```
\mathsf{LF_{1,0}}\left[\mathsf{m_1}\right] \to \mathsf{m_1}^2 \left(1 + \mathsf{Log}\left[\frac{\overline{\mu}^2}{\mathsf{m_1}^2}\right]\right)
\mathsf{LF}_{1,1}[\mathsf{m}_1] \to 1 + \mathsf{Log}\left[\frac{\overline{\mu}^2}{\mathsf{m}_1^2}\right]
\mathsf{LF_{1,2}}[\mathsf{m_1}] \to \frac{1}{\mathsf{m_1}^2} \left(1 + \mathsf{Log}\left[\frac{\overline{\mu}^2}{\mathsf{m_1}^2}\right]\right)
\mathsf{LF}_{2,0}[\mathsf{m}_1] \to \mathsf{Log}\Big[\frac{\overline{\mu}^2}{\mathsf{m}_1^2}\Big]
LF_{2,1}[m_1] \rightarrow -\frac{1}{m_1^2}
\mathsf{LF}_{3,-1}[\mathsf{m}_1] \to -\frac{1}{2} + \mathsf{Log}\Big[\frac{\overline{\mu}^2}{\mathsf{m}_1^2}\Big]
LF_{3,0}[m_1] \rightarrow -\frac{1}{2} \frac{1}{m_1^2}
LF_{4,-1}[m_1] \rightarrow -\frac{1}{3} \frac{1}{m_1^2}
LF_{5,-2}[m_1] \rightarrow -\frac{1}{4} \frac{1}{m_1^2}
\text{LF}_{1,1,-1}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right] \,\,\rightarrow\,\,\, \left(\,\text{m}_{1}^{\,\,4}\,\,\left(\,1\,+\,\,\text{Log}\left[\,\frac{\overline{\mu}^{2}}{\,\text{m}_{1}^{\,\,2}}\,\right]\,\right)\,-\,\,\text{m}_{2}^{\,\,4}\,\,\left(\,1\,+\,\,\text{Log}\left[\,\frac{\overline{\mu}^{2}}{\,\text{m}_{2}^{\,\,2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\,\,\text{m}_{1}^{\,\,2}\,-\,\text{m}_{2}^{\,\,2}}
\text{LF}_{\text{1,1,0}}\left[\,\text{m}_{\text{1}}\,,\,\,\text{m}_{\text{2}}\,\right] \,\,\rightarrow\,\,\, \left(\,\text{m}_{\text{1}}^{\,\,2}\,\,\left(\,\text{1} + \,\text{Log}\left[\,\frac{\overline{\mu}^{2}}{\,\text{m}_{\text{1}}^{\,2}}\,\,\right]\,\right) \,-\,\,\text{m}_{\text{2}}^{\,\,2}\,\,\left(\,\text{1} + \,\text{Log}\left[\,\frac{\overline{\mu}^{2}}{\,\text{m}_{\text{2}}^{\,2}}\,\,\right]\,\right)\,\right) \,\,\frac{1}{\,\,\text{m}_{\text{1}}^{\,\,2} - \text{m}_{\text{2}}^{\,2}}
\text{LF}_{2,1,-1}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right] \,\,\rightarrow\,\,\, \left(\,\text{m}_{1}^{\,\,4}\,\,\text{Log}\left[\,\frac{\overline{\mu}^{2}}{\,\text{m}_{1}^{\,\,2}}\,\,\right] \,\,-\,\,\text{m}_{1}^{\,\,2}\,\,\text{m}_{2}^{\,\,2}\,\,\left(\,1\,+\,2\,\,\text{Log}\left[\,\frac{\overline{\mu}^{2}}{\,\text{m}_{1}^{\,\,2}}\,\,\right]\,\right) \,\,+\,\,\text{m}_{2}^{\,\,4}\,\,\left(\,1\,+\,\,\text{Log}\left[\,\frac{\overline{\mu}^{2}}{\,\text{m}_{2}^{\,\,2}}\,\,\right]\,\right)\,\right) \,\,\frac{1}{\,\,\left(\,\text{m}_{1}^{\,\,2}\,-\,\text{m}_{2}^{\,\,2}\,\,\right)^{\,\,2}}
\text{LF}_{2,1,0}\left[\,\text{M}_{1}\,,\,\,\text{M}_{2}\,\right] \,\rightarrow\,\, \left(\,-\,\text{M}_{1}^{\,2}\,+\,\text{M}_{2}^{\,2}\,\left(\,1\,+\,\text{Log}\left[\,\frac{\text{M}_{1}^{\,2}}{\text{M}_{2}^{\,2}}\,\right]\,\right)\,\right) \,\,\frac{1}{\left(\,\text{M}_{1}^{\,2}-\text{M}_{2}^{\,2}\,\right)^{\,2}}
LF_{2,2,-2}[m_1, m_2] \rightarrow
              \left(m_{1}^{6} \, Log\!\left[\frac{\mathbb{Z}^{2}}{m_{1}^{2}}\right] - m_{1}^{4} \, m_{2}^{2} \, \left(2 + 3 \, Log\!\left[\frac{\mathbb{Z}^{2}}{m_{1}^{2}}\right]\right) - m_{2}^{6} \, Log\!\left[\frac{\mathbb{Z}^{2}}{m_{2}^{2}}\right] + m_{1}^{2} \, m_{2}^{4} \, \left(2 + 3 \, Log\!\left[\frac{\mathbb{Z}^{2}}{m_{2}^{2}}\right]\right)\right) \, \frac{1}{\left(m_{1}^{2} - m_{2}^{2}\right)^{3}} \, \left(m_{1}^{2} - m_{2}^{2}\right)^{3} \, \left(m_{1}^{2} - 
\mathsf{LF}_{2,2,-1} \left[\, \mathsf{m}_{1} \,,\,\, \mathsf{m}_{2} \,\right] \,\to\, \, \left(\, -\, \mathsf{m_{1}}^{\,4} \,+\, \mathsf{m_{2}}^{\,4} \,+\, 2\,\, \mathsf{m_{1}}^{\,2}\,\, \mathsf{m_{2}}^{\,2} \,\, \mathsf{Log} \left[\, \frac{\mathsf{m_{1}}^{\,2}}{\mathsf{m_{2}}^{\,2}} \,\right] \,\right) \,\, \frac{1}{\left(\, \mathsf{m_{1}}^{\,2} - \mathsf{m_{2}}^{\,2} \,\right)^{\,3}}
\text{LF}_{2,2,0}\left[\,\text{M}_{1}\,,\,\,\text{M}_{2}\,\right]\,\rightarrow\,\,\left(\,\text{M}_{1}^{\,2}\,\left(\,-\,2\,+\,\text{Log}\left[\,\frac{\text{m}_{1}^{\,2}}{\text{m}_{2}^{\,2}}\,\right]\,\right)\,+\,\,\text{M}_{2}^{\,2}\,\left(\,2\,+\,\text{Log}\left[\,\frac{\text{m}_{1}^{\,2}}{\text{m}_{2}^{\,2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,\text{m}_{1}^{\,2}\,-\,\text{m}_{2}^{\,2}\,\right)^{\,3}}
\mathsf{LF}_{3,1,-2}[\mathsf{m}_1, \mathsf{m}_2] \to \frac{1}{2} \left( 2 \mathsf{m}_1^4 \mathsf{m}_2^2 \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} \left( 1 - 3 \mathsf{Log} \left[ \frac{\overline{\mu}^2}{\mathsf{m}_1^2} \right] \right) + \frac{1}{2} 
                                                                                                         m_{1}^{6} \left(-1 + 2 \, \text{Log}\!\left[\frac{\overline{\mu}^{2}}{m_{1}^{2}}\right]\right) + m_{1}^{2} \, m_{2}^{4} \, \left(1 + 6 \, \text{Log}\!\left[\frac{\overline{\mu}^{2}}{m_{1}^{2}}\right]\right) - 2 \, m_{2}^{6} \, \left(1 + \text{Log}\!\left[\frac{\overline{\mu}^{2}}{m_{2}^{2}}\right]\right)\right) \, \frac{1}{\left(m_{1}^{2} - m_{2}^{2}\right)^{3}} \, m_{1}^{2} \, m_{2}^{2} \, m
\text{LF}_{3,1,-1}\left[\,m_1\,,\,m_2\,\right]\,\rightarrow\,-\,\frac{1}{2}\,\,\left(\,m_1{}^4\,-\,4\,\,m_1{}^2\,\,m_2{}^2\,+\,m_2{}^4\,\,\left(\,3\,+\,2\,\,\text{Log}\left[\,\frac{m_1{}^2}{m_2{}^2}\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,m_1{}^2-m_2{}^2\,\right)^3}
\text{LF}_{3,1,0}\left[\,\text{M}_{1}\,,\,\,\text{M}_{2}\,\right]\,\rightarrow\,\frac{1}{2}\,\,\frac{1}{\,\text{m}_{1}{}^{2}}\,\,\left(\,\text{M}_{1}{}^{4}\,-\,\text{M}_{2}{}^{4}\,-\,2\,\,\text{M}_{1}{}^{2}\,\,\text{M}_{2}{}^{2}\,\,\text{Log}\left[\,\frac{\text{M}_{1}{}^{2}}{\,\text{m}_{2}{}^{2}}\,\right]\,\right)\,\,\frac{1}{\,\left(\,\text{M}_{1}{}^{2}\,-\,\text{M}_{2}{}^{2}\,\right)^{\,3}}
\text{LF}_{3,2,-2}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right]\,\rightarrow\,-\,\frac{1}{2}\,\,\left(\,\text{m}_{1}{}^{6}\,-\,6\,\,\text{m}_{1}{}^{4}\,\,\text{m}_{2}{}^{2}\,+\,2\,\,\text{m}_{2}{}^{6}\,+\,3\,\,\text{m}_{1}{}^{2}\,\,\text{m}_{2}{}^{4}\,\,\left(\,1\,+\,2\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{4}}
\text{LF}_{3,2,-1}\left[\,m_{1}\,,\,m_{2}\,\right]\,\rightarrow\,\frac{1}{2}\,\,\left(\,m_{1}{}^{4}\,-\,4\,\,m_{1}{}^{2}\,\,m_{2}{}^{2}\,\,\left(\,-\,1\,+\,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right]\,\right)\,-\,m_{2}{}^{4}\,\,\left(\,5\,+\,2\,\,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,m_{1}{}^{2}\,-\,m_{2}{}^{2}\,\right)^{4}}
\text{LF}_{3,2,0}\left[\,\text{M}_{1}\,,\,\,\text{M}_{2}\,\right]\,\rightarrow\,-\,\frac{1}{2}\,\,\frac{1}{\,\,\text{m}_{1}{}^{2}}\,\,\left(\,\text{m}_{2}{}^{4}\,+\,4\,\,\text{M}_{1}{}^{2}\,\,\text{m}_{2}{}^{2}\,\,\left(\,1\,+\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\,\text{m}_{2}{}^{2}}\,\,\right]\,\right)\,+\,\,\text{m}_{1}{}^{4}\,\,\left(\,-\,5\,+\,2\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\,\text{m}_{2}{}^{2}}\,\,\right]\,\right)\,\right)\,\,\frac{1}{\,\,\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,4}}
\text{LF}_{3,3,-3}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right]\,\rightarrow\,\frac{1}{2}\,\,\left(\,-\,\text{m}_{1}{}^{8}\,+\,8\,\,\text{m}_{1}{}^{6}\,\,\text{m}_{2}{}^{2}\,-\,8\,\,\text{m}_{1}{}^{2}\,\,\text{m}_{2}{}^{6}\,+\,\text{m}_{2}{}^{8}\,-\,12\,\,\text{m}_{1}{}^{4}\,\,\text{m}_{2}{}^{4}\,\,\text{Log}\!\left[\,\frac{\text{m}_{1}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,\right)\,\,\frac{1}{\left(\,\text{m}_{1}^{2}-\text{m}_{2}^{2}\,\right)^{5}}
\text{LF}_{3,3,-2}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right]\,\rightarrow\,\frac{1}{2}\,\,\left(\,\text{m}_{1}{}^{6}\,-\,\text{m}_{2}{}^{6}\,+\,3\,\,\text{m}_{1}{}^{4}\,\,\text{m}_{2}{}^{2}\,\,\left(\,3\,-\,2\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\,\right]\,\right)\,-\,3\,\,\text{m}_{1}{}^{2}\,\,\text{m}_{2}{}^{4}\,\,\left(\,3\,+\,2\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,5}}
\text{LF}_{3,3,-1}\left[\,m_{1}\,,\,m_{2}\,\right]\,\rightarrow\,-\,\left(\,m_{1}^{\,\,4}\,\left(\,-\,3\,+\,\text{Log}\left[\,\frac{m_{1}^{\,\,2}}{m_{2}^{\,\,2}}\,\right]\,\right)\,+\,4\,\,m_{1}^{\,\,2}\,\,m_{2}^{\,\,2}\,\,\text{Log}\left[\,\frac{m_{1}^{\,\,2}}{m_{2}^{\,\,2}}\,\right]\,+\,m_{2}^{\,\,4}\,\,\left(\,3\,+\,\text{Log}\left[\,\frac{m_{1}^{\,\,2}}{m_{2}^{\,\,2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,m_{1}^{\,\,2}-m_{2}^{\,\,2}\,\right)^{\,\,5}}
