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Cool! I'am really happy

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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Lepton Universality in SM for K_{l2}

Standard Model

$$\Gamma(K_{l2}) = g_1^2 \frac{G_F^2}{8} f_K^2 m_K m_l^2 \left(1 - \frac{m_l^2}{m_K^2}\right)^2$$



In the ratio of $\Gamma(K_{e2})$ to $\Gamma(K_{\mu 2})$, hadronic form factors are cancelled

$$\rightarrow R_K^{SM} = \frac{\Gamma(K^+ \rightarrow e^+ \nu)}{\Gamma(K^+ \rightarrow \mu^+ \nu)} = \frac{m_e^2}{m_\mu^2} \left(\frac{m_K^2 - m_e^2}{m_K^2 - m_\mu^2} \right)^2 (1 + \delta_r)$$

helicity suppression radiative corrections

Strong helicity suppression of the electronic channel enhances sensitivity to effects beyond the SM

Radiative corrections are due to the internal Bremsstrahlung part of the radiative $K \rightarrow e \nu \gamma$ process

Highly precise SM prediction:

$$R_K^{SM} = (2.477 \pm 0.001) \times 10^{-5}; \quad \delta R_K / R_K = 0.04\%$$

[V. Cirigliano, I. Rosell, Phys. Rev. Lett. 99, 231802 (2007)]



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