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

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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 μ_{π^2} from the moments of the photon spectrum.

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