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## **Power suppressed effects in $B\bar{b} \rightarrow X_s \gamma$ at $O(\alpha_s)$**

*Saturday, 24 July 2010 09:15 (13 minutes)*

We compute the  $O(\alpha_s)$  corrections to the Wilson coefficients of the dimension five operators emerging from the Operator Product Expansion of inclusive radiative B decays. We employ an off-shell matching procedure and discuss the impact of the resulting  $O(\alpha_s \Lambda_{\text{QCD}}^2/m_b^2)$  corrections on the extraction of  $m_b$  and  $\mu_{\pi^2}$  from the moments of the photon spectrum.

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