

$$\Delta r_{tb} = \frac{c}{\hbar^3} \frac{-3G_F m_W^2}{8\sqrt{2}\pi^2(m_Z^2 - m_W^2)} \times$$

$$\left[ m_t^2 + m_b^2 - \frac{2m_t^2 m_b^2}{m_t^2 - m_b^2} \ln(m_t^2/m_b^2) \right]$$