Coordinates

$$
\begin{aligned}
Co: &\ (\frac{1}{3},\frac{2}{3},\frac{1}{6}),(1,1,\frac{1}{2}),(\frac{2}{3},\frac{1}{3},\frac{5}{6}) \\
O: &\ (0,0,0.239587),(\frac{2}{3},\frac{1}{3},0.09374633),(\frac{2}{3},\frac{1}{3},0.57292033),(\frac{1}{3},\frac{2}{3},0.42707967),(\frac{1}{3},\frac{2}{3},0.90625367),(0,0,0.760413) \\
Li: &\ (0,0,0),(\frac{2}{3},\frac{1}{3},\frac{1}{3}),(\frac{1}{3},\frac{2}{3},\frac{2}{3}) \\
Reflections: &\ (1,0,1),(-1,0,1),(1,0,-1),(0,1,1),(0,-1,1),(0,1,-1), \\
&\ (0,-1,-1),(-1,1,1),(0,-1,1),(-1,1,-1),(1,-1,-1),(-1,-1,-1)
\end{aligned}
$$

$$
\begin{aligned}
F_{hkl} = &\ f_{Co}(e^{2\pi i(\frac{h}{3}+\frac{2\cdot k}{3}+\frac{l}{6})}+e^{2\pi i(h+k+\frac{l}{2})}+e^{2\pi i(\frac{2\cdot h}{3}+\frac{k}{3}+\frac{5\cdot l}{6})}) \\
&+f_O(e^{2\pi i(0+0+\frac{0.239587\cdot l}{1})}+e^{2\pi i(\frac{2\cdot h}{3}+\frac{k}{3}+\frac{0.09374633\cdot l}{1})}+e^{2\pi i(\frac{2\cdot h}{3}+\frac{k}{3}+\frac{0.57292033\cdot l}{1})}+e^{2\pi i(\frac{h}{3}+\frac{2\cdot k}{3}+\frac{0.42707967\cdot l}{1})} \\
&+e^{2\pi i(\frac{h}{3}+\frac{2\cdot k}{3}+\frac{0.90625367\cdot l}{1})}+e^{2\pi i(0+0+\frac{0.760413\cdot l}{1})}) \\
&+f_{Li}(e^{2\pi i(0+0+0)}+e^{2\pi i(\frac{2\cdot h}{3}+\frac{k}{3}+\frac{l}{3})}+e^{2\pi i(\frac{h}{3}+\frac{2\cdot k}{3}+\frac{2\cdot l}{3})}) \\
= &\ f_{Co}(e^{2\pi i(\frac{h}{3}+\frac{2\cdot k}{3}+\frac{l}{6})}+e^{2\pi i(h+k+\frac{l}{2})}+e^{2\pi i(\frac{2\cdot h}{3}+\frac{k}{3}+\frac{5\cdot l}{6})}) \\
&+f_O(e^{2\pi i(\frac{0.239587\cdot l}{1})}+e^{2\pi i(\frac{2\cdot h}{3}+\frac{k}{3}+\frac{0.09374633\cdot l}{1})}+e^{2\pi i(\frac{2\cdot h}{3}+\frac{k}{3}+\frac{0.57292033\cdot l}{1})}+e^{2\pi i(\frac{h}{3}+\frac{2\cdot k}{3}+\frac{0.42707967\cdot l}{1})} \\
&+e^{2\pi i(\frac{h}{3}+\frac{2\cdot k}{3}+\frac{0.90625367\cdot l}{1})}+e^{2\pi i(\frac{0.760413\cdot l}{1})}) \\
&+f_{Li}(e^{2\pi i(0)}+e^{2\pi i(\frac{2\cdot h}{3}+\frac{k}{3}+\frac{l}{3})}+e^{2\pi i(\frac{h}{3}+\frac{2\cdot k}{3}+\frac{2\cdot l}{3})})
\end{aligned}
$$