\text{LF}_{3,3,0}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right]\,\rightarrow\,\frac{1}{2}\,\,\frac{1}{\text{m}_{1}^{\,2}}\,\,\left(\text{m}_{1}^{\,6}\,-\,\text{m}_{2}^{\,6}\,+\,3\,\,\text{m}_{1}^{\,4}\,\,\text{m}_{2}^{\,2}\,\,\left(3\,-\,2\,\,\text{Log}\left[\,\frac{\text{m}_{1}^{\,2}}{\text{m}_{2}^{\,2}}\,\right]\,\right)\,-\,3\,\,\text{m}_{1}^{\,2}\,\,\text{m}_{2}^{\,4}\,\,\left(3\,+\,2\,\,\text{Log}\left[\,\frac{\text{m}_{1}^{\,2}}{\text{m}_{2}^{\,2}}\,\right]\,\right)\right)\,\,\frac{1}{\left(\text{m}_{1}^{\,2}-\text{m}_{2}^{\,2}\right)^{5}}
\text{LF}_{4,1,-2}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right]\,\rightarrow\,\frac{1}{6}\,\,\left(\,-\,2\,\,\text{m}_{1}{}^{6}\,+\,9\,\,\text{m}_{1}{}^{4}\,\,\text{m}_{2}{}^{2}\,-\,18\,\,\text{m}_{1}{}^{2}\,\,\text{m}_{2}{}^{4}\,+\,\text{m}_{2}{}^{6}\,\,\left(\,11\,+\,6\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,\text{m}_{1}{}^{2}-\text{m}_{2}{}^{2}\,\right)^{4}}
\text{LF}_{4,1,-1}\left[\,\text{m}_{1}\,,\,\text{m}_{2}\,\right]\,\rightarrow\,\frac{1}{6}\,\,\frac{1}{\,\text{m}_{1}{}^{2}}\,\,\left(\,\text{m}_{1}{}^{6}\,-\,6\,\,\text{m}_{1}{}^{4}\,\,\text{m}_{2}{}^{2}\,+\,2\,\,\text{m}_{2}{}^{6}\,+\,3\,\,\text{m}_{1}{}^{2}\,\,\text{m}_{2}{}^{4}\,\,\left(\,1\,+\,2\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\,\text{m}_{2}{}^{2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\,\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,4}}
\text{LF}_{4,2,-3}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right]\,\rightarrow\,\frac{1}{3}\,\,\left(\,-\,\text{m}_{1}{}^{8}\,+\,6\,\,\text{m}_{1}{}^{6}\,\,\text{m}_{2}{}^{2}\,-\,18\,\,\text{m}_{1}{}^{4}\,\,\text{m}_{2}{}^{4}\,+\,3\,\,\text{m}_{2}{}^{8}\,+\,2\,\,\text{m}_{1}{}^{2}\,\,\text{m}_{2}{}^{6}\,\,\left(\,5\,+\,6\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,\text{m}_{1}{}^{2}-\text{m}_{2}{}^{2}\,\right)^{5}}
\text{LF}_{4,2,-2}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right]\,\rightarrow\,\frac{1}{6}\,\,\left(\,\text{m}_{1}{}^{6}\,-\,9\,\,\text{m}_{1}{}^{4}\,\,\text{m}_{2}{}^{2}\,+\,9\,\,\text{m}_{1}{}^{2}\,\,\text{m}_{2}{}^{4}\,\,\left(-\,1\,+\,2\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\,\right]\,\right)\,+\,\text{m}_{2}{}^{6}\,\,\left(\,17\,+\,6\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,\text{m}_{1}{}^{2}\,-\text{m}_{2}{}^{2}\,\right)^{5}}
LF_{4,2,-1}[m_1, m_2] \rightarrow
   \text{LF}_{5,1,-3}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,\right]\,\rightarrow\,-\,\frac{1}{12}\,\,\left(\,3\,\,\text{m}_{1}{}^{8}\,-\,16\,\,\text{m}_{1}{}^{6}\,\,\text{m}_{2}{}^{2}\,+\,36\,\,\text{m}_{1}{}^{4}\,\,\text{m}_{2}{}^{4}\,-\,48\,\,\text{m}_{1}{}^{2}\,\,\text{m}_{2}{}^{6}\,+\,\text{m}_{2}{}^{8}\,\,\left(\,25\,+\,12\,\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\left(\,\text{m}_{1}{}^{2}-\text{m}_{2}{}^{2}\,\right)^{5}}
\mathsf{LF_{5,1,-2}}\left[\,\mathsf{m_{1}}\,,\,\,\mathsf{m_{2}}\,\right] \,\rightarrow\, \frac{1}{12}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}}\,\,\left(\,\mathsf{m_{1}}^{\,8}\,-\,6\,\,\mathsf{m_{1}}^{\,6}\,\,\mathsf{m_{2}}^{\,2}\,+\,18\,\,\mathsf{m_{1}}^{\,4}\,\,\mathsf{m_{2}}^{\,4}\,-\,3\,\,\mathsf{m_{2}}^{\,8}\,-\,2\,\,\mathsf{m_{1}}^{\,2}\,\,\mathsf{m_{2}}^{\,6}\,\,\left(\,5\,+\,6\,\,\mathsf{Log}\left[\,\frac{\mathsf{m_{1}}^{\,2}}{\,\mathsf{m_{2}}^{\,2}}\,\right]\,\right)\,\right)\,\,\frac{1}{\,\left(\,\mathsf{m_{1}}^{\,2}\,-\,\mathsf{m_{2}}^{\,2}\,\right)^{\,5}}
\mathsf{LF}_{1,1,1,-1}[\,\mathsf{m}_1,\,\mathsf{m}_2,\,\mathsf{m}_3\,] \,\to\,
              \left(m_{1}^{4} \left(m_{2}^{2} - m_{3}^{2}\right) \left(1 + \text{Log}\left[\frac{\overline{\mu}^{2}}{m_{1}^{2}}\right]\right) - m_{2}^{4} \left(m_{1}^{2} - m_{3}^{2}\right) \left(1 + \text{Log}\left[\frac{\overline{\mu}^{2}}{m_{2}^{2}}\right]\right) + m_{3}^{4} \left(m_{1}^{2} - m_{2}^{2}\right) \left(1 + \text{Log}\left[\frac{\overline{\mu}^{2}}{m_{3}^{2}}\right]\right)\right)
                         \frac{1}{{{{m_1}^2} - {m_2}^2}} \quad \frac{1}{{{{m_1}^2} - {m_3}^2}} \quad \frac{1}{{{{m_2}^2} - {m_3}^2}}
\mathsf{LF}_{1,1,1,0}[m_1, m_2, m_3] \rightarrow
                      \left( m_2^2 \; m_3^2 \; \left( \text{Log} \left[ \frac{m_1^2}{m_2^2} \right] - \text{Log} \left[ \frac{m_1^2}{m_3^2} \right] \right) \; + \; m_1^2 \; \left( - \; m_2^2 \; \text{Log} \left[ \frac{m_1^2}{m_2^2} \right] \; + \; m_3^2 \; \text{Log} \left[ \frac{m_1^2}{m_3^2} \right] \right) \right) \; \\ \frac{1}{m_1^2 - m_2^2} \; \frac{1}{m_1^2 - m_3^2} \; \frac{1}{m_2^2 - m_3^2} \;
LF_{2,1,1,-2}[m_1, m_2, m_3] \rightarrow
              -\,m_{1}^{\,\,6}\,\left(2\,\,m_{1}^{\,\,2}\,-\,m_{2}^{\,\,2}\,-\,m_{3}^{\,\,2}\right)\,\,\left(1\,+\,Log\left[\,\frac{\overline{\mu}^{2}}{m_{1}^{\,\,2}}\,\,\right]\,\right)\,\,\frac{1}{\left(m_{1}^{\,\,2}-m_{2}^{\,\,2}\right)^{\,\,2}}\,\,\frac{1}{\left(m_{1}^{\,\,2}-m_{3}^{\,\,2}\right)^{\,\,2}}\,\,+\,m_{1}^{\,\,4}\,\,\left(2\,+\,3\,\,Log\left[\,\frac{\overline{\mu}^{2}}{m_{1}^{\,\,2}}\,\,\right]\,\right)\,\,\frac{1}{m_{1}^{\,\,2}-m_{2}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{1}^{\,\,4}\,\left(2\,+\,3\,\,Log\left[\,\frac{\overline{\mu}^{2}}{m_{1}^{\,\,2}}\,\,\right]\,\right)\,\,\frac{1}{m_{1}^{\,\,2}-m_{2}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{2}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{3}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{3}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{3}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{3}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{3}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{3}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{3}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{3}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,+\,m_{3}^{\,\,2}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m_{3}^{\,\,2}}\,\frac{1}{m_{1}^{\,\,2}-m
                                               m_2{}^6 \ \left( \mathbf{1} + \text{Log} \left[ \frac{\overline{\mu}^2}{m_2{}^2} \right] \right) \ \frac{1}{(m_1{}^2 - m_2{}^2)^2} \ \frac{1}{m_2{}^2 - m_3{}^2} \ + \ m_3{}^6 \ \left( \mathbf{1} + \text{Log} \left[ \frac{\overline{\mu}^2}{m_3{}^2} \right] \right) \ \frac{1}{(m_1{}^2 - m_3{}^2)^2} \ \frac{1}{-m_2{}^2 + m_3{}^2} \ \frac{1}{(m_1{}^2 - m_3{}^2)^2} \ \frac{1}{(m_1{}^2
\mathsf{LF}_{2,1,1,-1}[\,\mathsf{m}_1,\,\mathsf{m}_2,\,\mathsf{m}_3\,] \,\to\,
                     \left(m_{1}^{6} \left(-m_{2}^{2}+m_{3}^{2}\right)+m_{2}^{4} m_{3}^{4} \left(\text{Log}\left[\frac{m_{1}^{2}}{m_{2}^{2}}\right]-\text{Log}\left[\frac{m_{1}^{2}}{m_{3}^{2}}\right]\right)+m_{1}^{4} \left(m_{2}^{4} \left(1+\text{Log}\left[\frac{m_{1}^{2}}{m_{2}^{2}}\right]\right)-m_{3}^{4} \left(1+\text{Log}\left[\frac{m_{1}^{2}}{m_{3}^{2}}\right]\right)\right)+m_{2}^{4} \left(1+\text{Log}\left[\frac{m_{1}^{2}}{m_{2}^{2}}\right]\right)
                                                                                                            m_{1}{}^{2} \ \left(-\,m_{2}{}^{4} \ m_{3}{}^{2} \ \left(1+2 \ Log\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right]\,\right) \ + \ m_{2}{}^{2} \ m_{3}{}^{4} \ \left(1+2 \ Log\left[\,\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\,\right]\,\right)\,\right)\,\right) \ \frac{1}{\left(m_{1}{}^{2}-m_{2}{}^{2}\right)^{2}} \ \frac{1}{\left(m_{1}{}^{2}-m_{3}{}^{2}\right)^{2}} \ \frac{1}{m_{2}{}^{2}-m_{3}{}^{2}} \ \frac{1}{m_{2}{}^{2}-m_{3}{}^{2}-m_{3}{}^{2}} \ \frac{1}{m_{2}{}^{2}-m_{3}{}^{2}-m_{3}{}^{2}
\mathsf{LF}_{2,1,1,0} \, [\, \mathsf{m}_{1} \,, \, \, \mathsf{m}_{2} \,, \, \, \mathsf{m}_{3} \,] \, \rightarrow \, \left( -\, \mathsf{m}_{1}^{\,\, 2} \, \left( \, 2 \, \, \mathsf{m}_{1}^{\,\, 2} \, - \, \mathsf{m}_{2}^{\,\, 2} \, - \, \mathsf{m}_{3}^{\,\, 2} \, \right) \, \, \left( \mathsf{m}_{2}^{\,\, 2} \, - \, \mathsf{m}_{3}^{\,\, 2} \, \right) \, + \, \right.
