$I_4^{\{D=4-2\epsilon\}}(0,m_1^2,0,m_2^2;t,u;0,0,m_1^2,m_2^2)$

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$$I_4^{\{D=4-2\epsilon\}}(0,m_1^2,0,m_2^2;t,u;0,0,m_1^2,m_2^2) = \frac{1}{(t-m_1^2)(u-m_2^2)}\left[\frac{1}{\epsilon^2} - \frac{1}{\epsilon}\left[\ln\left(\frac{m_2^2-u}{m_2\,\mu}\right) + \ln\left(\frac{m_1^2-t}{m_1\,\mu}\right)\right]\right.$$
$$\left. - \frac{\pi^2}{2} - \ln^2\left(\frac{m_1}{m_2}\right) + 2\ln\left(\frac{m_2^2-u}{m_2\,\mu}\right)\ln\left(\frac{m_1^2-t}{m_1\,\mu}\right)\right]$$

For Li_2 etc, see the file on notation.

This integral has been given in Eq. (6.77) of ref [1].

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References

[1] R. Höpker, Hadroproduction and decay of squarks and gluinos, (in german), DESY Internal report DESY-T-96-02, (Relevant excerpt)