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Results of J/ψ weak decay searching at BESIII

Based on the 225 million J/ψ data set accumulated at the 3.097 GeV by the BESIII detector, we show searches for the extremely rare process of J/ψ weak decays. We find no obvious signal event for the processes of $J/\psi \rightarrow \bar{D}^0 \pi^0, \bar{D}^0 \eta, \bar{D}^0 \rho^0, D^- \pi^+$ and $J/\psi \rightarrow D^- \rho^+$ and present the most stringent constraints of 10^{-6} at 90% confidence level. Furthermore, the result of $J/\psi \rightarrow D^- e^+ \nu_e + c.c.$ with 10 billion newly collected J/ψ data and some other prospect results are also presented.

Collaboration / Activity

BESIII

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