                                                                                                            m_{2}^{2} \; \left( \mathbf{1} + \text{Log} \left[ \, \frac{m_{1}^{\, 2}}{m_{2}^{\, 2}} \, \right] \, \right) \; \left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2} - m_{3}^{\, 2} \; \left( \mathbf{1} + \text{Log} \left[ \, \frac{m_{1}^{\, 2}}{m_{3}^{\, 2}} \, \right] \, \right) \; \left( m_{1}^{\, 2} - m_{2}^{\, 2} \, \right)^{\, 2} \right) \; \frac{1}{\left( m_{1}^{\, 2} - m_{2}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \, \right)^{\, 2}} \; \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 
\mathsf{LF}_{2,2,1,-2}\,[\,\mathsf{m}_1\,,\,\mathsf{m}_2\,,\,\mathsf{m}_3\,]\,\,\to\,-\,\mathsf{m}_1{}^6\,\,\left(\,3\,\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_2{}^2\,-\,2\,\,\mathsf{m}_3{}^2\,\right)\,\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_2{}^2\,)^3}\,\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,\,+\,\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2\,)^2}\,+\,\frac{1}{(\,\mathsf{m}_1{}^2\,-\,\mathsf{m}_3{}^2
                                                  2\;m_{1}^{\;4}\;\frac{1}{\left(m_{1}^{\;2}-m_{2}^{\;2}\right)^{\;2}}\;\frac{1}{m_{1}^{\;2}-m_{3}^{\;2}}\;-\;m_{2}^{\;6}\;\left(-\;m_{1}^{\;2}\;+\;3\;m_{2}^{\;2}\;-\;2\;m_{3}^{\;2}\right)\;\left(1\;+\;Log\left[\frac{m_{1}^{\;2}}{m_{2}^{\;2}}\right]\right)\;\frac{1}{\left(-m_{1}^{\;2}+m_{2}^{\;2}\right)^{\;3}}\;\frac{1}{\left(m_{2}^{\;2}-m_{3}^{\;2}\right)^{\;2}}\;+\;2\;m_{2}^{\;2}\left(-\;m_{1}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m_{2}^{\;2}+m
                                                  {m_2}^4 \ \left(2 + 3 \ Log \left[ \, \frac{{m_1}^2}{{m_2}^2} \, \, \right] \, \right) \ \frac{1}{\left({m_1}^2 - {m_2}^2\right)^2} \ \frac{1}{{m_2}^2 - {m_3}^2} \ + \ m_3{}^6 \ \left(1 + \ Log \left[ \, \frac{{m_1}^2}{{m_3}^2} \, \, \right] \, \right) \ \frac{1}{\left({m_1}^2 - {m_3}^2\right)^2} \ \frac{1}{\left({m_2}^2 - {m_2}^2\right)^2} \ \frac{
\mathsf{LF}_{2,2,1,-1}\,[\,\mathsf{m}_{1}\,,\,\,\mathsf{m}_{2}\,,\,\,\mathsf{m}_{3}\,]\,\,\rightarrow\,\,-\,\,\mathsf{m}_{1}^{\,\,4}\,\,\left(\,3\,\,\mathsf{m}_{1}^{\,\,2}\,-\,\mathsf{m}_{2}^{\,\,2}\,-\,2\,\,\mathsf{m}_{3}^{\,\,2}\,\right)\,\,\frac{1}{\left(\,\mathsf{m}_{1}^{\,\,2}\,-\,\mathsf{m}_{2}^{\,\,2}\,\right)^{\,3}}\,\,\frac{1}{\left(\,\mathsf{m}_{1}^{\,\,2}\,-\,\mathsf{m}_{3}^{\,\,2}\,\right)^{\,\,2}}\,\,+\,\,2\,\,\mathsf{m}_{3}^{\,\,2}\,\,.
                                               m_{1}^{2} \; \frac{1}{\left(m_{1}^{2} - m_{2}^{2}\right)^{2}} \; \frac{1}{m_{1}^{2} - m_{3}^{2}} \; - \; m_{2}^{4} \; \left(- \, m_{1}^{2} \; + \; 3 \; m_{2}^{\; 2} \; - \; 2 \; m_{3}^{\; 2}\right) \; \left(1 \; + \; Log\left[\frac{m_{1}^{2}}{m_{2}^{2}}\right]\right) \; \frac{1}{\left(-m_{1}^{\; 2} + m_{2}^{\; 2}\right)^{3}} \; \frac{1}{\left(m_{2}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; + \; \frac{1}{\left(m_{1}^{\; 2} + m_{2}^{\; 2}\right)^{3}} \; \frac{1}{\left(m_{1}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; + \; \frac{1}{\left(m_{1}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; \frac{1}{\left(m_{1}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; + \; \frac{1}{\left(m_{1}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; \frac{1}{\left(m_{1}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; + \; \frac{1}{\left(m_{1}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; \frac{1}{\left(m_{1}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; + \; \frac{1}{\left(m_{1}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; \frac{1}{\left(m_{1}^{\; 2} - m_{3}^{\; 2}\right)^{2}} \; + \; \frac{1}{\left(m_{1}^{\; 2} - m
                                               {m_2}^2 \ \left( 1 + 2 \ Log \left[ \frac{{m_1}^2}{{m_2}^2} \right] \right) \ \frac{1}{\left( {m_1}^2 - {m_2}^2 \right)^2} \ \frac{1}{{m_2}^2 - {m_3}^2} \ + \ m_3^4 \ \left( 1 + \ Log \left[ \frac{{m_1}^2}{{m_3}^2} \right] \right) \ \frac{1}{\left( {m_1}^2 - {m_3}^2 \right)^2} \ \frac{1}{\left( {m_2}^2 - {m_2}^2 \right)^2} \ \frac{
\mathsf{LF}_{2,2,1,0}\left[\,\mathsf{m}_{1}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{3}\,\right]\,\rightarrow\,-\,\mathsf{m}_{1}^{\,2}\,\left(\,3\,\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{2}^{\,2}\,-\,2\,\,\mathsf{m}_{3}^{\,2}\,\right)\,\,\frac{1}{\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{2}^{\,2}\,\right)^{\,3}}\,\,\frac{1}{\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,\right)^{\,2}}\,\,+\,\frac{1}{\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{2}^{\,2}\,\right)^{\,2}}\,\,\frac{1}{\,\mathsf{m}_{2}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}}\,\,\mathsf{Log}\left[\,\frac{\mathsf{m}_{1}^{\,2}}{\mathsf{m}_{2}^{\,2}}\,\right]\,-\,\mathsf{m}_{1}^{\,2}\left(\,3\,\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{2}^{\,2}\,-\,2\,\,\mathsf{m}_{3}^{\,2}\,\right)\,\,\frac{1}{\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,\right)^{\,2}}\,\,+\,\frac{1}{\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{2}^{\,2}\,\right)^{\,2}}\,\,\frac{1}{\,\mathsf{m}_{2}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}}\,\,\mathsf{Log}\left[\,\frac{\mathsf{m}_{1}^{\,2}}{\mathsf{m}_{2}^{\,2}}\,-\,2\,\,\mathsf{m}_{3}^{\,2}\,\right]\,+\,\mathsf{m}_{2}^{\,2}\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{2}^{\,2}\,-\,2\,\,\mathsf{m}_{3}^{\,2}\,\right)\,\,\frac{1}{\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{2}^{\,2}\,\right)^{\,2}}\,+\,\frac{1}{\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{2}^{\,2}\,\right)^{\,2}}\,\,\frac{1}{\,\mathsf{m}_{2}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}}\,\,\mathsf{Log}\left[\,\frac{\mathsf{m}_{1}^{\,2}}{\mathsf{m}_{2}^{\,2}}\,-\,2\,\,\mathsf{m}_{3}^{\,2}\,\right]\,+\,\mathsf{m}_{2}^{\,2}\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{2}^{\,2}\,-\,2\,\,\mathsf{m}_{3}^{\,2}\,\right)\,+\,\mathsf{m}_{3}^{\,2}\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,2\,\,\mathsf{m}_{3}^{\,2}\,\right)\,+\,\mathsf{m}_{3}^{\,2}\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,2\,\,\mathsf{m}_{3}^{\,2}\,\right)\,+\,\mathsf{m}_{3}^{\,2}\left(\,\mathsf{m}_{1}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_{3}^{\,2}\,-\,\mathsf{m}_
                                               m_{2}^{2} \left(-m_{1}^{2}+3 \; m_{2}^{2}-2 \; m_{3}^{2}\right) \; \left(1+Log\left[\frac{m_{1}^{2}}{m_{2}^{2}}\right]\right) \; \frac{1}{\left(-m_{1}^{2}+m_{2}^{2}\right)^{3}} \; \frac{1}{\left(m_{2}^{2}-m_{3}^{2}\right)^{2}} \; + \; m_{3}^{2} \; \left(1+Log\left[\frac{m_{1}^{2}}{m_{3}^{2}}\right]\right) \; \frac{1}{\left(m_{1}^{2}-m_{3}^{2}\right)^{2}} \; \frac{1}{\left(m_{2}^{2}-m_{3}^{2}\right)^{2}} \; \frac{1}{\left(m_{2}^{2}-m_{3}
\text{LF}_{3,1,1,-2}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,,\,\,\text{m}_{3}\,\right]\,\rightarrow\,\frac{1}{2}\,\,\left(\,\text{m}_{1}{}^{10}\,\,\left(\,-\,\text{m}_{2}{}^{2}\,+\,\text{m}_{3}{}^{2}\,\right)\,+\,4\,\,\text{m}_{1}{}^{8}\,\,\left(\,\text{m}_{2}{}^{4}\,-\,\text{m}_{3}{}^{4}\,\right)\,+\,2\,\,\text{m}_{2}{}^{6}\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,-\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}{}^{2}}\,\right]\,\right)\,+\,3\,\,\text{m}_{1}{}^{8}\,\,\left(\,\text{m}_{2}{}^{4}\,-\,\text{m}_{3}{}^{4}\,\right)\,+\,2\,\,\text{m}_{2}{}^{6}\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,-\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}{}^{2}}\,\right]\,\right)\,+\,3\,\,\text{m}_{2}{}^{6}\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,-\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}{}^{2}}\,\right]\,\right)\,+\,3\,\,\text{m}_{2}{}^{6}\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,-\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}{}^{2}}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{2}{}^{2}}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}{}^{2}}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}{}^{2}}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}{}^{2}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}{}^{2}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left[\,\frac{\text{m}_{1}{}^{2}}{\text{m}_{3}\,\right]\,\right)\,+\,3\,\,\text{m}_{3}{}^{6}\,\,\left(\,\text{Log}\left
                                                                                                            {m_{1}}^{6} \; \left(-\, 9 \; {m_{2}}^{4} \; {m_{3}}^{2} \; + \; 9 \; {m_{2}}^{2} \; {m_{3}}^{4} \; - \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right)\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right)\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right)\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right)\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right)\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{3}}^{2}}\right]\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{3}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 \; Log\left[\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\right]\right) \; + \; {m_{2}}^{6} \; \left(3 \; + \; 2 
