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Measurement of J/ψ decays into final states $2(\pi^+\pi^-)\pi^0$, $K^+K^-\pi^+\pi^-\pi^0$, $2(\pi^+\pi^-)$ and $K^+K^-\pi^+\pi^-$ with the KEDR detector

Thursday, 18 August 2022 16:25 (25 minutes)

Using the $1.32\,pb^{-1}$ statistics collected at the J/ψ peak with the KEDR detector at the VEPP-4M e^+e^- collider, we measured the branching fractions of J/ψ meson decays to the final states $2(\pi^+\pi^-)\pi^0$, $K^+K^-\pi^+\pi^-\pi^0$, $2(\pi^+\pi^-)$ and $K^+K^-\pi^+\pi^-$. The results obtained for the decays $J/\psi \to 2(\pi^+\pi^-)\pi^0$, $J/\psi \to K^+K^-\pi^+\pi^-\pi^0$ contradict the measurements performed by other groups in the last century, but agree well with recent results of BABAR and BESIII collaborations.

Category

talk

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