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Third order corrections to the semi-leptonic $b \rightarrow c$ and the muon decays

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In this talk we present our recent calculation of order α_s^3 corrections to the semi-leptonic $b \rightarrow c$ and the muon decays. The calculation has been performed in an expansion around the heavy-daughter limit $m_c \sim m_b$, but also shows decent convergence for $m_c = 0$ from which the contribution to the muon decay can be extracted.

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