                                                                                                            \label{eq:m14} m_{1}{}^{4} \; \left(2 \; m_{2}{}^{6} \; m_{3}{}^{2} \; \left(4 \; + \; 3 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{2}{}^{2}} \, \right] \, \right) \; - \; 2 \; m_{2}{}^{2} \; m_{3}{}^{6} \; \left(4 \; + \; 3 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \, \right) \, \right) \; + \; 0 \; m_{1}{}^{2} \; m_{2}{}^{2} \; m_{3}{}^{2} \; \left(4 \; + \; 3 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \, \right) \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} \; \left(4 \; + \; 3 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \, \right) \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} \; \left(4 \; + \; 3 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \, \right) \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} \; \left(4 \; + \; 3 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \, \right) \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} \; \left(4 \; + \; 3 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \, \right) \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} \; \left(4 \; + \; 3 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \, \right) \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} \; m_{3}{}^
                                                                                                                m_{1}^{2} \ \left(-\,m_{2}^{\,\,6} \ m_{3}^{\,\,4} \ \left(5\,+\,6 \ \text{Log} \left[\,\frac{m_{1}^{\,\,2}}{m_{2}^{\,\,2}}\,\right]\,\right) \,+\, m_{2}^{\,\,4} \ m_{3}^{\,\,6} \ \left(5\,+\,6 \ \text{Log} \left[\,\frac{m_{1}^{\,\,2}}{m_{3}^{\,\,2}}\,\right]\,\right)\,\right)\,\right) \ \frac{1}{\left(m_{1}^{\,\,2}-m_{2}^{\,\,2}\right)^{\,3}} \ \frac{1}{\left(m_{1}^{\,\,2}-m_{3}^{\,\,2}\right)^{\,3}} \ \frac{1}{m_{2}^{\,\,2}-m_{3}^{\,\,2}} \left(-\,m_{2}^{\,\,2} \,m_{3}^{\,\,2} \,m_{3}^{
\mathsf{LF_{3,1,1,-1}}[\,\mathsf{m_1},\,\mathsf{m_2},\,\mathsf{m_3}\,] \,\to\, \frac{1}{2} \, \left(\mathsf{m_1}^8 \, \left(\mathsf{m_2}^2 - \mathsf{m_3}^2\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_3}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_3}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_3}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_3}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_3}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_3}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_3}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_1}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_2}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_2}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_2}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_2}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_3}^6 \, \left(3 + 2 \, \mathsf{Log}\!\left[\frac{\mathsf{m_2}^2}{\mathsf{m_2}^2}\right]\right) \,+\, \mathsf{m_2}^4 \, \mathsf{m_2}^2 \, \mathsf{m_2}^2 \, \mathsf{m_2}^2 \, \mathsf{m_2}^2 \,+\, \mathsf{m_2}^2 \, \mathsf{m_2}^2 \, \mathsf{m_2}^2 \,+\, \mathsf{m_2}^2
                                                                                                            \label{eq:m14} m_{1}{}^{4} \ \left( -\,m_{2}{}^{6} \,+\, m_{3}{}^{6} \,+\, 3\,\, m_{2}{}^{4} \,\, m_{3}{}^{2} \ \left( -\,1 \,+\, 2\,\, Log\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\,\right]\,\right) \,\,+\, 3\,\, m_{2}{}^{2} \,\, m_{3}{}^{4} \,\, \left(1 \,-\, 2\,\, Log\left[\,\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\,\,\right]\,\right)\,\right) \,\, -\, m_{1}{}^{2} \,\, m_{2}{}^{2} \,\, m_{3}{}^{2} \,\, m_{
                                                                                                            m_{2}{}^{6}\ m_{3}{}^{4}\ \left(3+2\ \text{Log}\!\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right) + m_{1}{}^{6}\ \left(-2\ m_{2}{}^{4}\ \text{Log}\!\left[\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\right] + 2\ m_{3}{}^{4}\ \text{Log}\!\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right) + m_{1}{}^{6}\ \left(-2\ m_{2}{}^{4}\ \text{Log}\!\left[\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\right] + 2\ m_{3}{}^{4}\ \text{Log}\!\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right) + m_{1}{}^{6}\ \left(-2\ m_{2}{}^{4}\ \text{Log}\!\left[\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\right] + 2\ m_{3}{}^{4}\ \text{Log}\!\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right) + m_{1}{}^{6}\ \left(-2\ m_{2}{}^{4}\ \text{Log}\!\left[\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\right]\right) + m_{2}{}^{6}\ m_{3}{}^{4}\ m_
                                                                                                            m_{1}^{2} \; \left(4 \; m_{2}^{6} \; m_{3}^{\; 2} - 4 \; m_{2}^{\; 2} \; m_{3}^{\; 6} + 6 \; m_{2}^{\; 4} \; m_{3}^{\; 4} \; \left( - \, Log \left[ \, \frac{m_{1}^{\; 2}}{m_{2}^{\; 2}} \, \right] + \, Log \left[ \, \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \, \right] \right) \, \right) \; \\ \frac{1}{\left( m_{1}^{\; 2} - m_{2}^{\; 2} \right)^{\; 3}} \; \frac{1}{\left( m_{1}^{\; 2} - m_{3}^{\; 2} \right)^{\; 3}} \; \frac{1}{m_{2}^{\; 2} - m_{3}^{\; 2}} \; \frac{1
                     -\frac{1}{2}\ \frac{1}{{{m_{1}}^{2}}}\ \frac{1}{{{m_{1}}^{2}}-{{m_{2}}^{2}}}\ \frac{1}{{{m_{1}}^{2}}-{{m_{3}}^{2}}}\ +\ {{m_{1}}^{2}}\ \left(3\ {{m_{1}}^{4}}\ +\ {{m_{2}}^{4}}\ +\ {{m_{2}}^{2}}\ {{m_{3}}^{2}}\ +\ {{m_{3}}^{4}}\ -\ 3\ {{m_{1}}^{2}}\ \left({{m_{2}}^{2}}\ +\ {{m_{3}}^{2}}\right)\right)\ \frac{1}{\left({{m_{1}}^{2}}-{{m_{2}}^{2}}\right)^{3}}\ \frac{1}{\left({{m_{1}}^{2}}-{{m_{3}}^{2}}\right)^{3}}\ +\ {{m_{1}}^{2}}\ \left(3\ {{m_{1}}^{4}}\ +\ {{m_{2}}^{4}}\ +\ {{m_{2}}^{2}}\ {{m_{3}}^{4}}\ +\ {{m_{3}}^{4}}\ -\ 3\ {{m_{1}}^{2}}\ \left({{m_{2}}^{2}}\ +\ {{m_{3}}^{2}}\right)\right)
                                                  m_2^2 \ \left( 1 + \text{Log} \left[ \, \frac{m_1^{\, 2}}{m_2^{\, 2}} \, \right] \, \right) \ \frac{1}{\left( -m_1^{\, 2} + m_2^{\, 2} \right)^3} \ \frac{1}{m_2^{\, 2} - m_3^{\, 2}} \ + \ m_3^{\, 2} \ \left( 1 + \text{Log} \left[ \, \frac{m_1^{\, 2}}{m_3^{\, 2}} \, \right] \, \right) \ \frac{1}{\left( -m_1^{\, 2} + m_3^{\, 2} \right)^3} \ \frac{1}{-m_2^{\, 2} + m_3^{\, 2}} \ \frac{1}{m_3^{\, 2} + m_3^{\, 2}} \ \frac
\text{LF}_{3,2,1,-3}\left[\,\text{m}_{1}\,,\,\,\text{m}_{2}\,,\,\,\text{m}_{3}\,\right]\,\,\rightarrow\,\,-\,3\,\,\text{m}_{1}{}^{6}\,\,\left(\,3\,\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,-\,2\,\,\text{m}_{3}{}^{2}\,\right)\,\,\frac{1}{\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,2}}\,\,+\,\frac{5}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,2}}\,\,\frac{1}{\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,2}}\,\,\frac{1}{\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,2}}\,\,\frac{1}{\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,2}}\,\,\frac{1}{\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,2}}\,\,\frac{1}{\,\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\left(\,\text{m}_{1}{}^{2}\,-\,\text{m}_{2}{}^{2}\,\right)^{\,2}}\,\,\frac{1}{\,\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\,\text{m}_{1}{}^{2}\,-\,\text{m}_{3}{}^{2}}\,\,+\,\frac{1}{2}\,\,\text{m}_{1}{}^{\,4}\,\,\frac{1}{\,\,\text{m}_{1}{}^{\,4}\,\,\,\text{m}_{1}{}^{\,4}\,\,\,\text{m}_{1}{}^{\,4}\,\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}\,\,\text{m}_{2}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}^{\,4}\,\,\text{m}_{2}{}
                                                  m_{1}{}^{8} \left. \left( 6 \; m_{1}{}^{4} \; + \; m_{2}{}^{4} \; + \; 2 \; m_{2}{}^{2} \; m_{3}{}^{2} \; + \; 3 \; m_{3}{}^{4} \; - \; 4 \; m_{1}{}^{2} \; \left( m_{2}{}^{2} \; + \; 2 \; m_{3}{}^{2} \right) \right) \; \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - \; 2 \; m_{1}{}^{2} \left( m_{1}{}^{2} \; + \; 2 \; m_{3}{}^{2} \right) \; \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - \; 2 \; m_{2}{}^{2} \left( m_{2}{}^{2} \; + \; 2 \; m_{3}{}^{2} \right) \; \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4}} \; \frac{1}{\left( m_{1}{}^{2} - m_{
                                               {m_{2}}^{8} \ \left(-\,{m_{1}}^{2} \,+\, 4\,\,{m_{2}}^{2} \,-\, 3\,\,{m_{3}}^{2}\right) \ \left(1\,+\, Log\left[\,\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\,\right]\,\right) \ \frac{1}{\left({m_{1}}^{2} - {m_{2}}^{2}\right)^{4}} \ \frac{1}{\left({m_{2}}^{2} - {m_{3}}^{2}\right)^{2}} \ +\, \frac{1}{\left({m_{2}}^{2} - {m_{3}}^{2}\right)^{2}} \ \left(-\,{m_{1}}^{2} + 4\,\,{m_{2}}^{2} \,+\, 4\,\,{m_{2}
                                                  m_2{}^6 \ \left( 3 + 4 \ \text{Log} \left[ \frac{m_1{}^2}{m_2{}^2} \, \right] \right) \ \frac{1}{\left( -m_1{}^2 + m_2{}^2 \right)^3} \ \frac{1}{m_2{}^2 - m_3{}^2} \ + \ m_3{}^8 \ \left( 1 + \ \text{Log} \left[ \, \frac{m_1{}^2}{m_3{}^2} \, \right] \right) \ \frac{1}{\left( m_2{}^2 - m_3{}^2 \right)^2} \ \frac{1}{\left( -m_1{}^2 + m_3{}^2 \right)^3} \ \frac{1}{\left( -m_1{}^2 + m_3{}^2 \right)^3} \ \frac{1}{m_2{}^2 - m_3{}^2} \ \frac{1}{m_2{}^
m_{1}{}^{6} \left( 6 \; m_{1}{}^{4} + m_{2}{}^{4} + 2 \; m_{2}{}^{2} \; m_{3}{}^{2} + 3 \; m_{3}{}^{4} - 4 \; m_{1}{}^{2} \; \left( m_{2}{}^{2} + 2 \; m_{3}{}^{2} \right) \right) \; \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - 2 \left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3} \; - 2 
                                               {m_{2}}^{6} \ \left(-\,{m_{1}}^{2} \,+\, 4\,\,{m_{2}}^{2} \,-\, 3\,\,{m_{3}}^{2}\right) \ \left(1\,+\, Log\left[\,\frac{{m_{1}}^{2}}{{m_{2}}^{2}}\,\right]\,\right) \ \frac{1}{\left({m_{1}}^{2} - {m_{2}}^{2}\right)^{4}} \ \frac{1}{\left({m_{2}}^{2} - {m_{3}}^{2}\right)^{2}} \ +\, \frac{1}{\left({m_{2}}^{2} - {m_{3}}^{2}\right)^{2}} \ \left(-\,{m_{1}}^{2} + 4\,\,{m_{2}}^{2} \,+\, 4\,\,{m_{2}
