$$R_{\tau,s} \equiv \frac{\Gamma(\tau \to h_s \nu)}{\Gamma(\tau \to l \bar{\nu} \nu)} \approx \Gamma_{\tau,s} \cdot EW \cdot$$

$\Gamma_{\tau,s}$ ↑ QCD — stuff

$$\Gamma_{\tau,s} \equiv 1 + \ldots - \frac{8 m_s^2}{M_\tau^2} \left(1 + 5.33 \cdot \frac{\alpha_s}{\pi}\right.$$

$$+ 46 \left(\frac{\alpha_s}{\pi}\right)^2 + \beta_3 \cdot \left(\frac{\alpha_s}{\pi}\right)^3 + \ldots$$

↑ / K.Ch., Kwiatkowski (93)
K. Maltman (98) /

Unlike $R(s)$, $R_{\tau,s}$ $/\sim m_s^2/$ is also contributed by real (const) part of $\Pi^{[2]}$

Using PMS for $K_3$, we get

$$\beta_3 \simeq 500$$

which results to $(\alpha_s/\pi \simeq 0.1)$
(at least)

$\pm 0.5$ uncertainty

in the theoretical prediction for

$R_{\tau,s}$