$$
\begin{aligned}
F_{101} = \; & f_{Co}(e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{1}{6})} + e^{2\pi i(1+0+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(0+0+\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{1}{3})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{1}{6})} + e^{2\pi i(1+0+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{1}{3})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{1}{2})} + e^{2\pi i(\frac{3}{2})} + e^{2\pi i(\frac{3}{2})}) \\
& + \quad f_{O}(e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{0.760413}{1})} + e^{2\pi i(\frac{1.239587}{1})} + e^{2\pi i(\frac{0.760413}{1})} \\
& + e^{2\pi i(\frac{1.239587}{1})} + e^{2\pi i(\frac{0.760413}{1})}) \\
& + \quad f_{Li}(e^{2\pi i(0)} + e^{2\pi i(1)} + e^{2\pi i(1)}) \\
= \; & f_{Co}(-1 + -1 + -1) \\
& + \quad f_{O}([0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i] \\
& \quad + [0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i] \\
& \quad + [0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i]) \\
& + \quad f_{Li}(1 + 1 + 1) \\
= \; & \quad -3f_{Co} + 0.39228084116117606f_{O} + 3f_{Li}
\end{aligned}
$$

$$
\begin{aligned}
F_{-101} = \; & f_{Co}(e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 0}{3}+\frac{1}{6})} + e^{2\pi i(-1+0+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{0}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(0+0+\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{0}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{0}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 0}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 0}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{0}{3}+\frac{1}{3})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 0}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 0}{3}+\frac{1}{6})} + e^{2\pi i(-1+0+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{0}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{0}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{0}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 0}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 0}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{0}{3}+\frac{1}{3})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 0}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-1}{6})} + e^{2\pi i(\frac{-1}{2})} + e^{2\pi i(\frac{1}{6})}) \\
& + \quad f_{O}(e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{-40655}{70961})} + e^{2\pi i(\frac{-7197}{76771})} + e^{2\pi i(\frac{0.09374634}{1})} \\
& + e^{2\pi i(\frac{0.57292034}{1})} + e^{2\pi i(\frac{0.760413}{1})}) \\
& + \quad f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{-1}{3})} + e^{2\pi i(\frac{1}{3})}) \\
= \; & f_{Co}([0.5 + (-0.86603)i] + -1 + [0.5 + (0.86603)i]) \\
& + \quad f_{O}([0.06538 + (0.99786)i] + [-0.89686 + (0.44231)i] \\
& \quad + [0.83148 + (-0.55555)i] + [0.83148 + (0.55555)i] \\
& \quad + [-0.89686 + (-0.44231)i] + [0.06538 + (-0.99786)i]) \\
& + \quad f_{Li}(1 + [-0.5 + (-0.86603)i] + [-0.5 + (0.86603)i]) \\
= \; & -4.7434587369110 66e-09 f_{O}
\end{aligned}
$$

$$
\begin{aligned}
F_{10-1} = \; & f_{Co}(e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{-1}{6})} + e^{2\pi i(1+0+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(0+0+\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{0.42707967\cdot -1}{1})} \\
& + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{-1}{6})} + e^{2\pi i(1+0+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{0.42707967\cdot -1}{1})} \\
& + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{0}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot 0}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{1}{6})} + e^{2\pi i(\frac{1}{2})} + e^{2\pi i(\frac{-1}{6})}) \\
& + \; f_O(e^{2\pi i(\frac{-2042}{8523})} + e^{2\pi i(\frac{0.57292034}{1})} + e^{2\pi i(\frac{0.09374634}{1})} + e^{2\pi i(\frac{-7197}{76771})} \\
& + e^{2\pi i(\frac{-40655}{70961})} + e^{2\pi i(\frac{-6481}{8523})}) \\
& + \; f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{1}{3})} + e^{2\pi i(\frac{-1}{3})}) \\
= \; & f_{Co}([0.5 + (0.86603)i] + -1 + [0.5 + (-0.86603)i]) \\
& + \; f_O([0.06538 + (-0.99786)i] + [-0.89686 + (-0.44231)i] \\
& + [0.83148 + (0.55555)i] + [0.83148 + (-0.55555)i] \\
& + [-0.89686 + (0.44231)i] + [0.06538 + (0.99786)i]) \\
& + \; f_{Li}(1 + [-0.5 + (0.86603)i] + [-0.5 + (-0.86603)i]) \\
= \; & -4.7434587369110 66e-09 f_O
\end{aligned}
$$

