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QCD Sum Rule Approach to the New Mesons and the g_{DsJDK} Coupling Constant

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We use diquark-antidiquark currents to investigate the masses and partial decay widths of the recently observed mesons $D^+ sJ(2317)$, $D^0 0(2308)$ and $X(3872)$, considered as four-quark states, in a QCD sum rule approach. In particular we investigate the coupling constant g_{DsJDK} . We found that the g_{DsJDK} obtained in this four-quark scenario is smaller than the coupling constant obtained when $D^+ sJ(2317)$ is considered as a conventional $c\bar{s}$ state.

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