

$$I_2^{\{D=4-2\epsilon\}}(s; m^2, m^2)$$

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The result for this bubble integral is, Expression valid in the region $s < 0, m^2 > 0, \beta > 1, \beta^2 = 1 - \frac{4m^2}{s}$

$$\lambda_{\pm} = \frac{1}{2}(1 \pm \beta)$$

$$I_2^{\{4-2\epsilon\}}(s; m^2, m^2) = \left(\frac{\mu^2}{m^2}\right)^{\epsilon} \left[\frac{1}{\epsilon} + 2 - \beta \ln \left(\frac{-\lambda_+}{\lambda_-} \right) \right] + \mathcal{O}(\epsilon)$$

See the file on **notation**.

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