$$
\begin{aligned}
F_{011} = \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{1}{6})} + e^{2\pi i(0+1+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(0+0+\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{1}{6})} + e^{2\pi i(0+1+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{5}{6})} + e^{2\pi i(\frac{3}{2})} + e^{2\pi i(\frac{7}{6})}) \\
& + \quad f_{O}(e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{0.42707966}{1})} + e^{2\pi i(\frac{0.90625366}{1})} + e^{2\pi i(\frac{1.09374634}{1})} \\
& + e^{2\pi i(\frac{1.57292034}{1})} + e^{2\pi i(\frac{0.760413}{1})}) \\
& + \quad f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2}{3})} + e^{2\pi i(\frac{4}{3})}) \\
= \; & f_{Co}([0.5 + (-0.86603)i] + -1 + [0.5 + (0.86603)i]) \\
& + \quad f_{O}([0.06538 + (0.99786)i] + [-0.89686 + (0.44231)i] \\
& \quad + [0.83148 + (-0.55555)i] + [0.83148 + (0.55555)i] \\
& \quad + [-0.89686 + (-0.44231)i] + [0.06538 + (-0.99786)i]) \\
& + \quad f_{Li}(1 + [-0.5 + (-0.86603)i] + [-0.5 + (0.86603)i]) \\
= \; & -4.7434586258887634e-09 f_{O}
\end{aligned}
$$

$$
\begin{aligned}
F_{0-11} = \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{1}{6})} + e^{2\pi i(0+-1+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(0+0+\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{1}{6})} + e^{2\pi i(0+-1+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-1}{2})} + e^{2\pi i(\frac{-1}{2})} + e^{2\pi i(\frac{1}{2})}) \\
& + \quad f_{O}(e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{-15640}{65279})} + e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{-17032}{71089})} \\
& + e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{0.760413}{1})}) \\
& + \quad f_{Li}(e^{2\pi i(0)} + e^{2\pi i(0)} + e^{2\pi i(0)}) \\
= \; & f_{Co}(-1 + -1 + -1) \\
& + \quad f_{O}([0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i] \\
& \quad + [0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i] \\
& \quad + [0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i]) \\
& + \quad f_{Li}(1 + 1 + 1) \\
= \; & -3f_{Co} + 0.39228084116117673 f_{O} + 3f_{Li}
\end{aligned}
$$

$$
\begin{aligned}
F_{01-1} = \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{-1}{6})} + e^{2\pi i(0+1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(0+0+\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{0.42707967\cdot -1}{1})} \\
& + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{-1}{6})} + e^{2\pi i(0+1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{0.42707967\cdot -1}{1})} \\
& + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot 1}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{1}{2})} + e^{2\pi i(\frac{1}{2})} + e^{2\pi i(\frac{-1}{2})}) \\
& + \; f_O(e^{2\pi i(\frac{-2042}{8523})} + e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{-17032}{71089})} + e^{2\pi i(\frac{0.239587}{1})} \\
& + e^{2\pi i(\frac{-15640}{65279})} + e^{2\pi i(\frac{-6481}{8523})}) \\
& + \; f_{Li}(e^{2\pi i(0)} + e^{2\pi i(0)} + e^{2\pi i(0)}) \\
= \; & f_{Co}(-1 + -1 + -1) \\
& + \; f_O([0.06538 + (-0.99786)i] + [0.06538 + (0.99786)i] \\
& + [0.06538 + (-0.99786)i] + [0.06538 + (0.99786)i] \\
& + [0.06538 + (-0.99786)i] + [0.06538 + (0.99786)i]) \\
& + \; f_{Li}(1 + 1 + 1) \\
= \; & -3f_{Co} + 0.39228084116117673f_O + 3f_{Li}
\end{aligned}
$$

