Z_{1}\,+\,\,X_{1}\,\,\,\dot{X}_{2}\,\,X_{1}\,\,\dot{X}_{2}\,\,\dot{X}_{3}\,\,\dot{X}_{1}\,\,\dot{X}_{2}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_{3}\,\,\dot{X}_
      (0.0256903 + 0.0246108 \pm) Y_0 Y_2 Y_3 Z_1 - (0.125615 - 0.0458112 \pm) Z_0 Z_1 +
      (0.091672 + 0.00244276 i) X_2 Z_0 Z_1 - (0.0683081 - 0.0610363 i) X_3 Z_0 Z_1 +
      (0.0396182 + 0.0635323 \pm) \ X_2 \ X_3 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.0814928 \pm) \ Y_2 \ Z_0 \ Z_1 - (0.00798425 - 0.08
      (0.302461 + 0.0300223 \pm) \ X_3 \ Y_2 \ Z_0 \ Z_1 - (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_3 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Y_2 \ Z_0 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Z_1 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Z_1 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Z_1 \ Z_1 + (0.00863763 + 0.185461 \pm) \ Z_1 \
   (\textbf{0.0592944} + \textbf{0.0716178}\,\,\dot{\textbf{1}}) \ Z_2 - (\textbf{0.0163462} - \textbf{0.220438}\,\,\dot{\textbf{1}}) \ X_0 \ Z_2 -
      (\,\textbf{0.0921145}\,-\,\textbf{0.029034}\,\,\dot{\mathtt{1}}\,)\ \ X_{1}\,\,Z_{2}\,-\,\,(\,\textbf{0.0413391}\,-\,\textbf{0.068979}\,\,\dot{\mathtt{1}}\,)\ \ X_{0}\,\,X_{1}\,\,Z_{2}\,+\,
   (\textbf{0.0846124} + \textbf{0.0911488}\,\,\dot{\textbf{1}}) \ \ \textbf{X}_{3} \ \textbf{Z}_{2} - \ (\textbf{0.0600475} + \textbf{0.0140024}\,\,\dot{\textbf{1}}) \ \ \textbf{X}_{0} \ \textbf{X}_{3} \ \textbf{Z}_{2} + \\
      (0.135948 - 0.103332 \pm) X_1 X_3 Z_2 - (0.0400688 + 0.00787622 \pm) X_0 X_1 X_3 Z_2 +
      (0.0391413 - 0.0245469 \,\dot{\mathbb{1}}) \,\, Y_0 \,\, Z_2 - \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 + 0.0951658 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Y_0 \,\, Z_2 + \,\, (0.0702704 \,\dot{\mathbb{1}}) \,\, X_1 \,\, Z_2 + \,\, (0.07
      (0.113804 - 0.0563423 \pm) X_3 Y_0 Z_2 - (0.165769 + 0.0131844 \pm) X_1 X_3 Y_0 Z_2 +
      (0.286537 + 0.000570491 \pm) \ Y_1 \ Z_2 - (0.235762 - 0.0589613 \pm) \ X_0 \ Y_1 \ Z_2 -
   (0.0863246 + 0.0639564 \pm) \ X_3 \ Y_1 \ Z_2 - \ (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.0195507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.019507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.019507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.019507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.019507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.019507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.019507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.019507 + 0.169033 \pm) \ X_0 \ X_3 \ Y_1 \ Z_2 + (0.019507 + 0.169033 \pm) \ X_0 \ X_1 \ X_2 \ X_3 \ Y_1 \ Z_2 + (0.019507 + 0.169033 \pm) \ X_1 \ X_2 \ X_3 \ X_3 \ X_1 \ X_2 \ X_3 
      (0.124421 - 0.273126 \pm) \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - (0.229076 - 0.140783 \pm) \ X_3 \ Y_0 \ Y_1 \ Z_2 - 
   (\,\textbf{0.108642}\,+\,\textbf{0.0713794}\,\,\dot{\textbf{1}}\,)\,\,\,Y_{3}\,\,Z_{2}\,-\,\,(\,\textbf{0.310601}\,-\,\textbf{0.0510231}\,\,\dot{\textbf{1}}\,)\,\,\,X_{0}\,\,Y_{3}\,\,Z_{2}\,\,+\,\,
      (0.107262 - 0.115001 \pm) \ X_1 \ Y_3 \ Z_2 + (0.26597 - 0.160712 \pm) \ X_0 \ X_1 \ Y_3 \ Z_2 + (0.26597 - 0.160712 \pm) \ X_2 \ X_3 \ X_4 \ Y_3 \ Z_4 + (0.26597 - 0.160712 \pm) \ X_3 \ X_4 \ Y_3 \ Z_4 + (0.26597 - 0.160712 \pm) \ X_5 \ X_6 \ X_7 \ X_8 \ X_8 \ X_8 \ X_8 \ X_9 
