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Measurements of Hadronic Form Factors at BESIII

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Content

The measurements of hadronic form factors using the data samples collected with the BESIII detector at BEPCII collider are presented. The cross section of $e^+e^- \rightarrow p\bar{p}$ at 12 energies from 2232.4 to 3671.0 MeV are measured, the electromagnetic form factor is deduced, and the ratio $|G_E/G_M|$ is extracted by fitting the polar angle distribution. The cross section of $e^+e^- \rightarrow \pi^+\pi^-$ between effective center-of-mass energy 600 and 900 MeV is measured by the ISR return method using the data set with the integrated luminosity of 2.93 fb^{-1} taken at $\psi(3773)$ peak, the pion form factor $|F_\pi|^2$ is extracted. The other preliminary results about the form factors of $e^+e^- \rightarrow \Lambda\bar{\Lambda}$, $\Lambda_c^+\bar{\Lambda}_c^-$, K^+K^- , and the measurement of the resonant parameters of J/ψ will also be mentioned.

Session

Proton structure, small and large x physics

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