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Nonfactorizable charm-loop effects in exclusive FCNC B-decays

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We revisit the calculation of nonfactorizable corrections induced by charm-quark loops in exclusive FCNC B -decays. We demonstrate that the calculation of the corresponding correlation function requires the knowledge of the full generic three-particle quark-antiquark-gluon distribution amplitude of the B -meson with non-aligned arguments, $\langle 0 | \bar{q}(x) G_{\mu\nu}(y) b(0) | B \rangle$. The dependence of this quantity on $(x-y)^2$ is essential for a proper account of large $(\Lambda_{QCD} m_b / m_c^2)^n$ terms in the amplitudes of exclusive FCNC B -decays.

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