      (\textbf{0.278523} - \textbf{0.177374}\,\,\dot{\textbf{1}}\,)\,\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147672}\,+\,\textbf{0.117622}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{1}\,\,Y_{0}\,\,X_{2}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,\,X_{2}\,\,X_{3}\,\,Z_{2}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,X_{3}\,\,X_{3}\,\,X_{3}\,\,Z_{3}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,X_{3}\,\,X_{3}\,\,X_{3}\,\,Z_{3}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,X_{3}\,\,X_{3}\,\,X_{3}\,\,Z_{3}\,-\,\,(\textbf{0.147622}\,+\,\textbf{0.1176222}\,\,\dot{\textbf{1}}\,)\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_
   (\textbf{0.0674337} + \textbf{0.0208251}\,\,\underline{\text{i}}\,) \,\,\,Y_{1}\,\,Y_{3}\,\,Z_{2} + \,\,(\textbf{0.0311524} + \textbf{0.0496553}\,\,\underline{\text{i}}\,) \,\,\,X_{0}\,\,Y_{1}\,\,Y_{3}\,\,Z_{2} - \,\,X_{1}\,\,X_{2}\,\,X_{1}\,\,X_{2} + \,\,X_{2}\,\,X_{2}\,\,X_{2} + \,\,X_{2}\,\,X_{2}\,\,X_{2}\,\,X_{2} + \,\,X_{2}\,\,X_{2}\,\,X_{2} + \,\,X_{2}\,\,X_{2} + \,\,X_{2}\,\,X_{2}\,\,X_{2} + \,\,X_{2}\,\,X_{2} + \,X_{2}\,\,X_{2} + \,\,X_{2}\,\,X_{2} + \,\,X_{
      (\,\textbf{0.0608011}\,-\,\textbf{0.225331}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{0}\,\,Y_{1}\,\,Y_{3}\,\,Z_{2}\,-\,\,(\,\textbf{0.356581}\,+\,\textbf{0.172364}\,\,\dot{\mathtt{1}}\,)\,\,\,Z_{0}\,\,Z_{2}\,\,+\,\,C_{1}\,\,\,C_{2}\,\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_{2}\,\,C_
   (0.157567 + 0.0705031 \pm) X_1 Z_0 Z_2 + (0.0917665 - 0.0414822 \pm) X_3 Z_0 Z_2 +
      (\textbf{0.0186317} + \textbf{0.0151846} \; \text{\^{1}}) \; \; X_1 \; X_3 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_1 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_1 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_1 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_1 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_1 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Y_1 \; Z_0 \; Z_1 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Z_1 \; Z_1 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Z_1 \; Z_1 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Z_1 \; Z_1 \; Z_1 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Z_1 \; Z_1 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Z_1 \; Z_2 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; \; Z_1 \; Z_2 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; Z_2 \; Z_2 \; + \; (\textbf{0.140185} + \textbf{0.213365} \; \text{\^{1}}) \; Z_2 \; Z_2 \; + \; (\textbf{0.140185} + \textbf
      (0.0839304 - 0.0909731\,\dot{\mathtt{1}})\ X_3\ Y_1\ Z_0\ Z_2 + (0.234909 - 0.0280979\,\dot{\mathtt{1}})\ Y_3\ Z_0\ Z_2 -
   (\textbf{0.266064} + \textbf{0.065464} \; \texttt{i} \;) \; \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; X_0 \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; Z_1 \; Z_2 - \; (\textbf{0.0522208} + \textbf{0.0413837} \; \texttt{i} \;) \; \; Z_1 \;
   (0.00217206 - 0.0380492 \pm) \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ X_3 \ Z_1 \ Z_2 - \ (0.146249 + 0.0926279 \pm) \ X_0 \ 
      (\textbf{0.118092} - \textbf{0.00735392}\,\,\dot{\textbf{1}}\,) \ \ Y_0 \ Z_1 \ Z_2 + \ (\textbf{0.21839} + \textbf{0.10288}\,\,\dot{\textbf{1}}\,) \ \ X_3 \ Y_0 \ Z_1 \ Z_2 + \\