$$
\begin{aligned}
F_{0-1-1} = \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{-1}{6})} + e^{2\pi i(0+-1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(0+0+\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.42707967\cdot -1}{1})} \\
& + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{-1}{6})} + e^{2\pi i(0+-1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.42707967\cdot -1}{1})} \\
& + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-5}{6})} + e^{2\pi i(\frac{-3}{2})} + e^{2\pi i(\frac{-7}{6})}) \\
& + \quad f_O(e^{2\pi i(\frac{-2042}{8523})} + e^{2\pi i(\frac{-30306}{70961})} + e^{2\pi i(\frac{-69574}{76771})} + e^{2\pi i(\frac{-83968}{76771})} \\
& + e^{2\pi i(\frac{-111616}{70961})} + e^{2\pi i(\frac{-6481}{8523})}) \\
& + \quad f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{-2}{3})} + e^{2\pi i(\frac{-4}{3})}) \\
= \; & f_{Co}([0.5 + (0.86603)i] + -1 + [0.5 + (-0.86603)i]) \\
& + \quad f_O([0.06538 + (-0.99786)i] + [-0.89686 + (-0.44231)i] \\
& + [0.83148 + (0.55555)i] + [0.83148 + (-0.55555)i] \\
& + [-0.89686 + (0.44231)i] + [0.06538 + (0.99786)i]) \\
& + \quad f_{Li}(1 + [-0.5 + (0.86603)i] + [-0.5 + (-0.86603)i]) \\
= \; & \quad -4.7434586258887634e-09 f_O
\end{aligned}
$$

$$
\begin{aligned}
F_{-111} = \; & f_{Co}(e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{1}{6})} + e^{2\pi i(-1+1+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{5\cdot 1}{6})}) \\
& + f_O(e^{2\pi i(0+0+\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{0.42707967\cdot 1}{1})} \\
& + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{1}{3})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{1}{6})} + e^{2\pi i(-1+1+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{5\cdot 1}{6})}) \\
& + f_O(e^{2\pi i(\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{0.42707967\cdot 1}{1})} \\
& + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{1}{3})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{1}{2})} + e^{2\pi i(\frac{1}{2})} + e^{2\pi i(\frac{1}{2})}) \\
& + \quad f_O(e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{-15640}{65279})} + e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{0.760413}{1})} \\
& + e^{2\pi i(\frac{1.239587}{1})} + e^{2\pi i(\frac{0.760413}{1})}) \\
& + \quad f_{Li}(e^{2\pi i(0)} + e^{2\pi i(0)} + e^{2\pi i(1)}) \\
= \; & f_{Co}(-1 + -1 + -1) \\
& + \quad f_O([0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i] \\
& + [0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i] \\
& + [0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i]) \\
& + \quad f_{Li}(1 + 1 + 1) \\
= \; & -3f_{Co} + 0.3922808411611765 f_O + 3f_{Li}
\end{aligned}
$$

$$
\begin{aligned}
F_{0-11} = \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{1}{6})} + e^{2\pi i(0+-1+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(0+0+\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{1}{6})} + e^{2\pi i(0+-1+\frac{1}{2})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{5\cdot 1}{6})}) \\
& + f_{O}(e^{2\pi i(\frac{0.239587\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.09374633\cdot 1}{1})} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{0.57292033\cdot 1}{1})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.42707967\cdot 1}{1})} \\
& \quad + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{0.90625367\cdot 1}{1})} + e^{2\pi i(\frac{0.760413\cdot 1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot 0}{3}+\frac{-1}{3}+\frac{1}{3})} + e^{2\pi i(\frac{0}{3}+\frac{2\cdot -1}{3}+\frac{2\cdot 1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-1}{2})} + e^{2\pi i(\frac{-1}{2})} + e^{2\pi i(\frac{1}{2})}) \\
& + \quad f_{O}(e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{-15640}{65279})} + e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{-17032}{71089})} \\
& + e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{0.760413}{1})}) \\
& + \quad f_{Li}(e^{2\pi i(0)} + e^{2\pi i(0)} + e^{2\pi i(0)}) \\
= \; & f_{Co}(-1 + -1 + -1) \\
& + \quad f_{O}([0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i] \\
& \quad + [0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i] \\
& \quad + [0.06538 + (0.99786)i] + [0.06538 + (-0.99786)i]) \\
& + \quad f_{Li}(1 + 1 + 1) \\
= \; & -3f_{Co} + 0.39228084116117673 f_{O} + 3f_{Li}
\end{aligned}
$$

