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Charmonia production in e^+e^- annihilation at center-of-mass energies above 3.81 GeV

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We present measurements of charmonia production cross sections in e^+e^- annihilation at center-of-mass energies from 3.81 GeV to 4.95 GeV at BESIII. The number of observed vector states in this energy region exceeds that of the predicted vector charmonium states. These features suggest that some of these supernumerary vector states are candidates of an exotic nature. To clarify the nature of these states and to distinguish between the different theoretical models, precise measurements of the production cross section and of the resonance parameters are essential.

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