

Exotics at BESIII

Thursday, 2 June 2016 10:30 (0:30)

Collaboration

BESIII

Abstract content

With the data taking at BESIII detector, we perform a search of exotics, including X, Y, and Z states. As a result, we observed X(1835) in $J/\psi \rightarrow \gamma p \bar{p}$, observed X(3823) in $e^+e^- \rightarrow \pi^+\pi^-\chi_{c1}$. We confirmed X(3872) in $e^+e^- \rightarrow \gamma\pi^+\pi^-J/\psi$. We observed a possible resonance Y(4220) in the line-shape of $e^+e^- \rightarrow \pi^+\pi^-J/\psi$, which is quite different from the Y(4260) reported by BaBar and Belle experiments. We observed charged and neutral $Z_c(3900)$ and $Z_c(4020)$ in $e^+e^- \rightarrow \pi\pi J/\psi, \pi\pi h_c$, respectively, and observed charged and neutral $Z_c(3885)$ and $Z_c(4025)$ in $e^+e^- \rightarrow \pi(DD^*), \pi(D^*D^*)$, respectively.

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Session Classification : Plenary Session