   (0.0182237 + 0.166576 \text{ i}) \text{ Y}_3 \text{ Z}_1 \text{ Z}_2 + (0.112114 + 0.166415 \text{ i}) \text{ X}_0 \text{ Y}_3 \text{ Z}_1 \text{ Z}_2 +
      (\textbf{0.165705} - \textbf{0.0245815} \ \underline{\text{i}}) \ \ \textbf{Y}_0 \ \textbf{Y}_3 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.12333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.12333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.12333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.12333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.12333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.12333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.123333} \ \underline{\text{i}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{0.0788153} - \textbf{0.1233333} \ \underline{\text{I}}) \ \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_2 - (\textbf{
      (\textbf{0.145257} - \textbf{0.0253789} \ \underline{\text{i}}) \ \ \textbf{X}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Y}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{X}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{X}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{X}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{X}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{X}_{3} \ \textbf{Z}_{0} \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319716} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.00319} - \textbf{0.0750914} \ \underline{\text{i}}) \ \ \textbf{Z}_{1} \ \textbf{Z}_{2} + \\ (\textbf{0.0
   (0.301125 + 0.184324 \pm) Z_3 + (0.077299 - 0.0233038 \pm) X_0 Z_3 -
      (\,\textbf{0.0734543}\,+\,\textbf{0.169209}\,\,\dot{\textbf{1}}\,)\,\,\,X_{1}\,\,Z_{3}\,+\,\,(\,\textbf{0.0193107}\,+\,\textbf{0.041093}\,\,\dot{\textbf{1}}\,)\,\,\,X_{0}\,\,X_{1}\,\,Z_{3}\,-\,\,
   (0.129201 - 0.149992 \pm) X_2 Z_3 + (0.0665838 - 0.142464 \pm) X_0 X_2 Z_3 +
      (0.03258 - 0.102004 \pm) \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ Z_3 - (0.426281 + 0.00638168 \pm) \ X_0 \ X_1 \ X_2 \ X_3 - (0.426281 + 0.00638168 \pm) \ X_1 \ X_2 \ X_3 - (0.426281 + 0.00638168 \pm) \ X_1 \ X_2 \ X_3 - (0.426281 + 0.00638168 \pm) \ X_2 \ X_3 - (0.426281 + 0.00638168 \pm) \ X_3 \ X
   (0.0805751 + 0.0262904 i) Y_0 Z_3 + (0.102995 + 0.106833 i) X_1 Y_0 Z_3 +
      (0.0233841 + 0.117621 \pm) \ X_2 \ Y_0 \ Z_3 + (0.129553 - 0.0838349 \pm) \ X_1 \ X_2 \ Y_0 \ Z_3 - (0.0838349 \pm) \ X_1 \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_1 \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_1 \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_1 \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_1 \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_2 \ Y_0 \ Z_3 - (0.0838341 + 0.0838349 \pm) \ X_3 \ X_2 \ Y_0 \ Z_3 - (0.0838349 \pm) \ X_3 \ X_
   (\textbf{0.00858941} - \textbf{0.140433} \; \text{\^{1}}) \; \; \textbf{X}_{2} \; \textbf{Y}_{1} \; \textbf{Z}_{3} \; + \; (\textbf{0.213556} \; + \; \textbf{0.246046} \; \text{\^{1}}) \; \; \textbf{X}_{0} \; \textbf{X}_{2} \; \textbf{Y}_{1} \; \textbf{Z}_{3} \; + \; \textbf{X}_{1} \; \textbf{X}_{2} \; \textbf{X}_{3} \; + \; \textbf{X}_{2} \; \textbf{X}_{3} \; + \; \textbf{X}_{3} \; + \; \textbf{X}_{3} 
   (0.00724796 + 0.0399417 \pm) \ Y_0 \ Y_1 \ Z_3 + \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Z_3 - \ (0.25324 + 0.0815949 \pm) \ X_2 \ Y_0 \ Y_1 \ Y_0 \ Y_1 \ Y
