

Strong couplings from Light-cone sum rules

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QCD Light-cone sum rules (LCSR) proved to be a reliable QCD based tool for the determination of form factors of heavy-to-light transitions like $B(D) \rightarrow \pi$. We revisit the LCSR for $B^* B \pi$ and $D^* D \pi$ strong couplings accessible via the same correlation function, employing the double dispersion relations. These sum rules are considerably improved by additional radiative corrections, updates of higher twist contributions and input parameters. We also probed various versions of double dispersion relations. The LCSRs were extended to strong couplings of heavy-light mesons containing a strange quark.

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