We are working in Minkowskian space-time, $p^2 = m^2$, in $d = 4 - 2\epsilon$ dimensions, and we also choose:

$$m^2 = 1.$$

We define:

$$M_{l,p'} = \left[\frac{(\pi e^{\gamma})^{\epsilon}}{i\pi^2}\right]^l \int \frac{d^d k_1 \dots d^d k_l}{D_1^{m_1} \dots D_p^{m_p}}$$
$$= \sum_k M_k(l, p, \dots) \epsilon^k,$$

and $p' = m_1 + \dots m_p$. For undotted lines and no numerators, p' = p. The tadpole master is in our convention, correspondingly:

$$\begin{split} M_{1,1} \; &= \; \text{T111m} \quad = \quad \frac{\left(\pi e^{\gamma}\right)^{\epsilon}}{i\pi^2} \; \left(4\pi\mu^2\right)^{\epsilon} \; \int \frac{d^dk}{k^2-m^2} \\ \\ &= \; m^2 \; e^{\gamma\epsilon} \; \frac{\Gamma(1+\epsilon)}{\epsilon(1-\epsilon)} \; \left(\frac{4\pi\mu^2}{m^2}\right)^{\epsilon} \\ \\ &\to \; m^2 \; e^{\gamma\epsilon} \; \frac{\Gamma(1+\epsilon)}{\epsilon(1-\epsilon)} \; \left(\frac{1}{m^2}\right)^{\epsilon} \to e^{\gamma\epsilon} \; \frac{\Gamma(1+\epsilon)}{\epsilon(1-\epsilon)} \\ \\ &= \; \frac{1}{\epsilon} + 1 + (1+\zeta_2/2)\epsilon + \dots \end{split}$$

02 Nov 2004: Typo in definition of $M_{l,\,p'}$ corrected

02 Nov 2004: Typo in last line with $M_{1,1}$ corrected