                                                  m_2^4 \ \left(2 + 3 \ \text{Log} \left[\frac{m_1^2}{m_2^2}\right]\right) \ \frac{1}{\left(-m_1^2 + m_2^2\right)^3} \ \frac{1}{m_2^2 - m_3^2} \ + \ m_3^6 \ \left(1 + \ \text{Log} \left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{\left(m_2^2 - m_3^2\right)^2} \ \frac{1}{\left(-m_1^2 + m_3^2\right)^3} \ \frac{1}{\left(-m_1^2 + m_3^2\right)^3} \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2} \ \frac{1}{m_
\mathsf{LF_{3,2,1,-1}}\left[\,\mathsf{m_{1}}\,,\,\,\mathsf{m_{2}}\,,\,\,\mathsf{m_{3}}\,\right]\,\,\rightarrow\,\,-\,\,\mathsf{m_{1}}^{2}\,\,\left(\,3\,\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{2}}^{2}\,-\,2\,\,\mathsf{m_{3}}^{2}\,\right)\,\,\frac{1}{\left(\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{2}}^{2}\,\right)^{\,3}}\,\,\,\frac{1}{\left(\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}\,\right)^{\,2}}\,\,-\,\frac{1}{2}\,\,\,\frac{1}{\left(\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{2}}^{2}\,\right)^{\,2}}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{\,2}}\,\,+\,\,\frac{1}{2}\,\,\,\frac{1}{\left(\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{2}}^{2}\,\right)^{\,2}}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,\,+\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,+\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,+\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,+\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,+\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,+\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,+\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,+\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,+\,\frac{1}{2}\,\,\frac{1}{\,\mathsf{m_{1}}^{2}\,-\,\mathsf{m_{3}}^{2}}\,+\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1}{2}\,\,\mathsf{m_{3}}^{2}\,-\,\frac{1
                                                  m_{1}{}^{4} \left. \left( 6 \; m_{1}{}^{4} \; + \; m_{2}{}^{4} \; + \; 2 \; m_{2}{}^{2} \; m_{3}{}^{2} \; + \; 3 \; m_{3}{}^{4} \; - \; 4 \; m_{1}{}^{2} \; \left( m_{2}{}^{2} \; + \; 2 \; m_{3}{}^{2} \right) \right. \right) \; \frac{1}{\left. \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - \; 3 \; m_{3}{}^{2} \; + \; 3 \; m_{3}{}^{4} \; - \; 4 \; m_{1}{}^{2} \; \left( m_{2}{}^{2} \; + \; 2 \; m_{3}{}^{2} \right) \right) \; \frac{1}{\left. \left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{3}} \; - \; 3 \; m_{3}{}^{2} \; + \; 3 \; m
                                               {m_2}^4 \ \left(-\,{m_1}^2 \,+\, 4\,\,{m_2}^2 \,-\, 3\,\,{m_3}^2\right) \ \left(1 \,+\, Log\left[\,\frac{{m_1}^2}{{m_2}^2}\,\right]\,\right) \ \frac{1}{\left({m_1}^2 - {m_2}^2\right)^4} \ \frac{1}{\left({m_2}^2 - {m_3}^2\right)^2} \ + \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} + 
                                           m_2^2 \ \left( 1 + 2 \ \text{Log} \left[ \, \frac{m_1^{\, 2}}{m_2^{\, 2}} \, \right] \right) \ \frac{1}{\left( -m_1^{\, 2} + m_2^{\, 2} \right)^3} \ \frac{1}{m_2^{\, 2} - m_3^{\, 2}} \ + \ m_3^{\, 4} \ \left( 1 + \ \text{Log} \left[ \, \frac{m_1^{\, 2}}{m_3^{\, 2}} \, \right] \right) \ \frac{1}{\left( m_2^{\, 2} - m_3^{\, 2} \right)^2} \ \frac{1}{\left( -m_1^{\, 2} + m_3^{\, 2} \right)^3} \ \frac{1}{\left( -m_1^{\, 2} + m_3^{\, 2} + m_3^{\, 2} \right)^
LF_{3,2,1,0}[m_1, m_2, m_3] \rightarrow
                     -\,\frac{1}{2}\,\,\frac{1}{\left(m_{1}^{3}-m_{1}\,m_{2}^{2}\right)^{2}}\,\,\frac{1}{m_{1}^{2}-m_{3}^{2}}\,+\,m_{1}^{2}\,\,\left(6\,\,m_{1}^{4}\,+\,m_{2}^{\,\,4}\,+\,2\,\,m_{2}^{\,\,2}\,\,m_{3}^{\,\,2}\,+\,3\,\,m_{3}^{\,\,4}\,-\,4\,\,m_{1}^{\,\,2}\,\,\left(m_{2}^{\,\,2}\,+\,2\,\,m_{3}^{\,\,2}\right)\,\right)\,\,\frac{1}{\left(m_{1}^{2}-m_{2}^{\,\,2}\right)^{4}}\,\,\frac{1}{\left(m_{1}^{2}-m_{3}^{\,\,2}\right)^{3}}\,\,+\,m_{1}^{3}\,\,m_{1}^{3}\,\,m_{2}^{3}\,\,m_{2}^{3}\,\,m_{3}^{3}\,+\,m_{1}^{3}\,\,m_{2}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3}\,\,m_{3}^{3
                                                         \frac{1}{\left(-m_{1}^{2}+m_{2}^{2}\right)^{3}}\ \frac{1}{m_{2}^{2}-m_{3}^{2}}\ \text{Log}\left[\frac{m_{1}^{2}}{m_{2}^{2}}\right]\ -\ m_{2}^{2}\ \left(-m_{1}^{2}+4\ m_{2}^{2}-3\ m_{3}^{2}\right)\ \left(1+\text{Log}\left[\frac{m_{1}^{2}}{m_{2}^{2}}\right]\right)\ \frac{1}{\left(m_{1}^{2}-m_{2}^{2}\right)^{4}}\ \frac{1}{\left(m_{2}^{2}-m_{3}^{2}\right)^{2}}\ +\ m_{2}^{2}\left(-m_{1}^{2}+m_{2}^{2}+4\ m_{2}^{2}-3\ m_{3}^{2}\right)\ \left(1+\frac{1}{2}\right)^{2}\left(-m_{1}^{2}+m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_{2}^{2}+4m_
                                               {m_3}^2 \ \left( 1 + \text{Log} \left[ \, \frac{{m_1}^2}{{m_3}^2} \, \right] \right) \ \frac{1}{\left( {m_2}^2 - {m_3}^2 \right)^2} \ \frac{1}{\left( - {m_1}^2 + {m_3}^2 \right)^3}
\mathsf{LF_{4,1,1,-3}}\left[\,\mathsf{m_{1}}\,,\;\mathsf{m_{2}}\,,\;\mathsf{m_{3}}\,\right]\;\rightarrow\;\frac{1}{6}\;\left(\,-\;2\;\mathsf{m_{1}}^{14}\;\left(\,\mathsf{m_{2}}^{\,2}\,-\;\mathsf{m_{3}}^{\,2}\,\right)\;+\;9\;\mathsf{m_{1}}^{12}\;\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{1}}^{12}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{1}}^{12}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{3}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}}^{\,4}\,-\;\mathsf{m_{2}}^{\,4}\right)\;-\;2\;\mathsf{m_{2}}^{\,4}\left(\,\mathsf{m_{2}^{\,4}\,-\;\mathsf{m_{2}^{\,4}}\right)\;
                                                                                                                6\; m_{1}^{\;\;10}\; \left(3\; m_{2}^{\;\;6} + 4\; m_{2}^{\;\;4}\; m_{3}^{\;\;2} - 4\; m_{2}^{\;\;2}\; m_{3}^{\;\;4} - 3\; m_{3}^{\;\;6}\right) \; + \; 6\; m_{2}^{\;\;8}\; m_{3}^{\;\;8}\; \left(\text{Log}\left[\frac{m_{1}^{\;\;2}}{m_{2}^{\;\;2}}\right] - \text{Log}\left[\frac{m_{1}^{\;\;2}}{m_{3}^{\;\;2}}\right]\right) \; - \; 10\; m_{1}^{\;\;2}\; m_{2}^{\;\;2} + \; 10\; m_{2}^{\;\;2}\; m_{3}^{\;\;2} + \; 10\; m_{3}^{\;\;2}\; m_{3}^{\;\;2} + \; 10\; m_{3}^{\;\;2} + \; 10\; m_{3}^{\;\;2}\; m_{3}^{\;\;2} + \; 10\; m_
                                                                                                            6 \; m_{1}{}^{6} \; \left(12 \; m_{2}{}^{6} \; m_{3}{}^{4} \; - \; 12 \; m_{2}{}^{4} \; m_{3}{}^{6} \; + \; m_{2}{}^{8} \; m_{3}{}^{2} \; \left(7 \; + \; 4 \; Log\left[\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\right]\right) \; - \; m_{2}{}^{2} \; m_{3}{}^{8} \; \left(7 \; + \; 4 \; Log\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right)\right) \; + \; m_{2}{}^{2} \; m_{3}{}^{4} \; m_{3}{}^{4} \; + \; m_{2}{}^{4} \; m_{3}{}^{6} \; + \; m_{2}{}^{8} \; m_{3}{}^{2} \; \left(7 \; + \; 4 \; Log\left[\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\right]\right) \; + \; m_{2}{}^{2} \; m_{3}{}^{8} \; \left(7 \; + \; 4 \; Log\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right) \; + \; m_{2}{}^{2} \; m_{3}{}^{2} \; m_{3
                                                                                                            {m_{1}}^{8} \; \left(64 \; {m_{2}}^{6} \; {m_{3}}^{2} \; - \; 64 \; {m_{2}}^{2} \; {m_{3}}^{6} \; + \; {m_{2}}^{8} \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \right) \; - \; {m_{3}}^{8} \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \; \right] \right) \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \right) \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log\left[ \; \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \; \right] \; + \; \left(11 \; + \; 6 \; Log
                                                                                                            {m_{1}}^{2} \ \left(-\, 2 \ {m_{2}}^{8} \ {m_{3}}^{6} \ \left(13 + 12 \ \text{Log} \left[\, \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \, \right]\,\right) \ + \, 2 \ {m_{2}}^{6} \ {m_{3}}^{8} \ \left(13 + 12 \ \text{Log} \left[\, \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \, \right]\,\right)\, + \, 2 \ {m_{2}}^{6} \ {m_{3}}^{8} \ \left(13 + 12 \ \text{Log} \left[\, \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \, \right]\,\right) \ + \, 2 \ {m_{2}}^{6} \ {m_{3}}^{8} \ \left(13 + 12 \ \text{Log} \left[\, \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \, \right]\,\right) \ + \, 2 \ {m_{2}}^{6} \ {m_{3}}^{8} \ \left(13 + 12 \ \text{Log} \left[\, \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \, \right]\,\right) \ + \, 2 \ {m_{2}}^{6} \ {m_{3}}^{8} \ \left(13 + 12 \ \text{Log} \left[\, \frac{{m_{1}}^{2}}{{m_{3}}^{2}} \, \right]\,\right) \ + \, 2 \ {m_{2}}^{6} \ {m_{3}}^{8} \ \left(13 + 12 \ \text{Log} \left[\, \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \, \right]\,\right) \ + \, 2 \ {m_{2}}^{6} \ {m_{3}}^{8} \ \left(13 + 12 \ \text{Log} \left[\, \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \, \right]\,\right) \ + \, 2 \ {m_{2}}^{6} \ {m_{3}}^{8} \ \left(13 + 12 \ \text{Log} \left[\, \frac{{m_{1}}^{2}}{{m_{2}}^{2}} \, \right]\,\right) \ + \, 2 \ {m_{2}}^{6} \ {m_{2}}^{6} \ {m_{2}}^{8} \ {m_{2}}^{6} \ {m_{2}}^{8} \ {m_{2}}^{6} \ {m_{2}}^{8} \ {
                                                                                                                m_{1}^{4} \left( 3 \; m_{2}^{8} \; m_{3}^{4} \; \left( 19 + 12 \; Log \left[ \frac{m_{1}^{2}}{m_{2}^{2}} \right] \right) \; - \; 3 \; m_{2}^{4} \; m_{3}^{8} \; \left( 19 + 12 \; Log \left[ \frac{m_{1}^{2}}{m_{3}^{2}} \right] \right) \right) \right) \; \\ \frac{1}{\left( m_{1}^{2} - m_{2}^{2} \right)^{4}} \; \frac{1}{\left( m_{1}^{2} - m_{3}^{2} \right)^{4}} \; \frac{1}{m_{2}^{2} - m_{3}^{2}} \; \frac{1}{m_{2
