

The cross-section measurements of electron-positron annihilation above 4 GeV

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To understand the nature of vector charmonium and charmonium-like states better, the measurements of the cross-section of $e^+ e^- \rightarrow \pi^+ \pi^- J/\psi$, $e^+ e^- \rightarrow K^+ K^- J/\psi$, $e^+ e^- \rightarrow \pi^+ \pi^- \psi(3823)$, $e^+ e^- \rightarrow D^+ D^-$ and $e^+ e^- \rightarrow D^{*+} D^-$ are performed at BESIII recently. This talk will include the new decay modes of the well-known resonance, such as $Y(4230)$, and the new observed structures that strongly coupled to these channels.

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