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Is there any New Physics?

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In the wake of the recent measurements of the decays $B \rightarrow J/\psi \pi(K)$ and $B \rightarrow J/\psi l\nu$ reported by the LHCb Collaboration we calculate $c \rightarrow l$ the form factors for the $B \rightarrow J/\psi$ and $B \rightarrow \eta$ transitions in full kinematical region within covariant confined quark model. Then we use the $c \rightarrow c$ calculated form factors to evaluate the partial decay widths of the above-mentioned semileptonic and nonleptonic decays of the B meson. c We find that the theoretical predictions on the ratios of R and R are in good agreement with the last LHCb-data. However, the prediction $K^+/\pi^+ \pi^+/\mu^+\nu$ for the R is found to be underestimated.

Primary author: ISSADYKOV, Aidos (JINR&INP)

Presenter: ISSADYKOV, Aidos (JINR&INP)

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