m_{1}{}^{4} \; \left( -9 \; m_{2}{}^{8} \; m_{3}{}^{2} \; + \; 9 \; m_{2}{}^{2} \; m_{3}{}^{8} \; + \; 6 \; m_{2}{}^{6} \; m_{3}{}^{4} \; \left( -1 \; + \; 6 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{2}{}^{2}} \, \right] \, \right) \; + \; 6 \; m_{2}{}^{4} \; m_{3}{}^{6} \; \left( 1 \; - \; 6 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \, \right) \right) \; - \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{8} \; + \; 0 \; m_{2}{}^{6} \; m_{3}{}^{4} \; \left( -1 \; + \; 6 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{2}{}^{2}} \, \right] \, \right) \right) \; - \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{8} \; + \; 0 \; m_{2}{}^{6} \; m_{3}{}^{4} \; \left( -1 \; + \; 6 \; Log \left[ \, \frac{m_{1}{}^{2}}{m_{2}{}^{2}} \, \right] \, \right) \right) \; - \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{8} \; + \; 0 \; m_{2}{}^{2} \; m_{3}{}^{2} 
                                                                                                            m_{2}{}^{8}\ m_{3}{}^{6}\ \left(\text{11} + 6\ \text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\,\right]\,\right) \ + \ 6\ m_{1}{}^{2}\ \left(\text{3}\ m_{2}{}^{8}\ m_{3}{}^{4} - \text{3}\ m_{2}{}^{4}\ m_{3}{}^{8} + \text{4}\ m_{2}{}^{6}\ m_{3}{}^{6}\ \left(-\,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\,\right]\,\right)\,\right) \ + \ m_{2}{}^{6}\ m_{3}{}^{6}\ \left(\text{11} + 6\ \text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\,\right]\,\right)\,\right) \ + \ m_{2}{}^{6}\ m_{3}{}^{6}\ \left(\text{11} + 6\ \text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right]\,\right) + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\,\right]\,\right) \ + \ m_{2}{}^{6}\ m_{3}{}^{6}\ \left(\text{12} + 6\ \text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right]\,\right) + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right] \ + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}}{m_{2}}\,\right] + \,\text{Log}\left[\,\frac{m_{1}}{
                                                                                                                3~m_{1}^{8}~\left(6~m_{2}^{~4}~m_{3}^{~2}~-~6~m_{2}^{~2}~m_{3}^{~4}~+~m_{2}^{~6}~\left(1~+~2~Log\left[\frac{m_{1}^{~2}}{m_{2}^{~2}}\right]\right)~-~m_{3}^{~6}~\left(1~+~2~Log\left[\frac{m_{1}^{~2}}{m_{3}^{~2}}\right]\right)\right)~+~2~m_{1}^{~6}~m_{2}^{~4}~m_{3}^{~2}~
                                                                                                                                                \left(m_{2}{}^{8}-m_{3}{}^{8}-4\;m_{2}{}^{6}\;m_{3}{}^{2}\;\left(1+3\;Log\left[\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\right]\right)+4\;m_{2}{}^{2}\;m_{3}{}^{6}\;\left(1+3\;Log\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right)\right)\right)\;\frac{1}{\left(m_{1}{}^{2}-m_{2}{}^{2}\right)^{4}}\;\frac{1}{\left(m_{1}{}^{2}-m_{3}{}^{2}\right)^{4}}\;\frac{1}{m_{2}{}^{2}-m_{3}{}^{2}}
LF_{4,1,1,-1}[m_1, m_2, m_3] \rightarrow \frac{1}{6} \frac{1}{m_2^2}
                                                      \left(-2\; m_{2}{}^{8}\; m_{3}{}^{6}\; +\; 2\; m_{2}{}^{6}\; m_{3}{}^{8}\; -\; 2\; m_{1}{}^{12}\; \left(m_{2}{}^{2}\; -\; m_{3}{}^{2}\right)\; +\; 3\; m_{1}{}^{10}\; \left(m_{2}{}^{4}\; \left(-\; 1\; +\; 2\; Log\left[\frac{m_{1}{^{2}}}{m_{2}{}^{2}}\right]\right)\; +\; m_{3}{}^{4}\; \left(1\; -\; 2\; Log\left[\frac{m_{1}{^{2}}}{m_{3}{}^{2}}\right]\right)\right)\; +\; m_{3}{}^{4}\; \left(1\; -\; 2\; Log\left[\frac{m_{1}{^{2}}}{m_{3}{}^{2}}\right]\right)\; +\; m_{3}{}^{4}\; \left(1\; -\; 2\; Log\left[\frac{m_{1}{^{2}}}{m_{2}{}^{2}}\right]\right)\; +\; m_{2}{}^{4}\; \left(1\; -\; 2\; Log\left[\frac{m_{1}{^{2}}}{m_{1}{}^{2}}\right]\right)\; +\; m_{2}{}^{4}\; \left(1\; -\; 2\; Log\left[\frac{m_{1}{^{2}}}{m_{1}{}^{2}}\right]\; +\; m_{2}{}^{4}\; \left(1\; -\; 2\;
                                                                                                            \text{m_{1}}^{6} \ \left(-\,\text{m_{2}}^{\,8} \,-\, 32\,\,\text{m_{2}}^{\,6}\,\,\text{m_{3}}^{\,2} \,+\, 32\,\,\text{m_{2}}^{\,2}\,\,\text{m_{3}}^{\,6} \,+\, \text{m_{3}}^{\,8} \,+\, 36\,\,\text{m_{2}}^{\,4}\,\,\text{m_{3}}^{\,4}\,\,\left(\,\text{Log}\left[\,\frac{\text{m_{1}}^{\,2}}{\text{m_{2}}^{\,2}}\,\right] \,-\, \text{Log}\left[\,\frac{\text{m_{1}}^{\,2}}{\text{m_{3}}^{\,2}}\,\right]\,\right)\,\right) \,+\, \left(\,\text{Log}\left[\,\frac{\text{m_{2}}^{\,2}}{\text{m_{3}}^{\,2}}\,\right] \,+\, \text{Log}\left[\,\frac{\text{m_{2}}^{\,2}}{\text{m_{3}}^{\,2}}\,\right] \,\right)\,\,
                                                                                                            6 \; m_{1}^{\; 8} \; \left( m_{2}^{\; 6} - m_{3}^{\; 6} - 4 \; m_{2}^{\; 4} \; m_{3}^{\; 2} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{2}^{\; 2}} \right] \right) \right. \\ \left. + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \right) + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 4} \; \left( -1 + \text{Log} \left[ \frac{m_{1}^{\; 2}}{m_{3}^{\; 2}} \right] \right) \\ + 4 \; m_{2}^{\; 2} \; m_{3}^{\; 2} \; m_{3}^{\; 4} \; m_{3}^{\; 4} \; m_{3}^{\; 4} \; m_{3}^{\; 4} 
                                                                                                            6\ m_{1}{}^{4}\ m_{2}{}^{2}\ m_{3}{}^{2}\ \left(m_{2}{}^{6}-m_{3}{}^{6}-4\ m_{2}{}^{2}\ m_{3}{}^{4}\ \left(1+Log\left[\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\right]\right)\right.\\ \left.+4\ m_{2}{}^{4}\ m_{3}{}^{2}\ \left(1+Log\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right)\right)+4m_{2}{}^{4}\ m_{3}{}^{2}\ \left(1+Log\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right)\right)
                                                                                                            m_{1}{}^{2} \; \left( 3 \; m_{2}{}^{4} \; m_{3}{}^{8} \; \left( 1 + 2 \; Log \left[ \, \frac{m_{1}{^{2}}}{m_{2}{}^{2}} \, \right] \, \right) \; - \; 3 \; m_{2}{}^{8} \; m_{3}{}^{4} \; \left( 1 + 2 \; Log \left[ \, \frac{m_{1}{^{2}}}{m_{3}{}^{2}} \, \right] \, \right) \, \right) \; \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{4}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{4}} \; \frac{1}{m_{2}{}^{2} - m_{3}{}^{2}} \; \frac{1}{m_{3}{}^{2}} \; \frac{1}{m_{3}{}^{2} - m_{3}{}^{2}} \; \frac{1}{m_{3}{}^{2}} \; \frac{1}{m_{3}{}^{2} - m_{3}{}^{2}} \; \frac{1}{m_{3}{}^{2}} \; \frac{1}{m_{3}{}^{2} - m_{3}{}^{2}} \; \frac{1}{m_{3}{}^{2}} \; \frac{1}{m_{3}{}^{2} - m_{3}{}^{2}} \; \frac{1}{m_{3}{}^{2}} \; 
\mathsf{LF}_{1,1,1,1,-1}[\,\mathsf{m}_1\,,\,\mathsf{m}_2\,,\,\mathsf{m}_3\,,\,\mathsf{m}_4\,]\,\to\,\mathsf{m}_1^{\,4}\,\,\frac{1}{\mathsf{m}_1^{\,2}-\mathsf{m}_2^{\,2}}\,\,\frac{1}{\mathsf{m}_1^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_1^{\,2}-\mathsf{m}_4^{\,2}}\,+\,\mathsf{m}_2^{\,4}\,\,\left(1\,+\,\mathsf{Log}\!\left[\,\frac{\mathsf{m}_1^{\,2}}{\mathsf{m}_2^{\,2}}\,\,\right]\,\right)\,\,\frac{1}{-\mathsf{m}_1^{\,2}+\mathsf{m}_2^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_4^{\,2}}\,+\,\mathsf{m}_2^{\,2}\,\left(1\,+\,\mathsf{Log}\!\left[\,\frac{\mathsf{m}_1^{\,2}}{\mathsf{m}_2^{\,2}}\,\,\right]\,\right)\,\,\frac{1}{-\mathsf{m}_1^{\,2}+\mathsf{m}_2^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_4^{\,2}}\,+\,\mathsf{m}_2^{\,2}\,\left(1\,+\,\mathsf{Log}\!\left[\,\frac{\mathsf{m}_1^{\,2}}{\mathsf{m}_2^{\,2}}\,\,\right]\,\right)\,\,\frac{1}{-\mathsf{m}_1^{\,2}+\mathsf{m}_2^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_4^{\,2}}\,+\,\mathsf{m}_2^{\,2}\,\left(1\,+\,\mathsf{Log}\!\left[\,\frac{\mathsf{m}_1^{\,2}}{\mathsf{m}_2^{\,2}}\,\,\right]\,\right)\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_4^{\,2}}\,+\,\mathsf{m}_2^{\,2}\,\left(1\,+\,\mathsf{Log}\!\left[\,\frac{\mathsf{m}_1^{\,2}}{\mathsf{m}_2^{\,2}}\,\,\right]\,\right)\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_4^{\,2}}\,+\,\mathsf{m}_2^{\,2}\,\left(1\,+\,\mathsf{Log}\!\left[\,\frac{\mathsf{m}_1^{\,2}}{\mathsf{m}_2^{\,2}}\,\,\right]\,\right)\,\,\frac{1}{\mathsf{m}_1^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}}\,\frac{1}{\mathsf{m}_2^{\,2}-\mathsf{m}_3^{\,2}-\mathsf{m}_3^{\,2}-\mathsf{m}
                                               m_3^4 \left(1 + \text{Log}\left[\frac{m_1^2}{m_3^2}\right]\right) \; \frac{1}{-m_1^2 + m_3^2} \; \frac{1}{-m_2^2 + m_3^2} \; \frac{1}{m_3^2 - m_4^2} \; + \; m_4^4 \; \left(1 + \text{Log}\left[\frac{m_1^2}{m_4^2}\right]\right) \; \frac{1}{-m_1^2 + m_4^2} \; \frac{1}{-m_2^2 + m_4^2} \; \frac{1}{-m_3^2 + m_4^2} \; 
\mathsf{LF}_{1,1,1,1,0}\left[\,\mathsf{m}_{1}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{3}\,,\,\mathsf{m}_{4}\,\right] \,\rightarrow\, \mathsf{m}_{1}^{\,2}\,\,\frac{1}{\mathsf{m}_{1}^{\,2}-\mathsf{m}_{2}^{\,2}}\,\,\frac{1}{\mathsf{m}_{1}^{\,2}-\mathsf{m}_{3}^{\,2}}\,\,\frac{1}{\mathsf{m}_{1}^{\,2}-\mathsf{m}_{4}^{\,2}} \,+\, \mathsf{m}_{2}^{\,2}\,\,\left(\,1\,+\,\mathsf{Log}\left[\,\frac{\mathsf{m}_{1}^{\,2}}{\mathsf{m}_{2}^{\,2}}\,\,\right]\,\right) \,\,\frac{1}{-\mathsf{m}_{1}^{\,2}+\mathsf{m}_{2}^{\,2}}\,\,\frac{1}{\mathsf{m}_{2}^{\,2}-\mathsf{m}_{4}^{\,2}} \,+\, \mathsf{m}_{2}^{\,2}\,\,\left(\,1\,+\,\mathsf{Log}\left[\,\frac{\mathsf{m}_{1}^{\,2}}{\mathsf{m}_{2}^{\,2}}\,\,\right]\,\right) \,\,\frac{1}{-\mathsf{m}_{1}^{\,2}+\mathsf{m}_{2}^{\,2}}\,\,\frac{1}{\mathsf{m}_{2}^{\,2}-\mathsf{m}_{4}^{\,2}} \,+\, \mathsf{m}_{2}^{\,2}\,\,\mathsf{m}_{3}^{\,2}\,\,\mathsf{m}_{3}^{\,2}\,\,\mathsf{m}_{3}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{3}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{3}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{3}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,\mathsf{m}_{4}^{\,2}\,\,
