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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 fbˆ{-1} data samples at center of mass energies from 3.8 to 4.6 GeV, including 13 energy points with luminosity larger than 500 pbˆ{-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 -> pi pi psi(3770), D1(2410) D, omega chi_c0, etaˆ(') psi(1,2S), and light hadron final states.

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