   (0.397101 + 0.0879622 \text{ i}) \text{ Y}_2 \text{ Z}_3 + (0.0475653 + 0.101639 \text{ i}) \text{ X}_0 \text{ Y}_2 \text{ Z}_3 +
      (0.28701 + 0.158328 \pm) X_1 Y_2 Z_3 + (0.0369655 - 0.145613 \pm) X_0 X_1 Y_2 Z_3 + (0.0369655 - 0.145613 \pm) X_0 X_1 Y_2 Z_3 + (0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.0369655 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.036965 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0.03696 - 0
   (0.10907 - 0.064299 \pm) \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_1 \ Y_0 \ Y_2 \ Z_3 - (0.265683 - 0.000158504 \pm) \ X_2 \ Y_0 \ Y_
   (0.175712 - 0.0472335 \pm) \ Y_1 \ Y_2 \ Z_3 - (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Z_3 + (0.222683 + 0.0401293 \pm) \ X_0 \ Y_1 \ Y_2 \ Y_2 \ Y_3 \ Y_1 \ Y_2 \ Y_3 \ Y_1 \ Y_2 \ Y_3 \ Y_3 \ Y_1 \ Y_2 \ Y_3 \ Y_1 \ Y_2 \ Y_3 \ Y_3 \ Y_3 \ Y_1 \ Y_2 \ Y_3 \ Y_3 \ Y_1 \ Y_2 \ Y_3 \ Y_3 \ Y_3 \ Y_1 \ Y_2 \ Y_3 \ Y
   (\textbf{0.239375} + \textbf{0.0240611}\,\,\dot{\textbf{1}}) \,\,\, Y_{0} \,\, Y_{1} \,\, Y_{2} \,\, Z_{3} \,-\,\, (\textbf{0.0725419} \,+\, \textbf{0.104172}\,\,\dot{\textbf{1}}) \,\,\, Z_{0} \,\, Z_{3} \,\,+\,\, \textbf{0.0240611}\,\,\dot{\textbf{1}}) \,\,\, Z_{0} \,\,\, Z_{3} \,\,+\,\, \textbf{0.0240611}\,\,\dot{\textbf{1}}_{0} \,\,\, Z_{0} \,\,\, Z_{0} \,\,\, Z_{0} \,\,\, Z_{0} \,\, Z_{0}
   (\,\textbf{0.153932}\,+\,\textbf{0.0757236}\,\,\dot{\mathtt{i}}\,)\ \ X_{1}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.00865591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\ \ X_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.00865591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{1}\,\,Z_{1}\,\,Z_{2}\,\,Z_{3}\,+\,\,(\,\textbf{0.00865591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.00865591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{1}\,\,Z_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.00865591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{1}\,\,Z_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.00865591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.00865591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.00865591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{1}\,\,Z_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.00865591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{1}\,\,Z_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.008665591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.008665591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.008665591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,X_{2}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.008665591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,Z_{3}\,\,Z_{3}\,\,Z_{3}\,+\,\,(\,\textbf{0.008665591}\,-\,\textbf{0.126222}\,\,\dot{\mathtt{i}}\,)\,\,Z_{3}\,\,Z_{3}\,\,Z_{3}\,\,Z_{3}\,\,Z_{3}\,\,Z_{3}\,\,Z_{3}\,\,Z_{3}\,\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{3}\,Z_{
      (0.0822344 + 0.169773 \pm) \ X_1 \ X_2 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_2 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_3 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_3 - (0.172573 - 0.0115144 \pm) \ Y_1 \ Z_0 \ Z_0