$$
\begin{aligned}
F_{-11-1} = \; & f_{Co}(e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{-1}{6})} + e^{2\pi i(-1+1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(0+0+\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{0.42707967\cdot -1}{1})} \\
& \quad + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{-1}{6})} + e^{2\pi i(-1+1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{0.42707967\cdot -1}{1})} \\
& \quad + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot -1}{3}+\frac{1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot 1}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{1}{6})} + e^{2\pi i(\frac{-1}{2})} + e^{2\pi i(\frac{-7}{6})}) \\
& + \quad f_O(e^{2\pi i(\frac{-2042}{8523})} + e^{2\pi i(\frac{-30306}{70961})} + e^{2\pi i(\frac{-69574}{76771})} + e^{2\pi i(\frac{-7197}{76771})} \\
& + e^{2\pi i(\frac{-40655}{70961})} + e^{2\pi i(\frac{-6481}{8523})}) \\
& + \quad f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{-2}{3})} + e^{2\pi i(\frac{-1}{3})}) \\
= \; & f_{Co}([0.5 + (0.86603)i] + -1 + [0.5 + (-0.86603)i]) \\
& + \quad f_O([0.06538 + (-0.99786)i] + [-0.89686 + (-0.44231)i] \\
& \quad + [0.83148 + (0.55555)i] + [0.83148 + (-0.55555)i] \\
& \quad + [-0.89686 + (0.44231)i] + [0.06538 + (0.99786)i]) \\
& + \quad f_{Li}(1 + [-0.5 + (0.86603)i] + [-0.5 + (-0.86603)i]) \\
= \; & \quad -4.7434586258887634e-09 f_O
\end{aligned}
$$

$$
\begin{aligned}
F_{1-1-1} = \; & f_{Co}(e^{2\pi i(\frac{1}{3}+\frac{2\cdot -1}{3}+\frac{-1}{6})} + e^{2\pi i(1+-1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{-1}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(0+0+\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{-1}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{-1}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot -1}{3}+\frac{0.42707967\cdot -1}{1})} \\
& + e^{2\pi i(\frac{1}{3}+\frac{2\cdot -1}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{-1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot -1}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{1}{3}+\frac{2\cdot -1}{3}+\frac{-1}{6})} + e^{2\pi i(1+-1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{-1}{3}+\frac{5\cdot -1}{6})}) \\
& + f_O(e^{2\pi i(\frac{0.239587\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{-1}{3}+\frac{0.09374633\cdot -1}{1})} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{-1}{3}+\frac{0.57292033\cdot -1}{1})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot -1}{3}+\frac{0.42707967\cdot -1}{1})} \\
& + e^{2\pi i(\frac{1}{3}+\frac{2\cdot -1}{3}+\frac{0.90625367\cdot -1}{1})} + e^{2\pi i(\frac{0.760413\cdot -1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot 1}{3}+\frac{-1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{1}{3}+\frac{2\cdot -1}{3}+\frac{2\cdot -1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-1}{2})} + e^{2\pi i(\frac{-1}{2})} + e^{2\pi i(\frac{-1}{2})}) \\
& + \; f_O(e^{2\pi i(\frac{-2042}{8523})} + e^{2\pi i(\frac{0.239587}{1})} + e^{2\pi i(\frac{-17032}{71089})} + e^{2\pi i(\frac{-54057}{71089})} \\
& + e^{2\pi i(\frac{-80919}{65279})} + e^{2\pi i(\frac{-6481}{8523})}) \\
& + \; f_{Li}(e^{2\pi i(0)} + e^{2\pi i(0)} + e^{2\pi i(-1)}) \\
= \; & f_{Co}(-1+-1+-1) \\
& + \; f_O([0.06538+(-0.99786)i] + [0.06538+(0.99786)i] \\
& + [0.06538+(-0.99786)i] + [0.06538+(0.99786)i] \\
& + [0.06538+(-0.99786)i] + [0.06538+(0.99786)i]) \\
& + \; f_{Li}(1+1+1) \\
= \; & -3f_{Co} + 0.3922808411611765f_O + 3f_{Li}
\end{aligned}
$$

