



Contribution ID: 0

Type: not specified

On the running strong coupling and b-quark mass in the SM: two-loop electroweak decoupling corrections

Thursday, 23 July 2015 16:50 (20 minutes)

Two-loop electroweak corrections to the decoupling relations between the running \overline{MS} parameters of the SM and their counterparts in the effective five-flavour QCDxQED theory are considered for the strong coupling constant $\alpha_s(\mu)$ and the bottom-quark mass $m_b(\mu)$. The decoupling procedure is outlined and the numerical impact of the obtained terms are discussed.

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Session Classification: CALC2015 Workshop