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(\,\textbf{0.112889}\,+\,\textbf{0.0443432}\,\,\dot{\mathtt{1}}\,)\,\,\,X_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{1}\,\,Y_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,X_{1}\,\,X_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,X_{1}\,\,X_{2}\,\,Z_{0}\,\,Z_{3}\,+\,\,(\,\textbf{0.0401193}\,+\,\textbf{0.00658239}\,\,\dot{\mathtt{1}}\,)\,\,X_{2}\,\,Z_{0}\,\,Z_{0}\,\,Z_{0}\,\,Z_{0}\,\,Z_{0}\,\,Z_{0}\,\,Z_{0}\,\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z_{0}\,Z
   (0.00622848 + 0.0945268 \pm) Z_1 Z_3 + (0.119927 + 0.151045 \pm) X_0 Z_1 Z_3 -
   (\textbf{0.0221698} + \textbf{0.125285} \; \underline{\text{i}}) \;\; \textbf{X}_{2} \; \textbf{Z}_{1} \; \textbf{Z}_{3} \; + \; (\textbf{0.224221} \; - \; \textbf{0.0896901} \; \underline{\text{i}}) \;\; \textbf{X}_{0} \; \textbf{X}_{2} \; \textbf{Z}_{1} \; \textbf{Z}_{3} \; - \; \textbf{X}_{1} \; \textbf{Z}_{2} \; \textbf{Z}_{1} \; \textbf{Z}_{3} \; - \; \textbf{Z}_{1} \; \textbf{Z}_{2} \; - \; \textbf{Z}_{1} \; \textbf{Z}_{3} \; - \; \textbf{Z}_{1} \; \textbf{Z}_{3} \; - \; \textbf{Z}_{1} \; \textbf{Z}_{3} \; - \; \textbf{Z
   (\,\textbf{0.256656}\,+\,\textbf{0.13314}\,\,\dot{\mathtt{1}}\,)\,\,\,Y_{0}\,\,Z_{1}\,\,Z_{3}\,-\,\,(\,\textbf{0.0574022}\,+\,\textbf{0.160521}\,\,\dot{\mathtt{1}}\,)\,\,\,X_{2}\,\,Y_{0}\,\,Z_{1}\,\,Z_{3}\,+\,\,X_{1}\,\,X_{2}\,\,X_{1}\,\,X_{2}\,\,X_{1}\,\,X_{2}\,\,X_{2}\,\,X_{2}\,\,X_{3}\,\,X_{2}\,\,X_{3}\,\,X_{3}\,\,X_{2}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}\,\,X_{3}
   (0.33747 + 0.0840976 \pm) Y_0 Y_2 Z_1 Z_3 + (0.0289648 - 0.0513782 \pm) Z_0 Z_1 Z_3 -
   (\textbf{0.0333275} - \textbf{0.232616} \pm) \ \ \textbf{X}_2 \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_3 - (\textbf{0.118554} - \textbf{0.0940485} \pm) \ \ \textbf{Y}_2 \ \textbf{Z}_0 \ \textbf{Z}_1 \ \textbf{Z}_3 + \textbf{0.0940485} \pm \textbf{0.0940485}
   (0.250222 + 0.0200241 \pm) Z_2 Z_3 - (0.0220778 - 0.0473595 \pm) X_0 Z_2 Z_3 -
   (0.0524376 - 0.181141 \pm) X_1 Z_2 Z_3 - (0.118562 + 0.0143808 \pm) X_0 X_1 Z_2 Z_3 - (0.118562 + 0.0143808 \pm) X_0 X_1 Z_2 Z_3 - (0.118562 + 0.0143808 \pm) X_0 X_1 Z_2 Z_3 - (0.118562 + 0.0143808 \pm) X_0 X_1 Z_2 Z_3 - (0.118562 + 0.0143808 \pm) X_0 X_1 Z_2 Z_3 - (0.118562 + 0.0143808 \pm) X_0 X_1 Z_2 Z_3 - (0.118562 + 0.0143808 \pm) X_0 X_1 Z_2 Z_3 - (0.118562 + 0.0143808 \pm) X_0 X_1 Z_2 Z_3 - (0.0143808 \pm) X_0 Z_2 Z_3 - (0.0143808 \pm)
   (0.0333759 - 0.107825 \pm) \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_1 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_1 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_1 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_1 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.224467 - 0.0162795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.2246795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.2246795 \pm) \ X_3 \ Y_0 \ Z_2 \ Z_3 + (0.2246795 \pm) \ X_3 \ Y_0 \ Z_3 \ Z_3 + (0.2246795 \pm) \ X_3 \ Z_3 \ Z_3 + (0.2246795 \pm) \ X_3 \ Z_3 \ Z_3 + (0.2246795 \pm) \ X_3 \ Z_3 \ Z_3 + (0.2246795 \pm) \ X_3 \ Z_3 \ Z_3 + (0.2246795 \pm) \ X_3 \ Z_3 \ Z_3 + (0.2246795 \pm) \ X_3 \ Z_3 \ Z_3 + (0.2246795 \pm) \ X_3 \ Z_3 \ Z_3 + (0.2246795 \pm) \ X_3 \ Z_3 \ Z_3 +