                                               m_{3}{}^{2} \ \left( 1 + \text{Log} \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \, \right) \ \frac{1}{-m_{1}{}^{2} + m_{3}{}^{2}} \ \frac{1}{-m_{2}{}^{2} + m_{3}{}^{2}} \ \frac{1}{m_{3}{}^{2} - m_{4}{}^{2}} \ + \ m_{4}{}^{2} \ \left( 1 + \ \text{Log} \left[ \, \frac{m_{1}{}^{2}}{m_{4}{}^{2}} \, \right] \, \right) \ \frac{1}{-m_{1}{}^{2} + m_{4}{}^{2}} \ \frac{1}{-m_{2}{}^{2} + m_{4}{}^{2}} \ \frac{1}{-m_{3}{}^{2} + m_{4}{}^{2}} \ \frac{1
\mathsf{LF}_{2,1,1,1,-2}[\,\mathsf{m}_1\,,\,\mathsf{m}_2\,,\,\mathsf{m}_3\,,\,\mathsf{m}_4\,]\,\to 2\;\mathsf{m}_1^{\,4}\;\tfrac{1}{\,\mathsf{m}_1^{\,2}-\,\mathsf{m}_2^{\,2}}\;\tfrac{1}{\,\mathsf{m}_1^{\,2}-\,\mathsf{m}_3^{\,2}}\;\tfrac{1}{\,\mathsf{m}_1^{\,2}-\,\mathsf{m}_4^{\,2}}
                                                  m_{1}{}^{6} \left( 3 \; m_{1}{}^{4} \; + \; m_{3}{}^{2} \; m_{4}{}^{2} \; + \; m_{2}{}^{2} \; \left( m_{3}{}^{2} \; + \; m_{4}{}^{2} \right) \; - \; 2 \; m_{1}{}^{2} \; \left( m_{2}{}^{2} \; + \; m_{3}{}^{2} \; + \; m_{4}{}^{2} \right) \right) \; \\ \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{4}{}^{2} \right)^{2}} \; + \; \frac{1}{\left( m_{1}{}^{2} - m_{4}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{4}{}^{2} \right)^{2}} \; + \; \frac{1}{\left( m_{1}{}^{2} - m_{4}{
                                               {m_2}^6 \ \left( 1 + \text{Log} \left[ \, \frac{{m_1}^2}{{m_2}^2} \, \right] \, \right) \ \frac{1}{\left( {m_1}^2 - {m_2}^2 \right)^2} \ \frac{1}{{m_2}^2 - {m_3}^2} \ \frac{1}{{m_2}^2 - {m_4}^2} \ +
                                                  m_{3}{}^{6} \ \left( 1 + \text{Log} \left[ \, \frac{m_{1}{}^{2}}{m_{3}{}^{2}} \, \right] \right) \ \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{2}} \ \frac{1}{-m_{2}{}^{2} + m_{3}{}^{2}} \ \frac{1}{m_{3}{}^{2} - m_{4}{}^{2}} \ + \\ m_{4}{}^{6} \ \left( 1 + \text{Log} \left[ \, \frac{m_{1}{}^{2}}{m_{4}{}^{2}} \, \right] \, \right) \ \frac{1}{\left( m_{1}{}^{2} - m_{4}{}^{2} \right)^{2}} \ \frac{1}{-m_{2}{}^{2} + m_{4}{}^{2}} \ \frac{1}{-m_{3}{}^{2} + m_{4
\mathsf{LF}_{2,1,1,1,-1}[\,\mathsf{m}_1\,,\,\,\mathsf{m}_2\,,\,\,\mathsf{m}_3\,,\,\,\mathsf{m}_4\,]\,\,\to\,\,\mathsf{m}_1^{\,\,2}\,\,\frac{1}{\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_2^{\,\,2}}\,\,\frac{1}{\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_3^{\,\,2}}\,\,\frac{1}{\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_4^{\,\,2}}\,\,-\,\,\mathsf{m}_1^{\,\,2}\,\,\frac{1}{\,\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_3^{\,\,2}}\,\,\frac{1}{\,\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_4^{\,\,2}}\,\,-\,\,\mathsf{m}_1^{\,\,2}\,\,\frac{1}{\,\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_3^{\,\,2}}\,\,\frac{1}{\,\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_4^{\,\,2}}\,\,-\,\,\mathsf{m}_1^{\,\,2}\,\,\frac{1}{\,\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_3^{\,\,2}}\,\,\frac{1}{\,\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_3^{\,\,2}}\,\,\frac{1}{\,\,\mathsf{m}_1^{\,\,2}\,-\mathsf{m}_3^{\,\,2}}\,\,-\,\,\mathsf{m}_1^{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{1}{\,\,2}\,\,\frac{
                                                  m_{1}^{\ 4} \ \left( \ 3 \ m_{1}^{\ 4} \ + \ m_{3}^{\ 2} \ m_{4}^{\ 2} \ + \ m_{2}^{\ 2} \ \left( \ m_{3}^{\ 2} \ + \ m_{4}^{\ 2} \right) \ - \ 2 \ m_{1}^{\ 2} \ \left( \ m_{2}^{\ 2} \ + \ m_{3}^{\ 2} \ + \ m_{4}^{\ 2} \right) \right) \ \frac{1}{\left( m_{1}^{\ 2} - m_{2}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{3}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ + \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)^{\ 2}} \ \frac{1}{\left( m_{1}^{\ 2} - m_{4}^{\ 2} \right)} \ \frac{1}{\left( 
                                                  {m_2}^4 \ \left( 1 + \text{Log} \left[ \, \frac{{m_1}^2}{{m_2}^2} \, \right] \right) \ \frac{1}{\left( {m_1}^2 - {m_2}^2 \right)^2} \ \frac{1}{{m_2}^2 - {m_3}^2} \ \frac{1}{{m_2}^2 - {m_4}^2} \ +
                                                  m_{3}^{4} \ \left(1 + \text{Log}\left[\frac{m_{1}^{2}}{m_{3}^{2}}\right]\right) \ \frac{1}{\left(m_{1}^{2} - m_{3}^{2}\right)^{2}} \ \frac{1}{-m_{2}^{2} + m_{3}^{2}} \ \frac{1}{m_{3}^{2} - m_{4}^{2}} + m_{4}^{4} \ \left(1 + \text{Log}\left[\frac{m_{1}^{2}}{m_{4}^{2}}\right]\right) \ \frac{1}{\left(m_{1}^{2} - m_{4}^{2}\right)^{2}} \ \frac{1}{-m_{2}^{2} + m_{4}^{2}} \ \frac{1}{-m_{3}^{2} + m_{4}^{2}}} \ \frac{1}{-m_{3}^{2} + m_{4}^{2}} \ \frac{1}{-m_{3}^{2} + m_{4}^{2}
LF_{2,1,1,1,0}[m_1, m_2, m_3, m_4] \rightarrow
                     -\,m_{1}^{\,2}\,\left(3\,m_{1}^{\,4}+m_{3}^{\,2}\,m_{4}^{\,2}+m_{2}^{\,2}\,\left(m_{3}^{\,2}+m_{4}^{\,2}\right)\,-\,2\,m_{1}^{\,2}\,\left(m_{2}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\right)\,\,\frac{1}{\left(m_{1}^{\,2}-m_{2}^{\,2}\right)^{\,2}}\,\,\frac{1}{\left(m_{1}^{\,2}-m_{3}^{\,2}\right)^{\,2}}\,\,\frac{1}{\left(m_{1}^{\,2}-m_{4}^{\,2}\right)^{\,2}}\,+\,3\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{3}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}\right)\,\left(m_{1}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}^{\,2}+m_{4}
                                               m_2^2 \left(1 + Log\left[\frac{m_1^2}{m_2^2}\right]\right) \frac{1}{\left(m_1^2 - m_2^2\right)^2} \frac{1}{m_2^2 - m_3^2} \frac{1}{m_2^2 - m_4^2} + \\
                                               m_{3}^{2} \ \left( 1 + Log \left[ \, \frac{m_{1}^{\, 2}}{m_{3}^{\, 2}} \, \right] \, \right) \ \frac{1}{\left( m_{1}^{\, 2} - m_{3}^{\, 2} \right)^{\, 2}} \ \frac{1}{-m_{2}^{\, 2} + m_{3}^{\, 2}} \ \frac{1}{m_{3}^{\, 2} - m_{4}^{\, 2}} \ + \\ m_{4}^{\, 2} \ \left( 1 + Log \left[ \, \frac{m_{1}^{\, 2}}{m_{4}^{\, 2}} \, \right] \, \right) \ \frac{1}{\left( m_{1}^{\, 2} - m_{4}^{\, 2} \right)^{\, 2}} \ \frac{1}{-m_{2}^{\, 2} + m_{4}^{\, 2}} \ \frac{1}{-m_{3}^{\, 2} + m_{4}^
\mathsf{LF}_{2,2,1,1,-1}[\,\mathsf{m}_1\,,\,\,\mathsf{m}_2\,,\,\,\mathsf{m}_3\,,\,\,\mathsf{m}_4\,]\,\to\,\mathsf{m}_1^{\,2}\,\,\frac{1}{\left(\mathsf{m}_1^{\,2}-\mathsf{m}_2^{\,2}\right)^2}\,\,\frac{1}{\mathsf{m}_1^{\,2}-\mathsf{m}_3^{\,2}}\,\,\frac{1}{\mathsf{m}_1^{\,2}-\mathsf{m}_4^{\,2}}
                                                  m_{1}{}^{4} \; \left(4 \; m_{1}{}^{4} \; + \; 2 \; m_{3}{}^{2} \; m_{4}{}^{2} \; + \; m_{2}{}^{2} \; \left(m_{3}{}^{2} \; + \; m_{4}{}^{2}\right) \; - \; m_{1}{}^{2} \; \left(2 \; m_{2}{}^{2} \; + \; 3 \; \left(m_{3}{}^{2} \; + \; m_{4}{}^{2}\right)\right)\right) \; \\ \frac{1}{\left(m_{1}{}^{2} - m_{2}{}^{2}\right)^{3}} \; \frac{1}{\left(m_{1}{}^{2} - m_{3}{}^{2}\right)^{2}} \; \frac{1}{\left(m_{1}{}^{2} - m_{4}{}^{2}\right)^{2}} \; - \; \frac{1}{\left(m_{1}{}^{2} - m_{4}{}^{2}\right)^{2}} \; \frac{1}{\left(m_{1}{}^{2} - m_{2}{}^{2}\right)^{3}} \; \frac{1}{\left(m_{1}{}^{2} - m_{3}{}^{2}\right)^{2}} \; \frac{1}{\left(m_{1}{}^{2} - m_{4}{}^{2}\right)^{2}} \; - \; \frac{1}{\left(m_{1}{}^{2} - m_{4}{}^{2}\right)^{2}} \; \frac{1}{\left(m_{1}{}^{2} - m_{4}{}^{2}\right)^{2}} \; \frac{1}{\left(m_{1}{}^{2} - m_{4}{}^{2}\right)} \; \frac{
                                               m_{2}{}^{4} \left(4 \; m_{2}{}^{4} + 2 \; m_{3}{}^{2} \; m_{4}{}^{2} - 3 \; m_{2}{}^{2} \; \left(m_{3}{}^{2} + m_{4}{}^{2}\right) + m_{1}{}^{2} \; \left(-2 \; m_{2}{}^{2} + m_{3}{}^{2} + m_{4}{}^{2}\right)\right) \; \left(1 + Log\left[\frac{m_{1}{2}}{m_{2}{}^{2}}\right]\right)
                                                                                   \frac{1}{\left(-m_{1}^{2}+m_{2}^{2}\right)^{3}} \;\; \frac{1}{\left(m_{2}^{2}-m_{3}^{2}\right)^{2}} \;\; \frac{1}{\left(m_{2}^{2}-m_{4}^{2}\right)^{2}} \;\; + \; m_{2}^{2} \;\; \left(1 + 2 \; Log\left[\,\frac{m_{1}^{2}}{m_{2}^{2}}\,\,\right]\,\right) \;\; \frac{1}{\left(m_{1}^{2}-m_{2}^{2}\right)^{2}} \;\; \frac{1}{m_{2}^{2}-m_{3}^{2}} \;\; \frac{1}{m_{2}^{2}-m_{4}^{2}} \;\; + \;\; m_{2}^{2} \;\; \left(1 + 2 \; Log\left[\,\frac{m_{1}^{2}}{m_{2}^{2}}\,\,\right]\,\right) \;\; \frac{1}{\left(m_{1}^{2}-m_{2}^{2}\right)^{2}} \;\; \frac{1}{m_{2}^{2}-m_{3}^{2}} \;\; \frac{1}{m_{2}^{2}-m_{4}^{2}} \;\; + \;\; m_{2}^{2} \;\; \left(1 + 2 \; Log\left[\,\frac{m_{1}^{2}}{m_{2}^{2}}\,\,\right]\,\right) \;\; \frac{1}{\left(m_{1}^{2}-m_{2}^{2}\right)^{2}} \;\; \frac{1}{m_{2}^{2}-m_{3}^{2}} \;\; \frac{1}{m_{2}^{2}-m_{4}^{2}} \;\; + \;\; m_{2}^{2} \;\; \left(1 + 2 \; Log\left[\,\frac{m_{1}^{2}}{m_{2}^{2}}\,\,\right]\,\right) \;\; \frac{1}{\left(m_{1}^{2}-m_{2}^{2}\right)^{2}} \;\; \frac{1}{m_{2}^{2}-m_{3}^{2}} \;\; \frac{1}{m_{2}^{2}-m_{4}^{2}} \;\; + \;\; m_{2}^{2} \;\; \left(1 + 2 \; Log\left[\,\frac{m_{1}^{2}}{m_{2}^{2}}\,\,\right]\,\right) \;\; \frac{1}{\left(m_{1}^{2}-m_{2}^{2}\right)^{2}} \;\; \frac{1}{m_{2}^{2}-m_{3}^{2}} \;\; \frac{1}{m_{2}^{2}-m_{4}^{2}} \;\; + \;\; m_{2}^{2} \;\; \frac{1}{m_{2}^{2}-m_{4}^{2}} \;\; \frac{1}{m_{2}^{2}-m_{3}^{2}} \;\; \frac{1}{m_{2}^{2}-m_{4}^{2}} \;
                                               m_{3}{}^{4} \ \left(1 + \text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\,\right]\,\right) \ \frac{1}{\left(m_{1}{}^{2} - m_{3}{}^{2}\right)^{2}} \ \frac{1}{\left(m_{2}{}^{2} - m_{3}{}^{2}\right)^{2}} \ \frac{1}{m_{3}{}^{2} - m_{4}{}^{2}} \ + \ m_{4}{}^{4} \ \left(1 + \text{Log}\left[\,\frac{m_{1}{}^{2}}{m_{4}{}^{2}}\,\right]\,\right) \ \frac{1}{\left(m_{1}{}^{2} - m_{4}{}^{2}\right)^{2}} \ \frac{1}{\left(m_{2}{}^{2} - m_{4}{}^{2}\right)^{2}} \ \frac{1}{-m_{3}{}^{2} + m_{4}{}^{2}} \ \frac{1}{m_{3}{}^{2} - m_{4}{}^{2}} \ \frac{1}{m_
