

Analyses of $B_s^* - B - K$ and $D_s^* - D - K$ vertices

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The strong coupling constants, $g_{B_s^*BK}$, $g_{D_s^*DK}$, where K_1 is pseudoscalar kaon meson, are calculated in the framework of three-point QCD sum rules. In particular, the correlation functions of the considered vertices when both $B(D)$ and K mesons are off-shell are evaluated. A comparison of the obtained result with the existing prediction on $g_{D_s^*DK}$ as the only coupling constant among the considered vertices, previously calculated in the literature, is also made.

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