(\textbf{0.0272165} + \textbf{0.0894063}\,\,\dot{\textbf{1}}) \ \ \textbf{Y}_{\textbf{0}} \ \textbf{Y}_{\textbf{1}} \ \textbf{Z}_{\textbf{2}} \ \textbf{Z}_{\textbf{3}} - \ (\textbf{0.0823478} + \textbf{0.112031}\,\,\dot{\textbf{1}}) \ \ \textbf{Z}_{\textbf{0}} \ \textbf{Z}_{\textbf{2}} \ \textbf{Z}_{\textbf{3}} + \textbf{0.112031}\,\,\dot{\textbf{1}}) \ \ \textbf{Z}_{\textbf{0}} \ \textbf{Z}_{\textbf{2}} \ \textbf{Z}_{\textbf{3}} + \textbf{0.112031}\,\,\dot{\textbf{2}}) \ \ \textbf{Z}_{\textbf{0}} \ \textbf{Z}_{\textbf{2}} \ \textbf{Z}_{\textbf{3}} + \textbf{0.112031}\,\,\dot{\textbf{2}}) \ \ \textbf{Z}_{\textbf{0}} \ \textbf{Z}_{\textbf{2}} \ \textbf{Z}_{\textbf{3}} + \textbf{0.112031}\,\,\dot{\textbf{2}} +
   (\textbf{0.0607849} + \textbf{0.148174} \; \dot{\textbf{1}}) \;\; \textbf{X}_{1} \; \textbf{Z}_{0} \; \textbf{Z}_{2} \; \textbf{Z}_{3} \; + \; (\textbf{0.10218} \; + \; \textbf{0.022369} \; \dot{\textbf{1}}) \;\; \textbf{Y}_{1} \; \textbf{Z}_{0} \; \textbf{Z}_{2} \; \textbf{Z}_{3} \; - \; \textbf{Z}_{1} \; \textbf{Z}_{2} \; \textbf{Z}_{3} \; + \; \textbf{Z}_{2} \; \textbf{Z}_{3} \; + \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; + \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; + \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; + \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; \textbf{Z}_{3} \; + \; \textbf{Z}_{3} \; \textbf
   (0.00587749 - 0.139545 \pm) \ Y_0 \ Z_1 \ Z_2 \ Z_3 - (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_1 \ Z_2 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_1 \ Z_2 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_1 \ Z_2 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_1 \ Z_2 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_2 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_2 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_2 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_1 \ Z_2 \ Z_2 \ Z_2 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_2 \ Z_2 \ Z_2 \ Z_2 \ Z_3 + (0.0512722 + 0.32487 \pm) \ Z_0 \ Z_1 \ Z_2 \ Z_
```

TransformationFunction

CalcCircuitGenerator[Damp₂[x]]

CalcCircuitGenerator[Damp₂[x], TransformationFunction → Simplify]

$$\begin{split} &\frac{1}{4} \left(-2 \ \text{$\stackrel{1}{\text{$\perp$}}$ } \text{Log} \big[\sqrt{1-x} \ \big] - \text{$\stackrel{1}{\text{$\perp$}}$ } \text{Log} [1-x] \ \big) \ \text{Id}_1 + \frac{1}{4} \ \text{$\stackrel{1}{\text{$\perp$}}$ } \text{Log} [1-x] \ X_2 \ X_5 - \\ &\frac{1}{4} \ \text{Log} [1-x] \ X_5 \ Y_2 - \frac{1}{4} \ \text{Log} [1-x] \ X_2 \ Y_5 - \frac{1}{4} \ \text{$\stackrel{1}{\text{$\perp$}}$ } \text{Log} [1-x] \ Y_2 \ Y_5 + \\ &\frac{1}{4} \ \text{$\stackrel{1}{\text{$\perp$}}$ } \text{Log} [1-x] \ Z_2 + \frac{1}{4} \ \text{$\stackrel{1}{\text{$\perp$}}$ } \text{Log} [1-x] \ Z_5 + \frac{1}{4} \ \left(2 \ \text{$\stackrel{1}{\text{$\perp$}}$ } \text{Log} \big[\sqrt{1-x} \ \big] - \text{$\stackrel{1}{\text{$\perp$}}$ } \text{Log} [1-x] \ \right) \ Z_2 \ Z_5 \end{split}$$

 $-\frac{1}{2} i Log[1-x] Id_1 + \frac{1}{4} i Log[1-x] X_2 X_5 - \frac{1}{4} Log[1-x] X_5 Y_2 \frac{1}{4} Log[1-x] X_2 Y_5 - \frac{1}{4} i Log[1-x] Y_2 Y_5 + \frac{1}{4} i Log[1-x] Z_2 + \frac{1}{4} i Log[1-x] Z_5$

CalcCircuitGenerator[C1@Rx0[x]]

CalcCircuitGenerator[$C_1@Rx_0[x]$, TransformationFunction \rightarrow Identity]

$$-\,\frac{x\,\,X_{0}}{4}\,+\,\frac{1}{4}\,\,x\,\,X_{0}\,\,Z_{1}$$

