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New results of the vector charmoniumlike states

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The vector charmoniumlike (such as $Y(4260)$, $Y(4360)$, and $Y(4660)$) states are observed in exclusive processes in electron-positron collider, but not appear in the total hadronic cross section. Understanding of these vector charmoniumlike states is a challenge. BESIII has collected more than 13 fb^{-1} data samples at center of mass energies from 3.8 to 4.6 GeV, including 13 energy points with luminosity larger than 500 pb^{-1} each, which makes the study of the small production rate or low efficiency processes possible. In this talk, new results on the vector states are presented, such as $e^+e^- \rightarrow \pi^+\pi^-\psi(3770)$, $D_1(2410)D$, $\omega\chi_{c0}$, $\eta'(\prime)\psi(1,2S)$, and light hadron final states.

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