$$
\begin{aligned}
F_{-1-1-1} = \; & f_{Co}(e^{2\pi i(\frac{-1}{3}+\frac{2\cdot-1}{3}+\frac{-1}{6})} + e^{2\pi i(-1+-1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot-1}{3}+\frac{-1}{3}+\frac{5\cdot-1}{6})}) \\
& + f_O(e^{2\pi i(0+0+\frac{0.239587\cdot-1}{1})} + e^{2\pi i(\frac{2\cdot-1}{3}+\frac{-1}{3}+\frac{0.09374633\cdot-1}{1})} + e^{2\pi i(\frac{2\cdot-1}{3}+\frac{-1}{3}+\frac{0.57292033\cdot-1}{1})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot-1}{3}+\frac{0.42707967\cdot-1}{1})} \\
& + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot-1}{3}+\frac{0.90625367\cdot-1}{1})} + e^{2\pi i(0+0+\frac{0.760413\cdot-1}{1})}) \\
& + f_{Li}(e^{2\pi i(0+0+0)} + e^{2\pi i(\frac{2\cdot-1}{3}+\frac{-1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot-1}{3}+\frac{2\cdot-1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-1}{3}+\frac{2\cdot-1}{3}+\frac{-1}{6})} + e^{2\pi i(-1+-1+\frac{-1}{2})} + e^{2\pi i(\frac{2\cdot-1}{3}+\frac{-1}{3}+\frac{5\cdot-1}{6})}) \\
& + f_O(e^{2\pi i(\frac{0.239587\cdot-1}{1})} + e^{2\pi i(\frac{2\cdot-1}{3}+\frac{-1}{3}+\frac{0.09374633\cdot-1}{1})} + e^{2\pi i(\frac{2\cdot-1}{3}+\frac{-1}{3}+\frac{0.57292033\cdot-1}{1})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot-1}{3}+\frac{0.42707967\cdot-1}{1})} \\
& + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot-1}{3}+\frac{0.90625367\cdot-1}{1})} + e^{2\pi i(\frac{0.760413\cdot-1}{1})}) \\
& + f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{2\cdot-1}{3}+\frac{-1}{3}+\frac{-1}{3})} + e^{2\pi i(\frac{-1}{3}+\frac{2\cdot-1}{3}+\frac{2\cdot-1}{3})}) \\
= \; & f_{Co}(e^{2\pi i(\frac{-7}{6})} + e^{2\pi i(\frac{-5}{2})} + e^{2\pi i(\frac{-11}{6})}) \\
& + \quad f_O(e^{2\pi i(\frac{-2042}{8523})} + e^{2\pi i(\frac{-37253}{34060})} + e^{2\pi i(\frac{-58143}{36965})} + e^{2\pi i(\frac{-52752}{36965})} \\
& + e^{2\pi i(\frac{-64927}{34060})} + e^{2\pi i(\frac{-6481}{8523})}) \\
& + \quad f_{Li}(e^{2\pi i(0)} + e^{2\pi i(\frac{-4}{3})} + e^{2\pi i(\frac{-5}{3})}) \\
= \; & f_{Co}([0.5 + (-0.86603)i] + -1 + [0.5 + (0.86603)i]) \\
& + \quad f_O([0.06538 + (-0.99786)i] + [0.83148 + (-0.55555)i] \\
& + [-0.89686 + (0.44231)i] + [-0.89686 + (-0.44231)i] \\
& + [0.83148 + (0.55555)i] + [0.06538 + (0.99786)i]) \\
& + \quad f_{Li}(1 + [-0.5 + (-0.86603)i] + [-0.5 + (0.86603)i]) \\
= \; & 4.743456849531924e-09 f_O
\end{aligned}
$$