$$\begin{split} &-\frac{1}{2} \, \, \mathrm{ii} \, \left(\frac{1}{2} \, \mathsf{Log} \Big[\mathsf{Cos} \Big[\frac{x}{2}\Big] - \mathrm{ii} \, \mathsf{Sin} \Big[\frac{x}{2}\Big] \Big] + \frac{1}{2} \, \mathsf{Log} \Big[\mathsf{Cos} \Big[\frac{x}{2}\Big] + \mathrm{ii} \, \mathsf{Sin} \Big[\frac{x}{2}\Big] \Big] \right) \, \mathsf{Id}_1 - \frac{1}{2} \, \, \mathrm{ii} \, \left(\frac{1}{2} \, \mathsf{Log} \Big[\mathsf{Cos} \Big[\frac{x}{2}\Big] - \mathrm{ii} \, \mathsf{Sin} \Big[\frac{x}{2}\Big] \Big] - \frac{1}{2} \, \mathsf{Log} \Big[\mathsf{Cos} \Big[\frac{x}{2}\Big] + \mathrm{ii} \, \mathsf{Sin} \Big[\frac{x}{2}\Big] \Big] \right) \, \mathsf{X}_0 + \\ &\frac{1}{2} \, \, \mathrm{ii} \, \left(\frac{1}{2} \, \mathsf{Log} \Big[\mathsf{Cos} \Big[\frac{x}{2}\Big] - \mathrm{ii} \, \mathsf{Sin} \Big[\frac{x}{2}\Big] \Big] + \frac{1}{2} \, \mathsf{Log} \Big[\mathsf{Cos} \Big[\frac{x}{2}\Big] + \mathrm{ii} \, \mathsf{Sin} \Big[\frac{x}{2}\Big] \Big] \right) \, \mathsf{Z}_1 + \\ &\frac{1}{2} \, \, \mathrm{ii} \, \left(\frac{1}{2} \, \mathsf{Log} \Big[\mathsf{Cos} \Big[\frac{x}{2}\Big] - \mathrm{ii} \, \mathsf{Sin} \Big[\frac{x}{2}\Big] \right] \right] - \frac{1}{2} \, \mathsf{Log} \Big[\mathsf{Cos} \Big[\frac{x}{2}\Big] + \mathrm{ii} \, \mathsf{Sin} \Big[\frac{x}{2}\Big] \Big] \right) \, \mathsf{X}_0 \, \mathsf{Z}_1 \end{split}$$

in = Kraus₀@
$$\left\{ \begin{pmatrix} 1 & 0 \\ 0 & \sqrt{1-x} \end{pmatrix}, \begin{pmatrix} 0 & \sqrt{x} \\ 0 & 0 \end{pmatrix} \right\}$$
;

CalcCircuitGenerator[in]

CalcCircuitGenerator[in, TransformationFunction \rightarrow (Simplify[#, $0 \le x \le 1] \&)$]

$$\frac{1}{4}\left(-i \ \text{Log}\left[\sqrt{1-x}\ \right] - i \ \text{Log}\left[\text{Conjugate}\left[\sqrt{1-x}\ \right]\right] - i \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right]\right) \ \text{Id}_1 - \frac{i \ \sqrt{x} \ \text{Conjugate}\left[\sqrt{x}\ \right] \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right]}{4\left(-1+\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right)} + \frac{\sqrt{x} \ \text{Conjugate}\left[\sqrt{x}\ \right] \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right] \ X_1 Y_0}{4\left(-1+\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right)} + \frac{\sqrt{x} \ \text{Conjugate}\left[\sqrt{x}\ \right] \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right] \ X_0 Y_1}{4\left(-1+\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right)} + \frac{i \ \sqrt{x} \ \text{Conjugate}\left[\sqrt{x}\ \right] \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right] \ Y_0 \ Y_1}{4\left(-1+\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right)} + \frac{1}{4}\left(i \ \text{Log}\left[\sqrt{1-x}\ \right] + i \ \text{Log}\left[\text{Conjugate}\left[\sqrt{1-x}\ \right]\right] + i \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right]\right) \ Z_0 + \frac{1}{4}\left(i \ \text{Log}\left[\sqrt{1-x}\ \right] + i \ \text{Log}\left[\text{Conjugate}\left[\sqrt{1-x}\ \right]\right] - i \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right]\right) \ Z_0 \ Z_1 = \frac{1}{4}\left(i \ \text{Log}\left[\sqrt{1-x}\ \right] + i \ \text{Log}\left[\text{Conjugate}\left[\sqrt{1-x}\ \right]\right] - i \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right]\right) \ Z_0 \ Z_1 = \frac{1}{4}\left(i \ \text{Log}\left[\sqrt{1-x}\ \right] + i \ \text{Log}\left[\text{Conjugate}\left[\sqrt{1-x}\ \right]\right] - i \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right]\right) \ Z_0 \ Z_1 = \frac{1}{4}\left(i \ \text{Log}\left[\sqrt{1-x}\ \right] + i \ \text{Log}\left[\text{Conjugate}\left[\sqrt{1-x}\ \right]\right] - i \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right]\right) \ Z_0 \ Z_1 = \frac{1}{4}\left(i \ \text{Log}\left[\sqrt{1-x}\ \right] + i \ \text{Log}\left[\text{Conjugate}\left[\sqrt{1-x}\ \right]\right] - i \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right]\right) \ Z_0 \ Z_1 = \frac{1}{4}\left(i \ \text{Log}\left[\sqrt{1-x}\ \right] + i \ \text{Log}\left[\text{Conjugate}\left[\sqrt{1-x}\ \right]\right] - i \ \text{Log}\left[\sqrt{1-x}\ \text{Conjugate}\left[\sqrt{1-x}\ \right]\right]\right)$$

$$\begin{split} & -\frac{1}{2} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, \text{Id}_1 + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, X_0 \, \, X_1 - \frac{1}{4} \, \, \text{Log} \, [\, 1-x \,] \, \, X_1 \, \, Y_0 \, - \\ & \frac{1}{4} \, \, \text{Log} \, [\, 1-x \,] \, \, X_0 \, \, Y_1 - \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Y_0 \, \, Y_1 + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_0 + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_1 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_1 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_2 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_3 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_3 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_3 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{i} \, \, \text{Log} \, [\, 1-x \,] \, \, Z_4 \, + \frac{1}{4} \, \, \text{log} \, [\, 1-x \,] \, \, Z_5 \, + \frac{1}{4} \, \, \text{log} \, [\, 1-x \,] \, \, Z_5 \, + \frac{1}{4} \, \, \text{log} \, [\, 1-x \,] \, \, Z_5 \, + \frac{1}{4} \, \, \text{log} \, [\, 1-x \,] \, \, Z_5 \, + \frac{1}{4} \, \, \text{log} \, [\, 1-x \,] \, \, Z_5 \, + \frac{1}{4} \, Z_5 \, +$$

Errors

CalcCircuitGenerator[Poop₀]

- ··· CalcCircuitMatrix: Circuit contained an unrecognised or unsupported gate: Poop
- ••• CalcCircuitGenerator: The above error prevented calculating the generator.

\$Failed

CalcCircuitGenerator[$U_0@\{\{0,0\},\{0,0\}\}\}$]

- ••• MatrixLog: The function Log is not analytic or defined at 0.
- ••• CalcCircuitGenerator: The above error prevented calculating the generator.

\$Failed

CalcCircuitGenerator[X_0 , TransformationFunction \rightarrow hi]

··· CalcCircuitGenerator: The given TransformationFunction did not return a matrix.

\$Failed

CalcCircuitGenerator[X_0 , TransformationFunction \rightarrow (# / 0 &)]

- Power: Infinite expression encountered.
- ••• CalcCircuitGenerator: The above error prevented calculating the generator.

\$Failed

MatrixQ

MatrixQ

CalcCircuitGenerator[X_0 , TransformationFunction \rightarrow False]

••• CalcCircuitGenerator: The given TransformationFunction did not return a matrix.

\$Failed

CalcCircuitGenerator[X₀, UnsupportedOption → False]

••• OptionValue: Unknown option UnsupportedOption for CalcCircuitGenerator.

$$\frac{\pi \, \mathbf{Id_0}}{2} - \frac{\pi \, \mathbf{X_0}}{2}$$

CalcCircuitGenerator[bleh]

··· CalcCircuitGenerator: Invalid arguments. See ?CalcCircuitGenerator

\$Failed

CalcCircuitGenerator[bleh, meh]

··· CalcCircuitGenerator: Invalid arguments. See ?CalcCircuitGenerator

\$Failed