\mathsf{LF}_{3,1,1,1,-1}[\,\mathsf{m}_1\,,\,\,\mathsf{m}_2\,,\,\,\mathsf{m}_3\,,\,\,\mathsf{m}_4\,] \,\,\to\,\, -\,\, \frac{1}{2}\,\,\, \frac{1}{{\,\mathsf{m}_1}^2\,-{\,\mathsf{m}_2}^2}\,\,\, \frac{1}{{\,\mathsf{m}_1}^2\,-{\,\mathsf{m}_3}^2}\,\,\, \frac{1}{{\,\mathsf{m}_1}^2\,-{\,\mathsf{m}_4}^2}\,\, -\,\, \frac{1}{{\,\mathsf{m}_1}^2\,-{\,\mathsf{m}_3}^2}\,\,\, \frac{1}{{\,\mathsf{m}_1}^2\,-{\,\mathsf{m}_4}^2}\,\, -\,\, \frac{1}{{\,\mathsf{m}_1}^2\,-{\,\mathsf{m}_3}^2}\,\,\, \frac{1}{{\,\mathsf{m}_1}^2\,-{\,\mathsf{m}_4}^2}\,\, -\,\, \frac{1}{{\,\mathsf{m}_1}^2\,-{\,\mathsf{m}_4}^2}\,\, -\,\, \frac{1}{{\,\mathsf{m}_1}^2\,-{\,\mathsf{m}_3}^2}\,\, -\,\, \frac{1}{{\,\mathsf{m}_1}
                                                  m_{1}{}^{2} \left( 3 \; m_{1}{}^{4} + m_{3}{}^{2} \; m_{4}{}^{2} + m_{2}{}^{2} \; \left( m_{3}{}^{2} + m_{4}{}^{2} \right) \; - \; 2 \; m_{1}{}^{2} \; \left( m_{2}{}^{2} + m_{3}{}^{2} + m_{4}{}^{2} \right) \right) \; \\ \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{4}{}^{2} \right)^{2}} \; + \; \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{4}{}^{2} \right)^{2}} \; + \; \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{4}{}^{2} \right)^{2}} \; + \; \frac{1}{\left( m_{1}{}^{2} - m_{2}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{3}{}^{2} \right)^{2}} \; \frac{1}{\left( m_{1}{}^{2} - m_{4}{}^{2} \right)^{2}} \; 
                                           m_2^4 \left(1 + Log\left[\frac{m_1^2}{m_2^2}\right]\right) \ \frac{1}{\left(-m_1^2 + m_2^2\right)^3} \ \frac{1}{m_2^2 - m_3^2} \ \frac{1}{m_2^2 - m_4^2} \ + \ m_3^4 \ \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{\left(-m_1^2 + m_3^2\right)^3} \ \frac{1}{-m_2^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_2^2 + m_3^2} \ \frac{1}{m_2^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_2^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_2^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_4^2} \ + \ m_3^4 \left(1 + Log\left[\frac{m_1^2}{m_3^2}\right]\right) \ \frac{1}{m_3^2 + m_3^2} \ \frac{1}{m_3^2 - m_3^2} \ 
                                               {m_4}^4 \ \left( 1 + Log \left[ \, \frac{{m_1}^2}{{m_4}^2} \, \right] \, \right) \ \frac{1}{{\left( - {m_1}^2 + {m_4}^2 \, \right)}^3} \ \frac{1}{{ - {m_2}^2 + {m_4}^2}} \ \frac{1}{{ - {m_3}^2 + {m_4}^2}}
\mathsf{LF}_{1,1,1,1,1,1,-1}[\,\mathsf{m}_1,\,\mathsf{m}_2,\,\mathsf{m}_3,\,\mathsf{m}_4,\,\mathsf{m}_5\,] \,\to\, \mathsf{m}_1^{\,4}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_2^{\,2}}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_3^{\,2}}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_4^{\,2}}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_5^{\,2}}\,\, +\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_3^{\,2}}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_4^{\,2}}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_5^{\,2}}\,\, +\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_3^{\,2}}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_4^{\,2}}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_5^{\,2}}\, +\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_3^{\,2}}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_4^{\,2}}\,\, \frac{1}{\,\mathsf{m}_1^{\,2}-\mathsf{m}_5^{\,2}}\, +\,\, \frac{1}{\,
                                                  m_{2}{}^{4} \ \left(1 + \text{Log}\left[\frac{m_{1}{}^{2}}{m_{2}{}^{2}}\right]\right) \ \frac{1}{-m_{1}{}^{2} + m_{2}{}^{2}} \ \frac{1}{m_{2}{}^{2} - m_{3}{}^{2}} \ \frac{1}{m_{2}{}^{2} - m_{5}{}^{2}} + m_{3}{}^{4} \ \left(1 + \text{Log}\left[\frac{m_{1}{}^{2}}{m_{3}{}^{2}}\right]\right) \ \frac{1}{-m_{1}{}^{2} + m_{3}{}^{2}} \ \frac{1}{-m_{2}{}^{2} + m_{3}{}^{2}} \ \frac{1}{m_{3}{}^{2} - m_{4}{}^{2}} \ \frac{1}{m_{3}{}^{2} - m_{5}{}^{2}} + m_{3}{}^{2} \ \frac{1}{m_{2}{}^{2} - m_{5}{}^{2}} + m_{3}{}^{2} \ \frac{1}{m_{3}{}^{2} - m_{5}{}^{2}} \ \frac{1}{m_{3}{}^{2} - m_{5}{}^{2}} + m_{3}{}^{2} \ \frac{1}{m_{3}{}^{2} - m_{5}{}^{2}} + m_{5}{}^{2} \ \frac{1}{m_{3}{}^{2} - m_{5}{}^{2}} + m_{5}{}^{2} \ \frac{1}{m_{5}{}^{2} - m_{5}{}^{2} - m_{5}{}^{2}} + m_{5}{}^{2} \ \frac{1}{m_{5}{}^{2} - m_{5}{}^{2}} +
                                                  m_{4}^{4} \ \left(1 + \text{Log}\left[\frac{m_{1}^{2}}{m_{4}^{2}}\right]\right) \ \frac{1}{-m_{1}^{2} + m_{4}^{2}} \ \frac{1}{-m_{2}^{2} + m_{4}^{2}} \ \frac{1}{-m_{3}^{2} + m_{4}^{2}} \ \frac{1}{m_{4}^{2} - m_{5}^{2}} \ + \ m_{5}^{4} \ \left(1 + \text{Log}\left[\frac{m_{1}^{2}}{m_{5}^{2}}\right]\right) \ \frac{1}{-m_{1}^{2} + m_{5}^{2}} \ \frac{1}{-m_{2}^{2} + m_{5}^{2}} \ \frac{1}{-m_{3}^{2} + m_{5}^{2}} \ \frac{1}{-m_{4}^{2} + m_{5}^{2}} \ \frac{1}{-m
\mathsf{LF}_{1,1,1,1,1,0} \left[ \, \mathsf{m}_1 \,,\, \mathsf{m}_2 \,,\, \mathsf{m}_3 \,,\, \mathsf{m}_4 \,,\, \mathsf{m}_5 \, \right] \, \rightarrow \, \mathsf{m}_1^{\, 2} \, \, \frac{1}{\mathsf{m}_1^{\, 2} - \mathsf{m}_2^{\, 2}} \, \, \frac{1}{\mathsf{m}_1^{\, 2} - \mathsf{m}_3^{\, 2}} \, \, \frac{1}{\mathsf{m}_1^{\, 2} - \mathsf{m}_4^{\, 2}} \, \, \frac{1}{\mathsf{m}_1^{\, 2} - \mathsf{m}_5^{\, 2}} \, + \, \frac{1}{\mathsf{m}_1^{\, 2} - \, \frac{1}{\mathsf{m}_1^{\,
                                               m_{2}^{2} \ \left( 1 + \text{Log} \left[ \, \frac{m_{1}^{\, 2}}{m_{2}^{\, 2}} \, \right] \, \right) \ \frac{1}{-m_{1}^{\, 2} + m_{2}^{\, 2}} \ \frac{1}{m_{2}^{\, 2} - m_{3}^{\, 2}} \ \frac{1}{m_{2}^{\, 2} - m_{5}^{\, 2}} \ + \\ m_{3}^{\, 2} \ \left( 1 + \text{Log} \left[ \, \frac{m_{1}^{\, 2}}{m_{3}^{\, 2}} \, \right] \, \right) \ \frac{1}{-m_{1}^{\, 2} + m_{3}^{\, 2}} \ \frac{1}{-m_{2}^{\, 2} + m_{3}^{\, 2}} \ \frac{1}{m_{3}^{\, 2} - m_{4}^{\, 2}} \ \frac{1}{m_{3}^{\, 2} - m_{5}^{\, 2}} \ + \\ m_{3}^{\, 2} \ \left( 1 + \text{Log} \left[ \, \frac{m_{1}^{\, 2}}{m_{3}^{\, 2}} \, \right] \, \right) \ \frac{1}{-m_{1}^{\, 2} + m_{3}^{\, 2}} \ \frac{1}{-m_{2}^{\, 2} + m_{3}^{\, 2}} \ \frac{1}{m_{3}^{\, 2} - m_{4}^{\, 2}} \ \frac{1}{m_{3}^{\, 2} - m_{5}^{\, 2}} \ + \\ m_{3}^{\, 2} \ \left( 1 + \text{Log} \left[ \, \frac{m_{1}^{\, 2}}{m_{3}^{\, 2}} \, \right] \, \right) \ \frac{1}{-m_{1}^{\, 2} + m_{3}^{\, 2}} \ \frac{1}{-m_{2}^{\, 2} + m_{3}^{\, 2}} \ \frac{1}{m_{3}^{\, 2} - m_{4}^{\, 2}} \ \frac{1}{m_{3}^{\, 2} - m_{5}^{\, 2}} \ + \\ m_{3}^{\, 2} \ \left( 1 + \text{Log} \left[ \, \frac{m_{1}^{\, 2}}{m_{3}^{\, 2}} \, \right] \, \right) \ \frac{1}{-m_{1}^{\, 2} + m_{3}^{\, 2}} \ \frac{1}{-m_{2}^{\, 2} + m_{3}^{\, 2}} \ \frac{1}{m_{3}^{\, 2} - m_{4}^{\, 2}} \ \frac{1}{m_{3}^{\, 2} - m_{5}^{\, 2}} \ \frac{1}{m_{5}^{\, 2} - m_{5}^{\, 2}} \ \frac{1}{m_{5}^{\, 2} - m_{5}^{\, 2}} \ \frac{1}{m_{5}^{\, 2} - m_{5}
                                                  m_4{}^2 \ \left(1 + \text{Log}\left[\frac{m_1{}^2}{m_4{}^2}\right]\right) \ \frac{1}{-m_1{}^2 + m_4{}^2} \ \frac{1}{-m_2{}^2 + m_4{}^2} \ \frac{1}{-m_3{}^2 + m_4{}^2} \ \frac{1}{m_4{}^2 - m_5{}^2} \ + \ m_5{}^2 \ \left(1 + \text{Log}\left[\frac{m_1{}^2}{m_5{}^2}\right]\right) \ \frac{1}{-m_1{}^2 + m_5{}^2} \ \frac{1}{-m_2{}^2 + m_5{}^2} \ \frac{1}{-m_2{}^2 + m_5{}^2} \ \frac{1}{-m_4{}^2 + m_5{}^2} \ \frac{1}{-m_2{}^2 + m_5{}^2}
\mathsf{LF}_{1,1,1,1,1,1,0}[\,\mathsf{m}_1,\,\mathsf{m}_2,\,\mathsf{m}_3,\,\mathsf{m}_4,\,\mathsf{m}_5,\,\mathsf{m}_6\,] \,\to\,
          m_1^2 \; \frac{1}{m_1^2 - m_2^2} \; \frac{1}{m_1^2 - m_3^2} \; \frac{1}{m_1^2 - m_4^2} \; \frac{1}{m_1^2 - m_5^2} \; \frac{1}{m_1^2 - m_6^2} \; + \; m_2^2 \; \left(1 + \text{Log}\left[\frac{m_1^2}{m_2^2}\right]\right) \; \frac{1}{-m_1^2 + m_2^2} \; \frac{1}{m_2^2 - m_3^2} \; \frac{1}{m_2^2 - m_4^2} \; \frac{1}{m_2^2 - m_5^2} \; \frac{1}{m_2^2 - m_6^2} \; + \; m_2^2 \left(1 + \frac{1}{m_2^2 - m_2^2}\right) \; \frac{1}{m_2^2 - m_3^2} \; \frac{1}{m_2^2 
                                               {m_3}^2 \ \left( 1 + Log \left[ \, \frac{m_1^2}{m_3^2} \, \, \right] \right) \ \frac{1}{-{m_1}^2 + {m_3}^2} \ \frac{1}{-{m_2}^2 + {m_3}^2} \ \frac{1}{{m_3}^2 - {m_4}^2} \ \frac{1}{{m_3}^2 - {m_5}^2} \ \frac{1}{{m_3}^2 - {m_6}^2} \ + \frac{1}{m_3^2 - {m_6}^2} \ + \frac{1}{m_3^2
                                               m_4{}^2\ \left(1+\text{Log}\!\left[\frac{m_1{}^2}{m_4{}^2}\right]\right)\ \frac{1}{-m_1{}^2+m_4{}^2}\ \frac{1}{-m_2{}^2+m_4{}^2}\ \frac{1}{-m_3{}^2+m_4{}^2}\ \frac{1}{m_4{}^2-m_5{}^2}\ \frac{1}{m_4{}^2-m_6{}^2}\ +
                                               {m_{5}}^{2} \, \left(1 + Log \left[\, \frac{{m_{1}}^{2}}{{m_{5}}^{2}} \, \right] \right) \, \, \frac{1}{{-m_{1}}^{2} + {m_{5}}^{2}} \, \, \frac{1}{{-m_{2}}^{2} + {m_{5}}^{2}} \, \, \frac{1}{{-m_{3}}^{2} + {m_{5}}^{2}} \, \, \frac{1}{{-m_{4}}^{2} + {m_{5}}^{2}} \, \, \frac{1}{{m_{5}}^{2} - {m_{6}}^{2}} \, + \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, \frac{1}{{m_{5}}^{2} - {m_{6}}^{2}} \, + \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, \frac{1}{{m_{5}}^{2} - {m_{6}}^{2}} \, + \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, + \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, + \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, + \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, + \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, + \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, \frac{1}{{m_{5}}^{2} - {m_{5}}^{2}} \, + \frac{1}{{m_
                                                  {m_6}^2 \ \left(1 + \text{Log} \left[\, \frac{{m_1}^2}{{m_6}^2} \, \right] \right) \ \frac{1}{{-{m_1}^2} + {m_6}^2} \ \frac{1}{{-{m_2}^2} + {m_6}^2} \ \frac{1}{{-{m_3}^2} + {m_6}^2} \ \frac{1}{{-{m_4}^2} + {m_6}^2} \ \frac{1}{{-{m_5}^2} + {m_6}^2}
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