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$B_c \rightarrow J/\psi$ and $B_s \rightarrow D_s^*$ Decays with Lattice QCD

Thursday, 29 July 2021 06:15 (15 minutes)

We present the results of HPQCD's recent calculation of the $B_c \rightarrow J/\psi$ semileptonic form factors and $R(J/\psi)$ for the first time from lattice QCD using the heavy-HISQ method. We also present results from lattice QCD, using the heavy-HISQ method, for the $B_s \rightarrow D_s^*$ semileptonic form factors and $R(D_s^*)$. We give a value for $|V_{cb}|$ computed using our results for the full kinematic range of $B_s \rightarrow D_s^*$ decay along with LHCb measurements. We also give a comparison between our results and experimental measurements of the differential shape of the decay rate and related parameters.

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