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XYZ states at BESIII

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The BESIII Experiment at the Beijing Electron Positron Collider (BEPC2) has accumulated the world's largest samples of e+e- collisions in the tau-charm region. Cross sections of e+e- \rightarrow pi+pi- psi(2S) above 4.0 GeV, and a charged structure has been observed in the pi psi(2S) mass spectrum. Cross sections of e+e- \rightarrow KKbar J/psi between 4189 and 4600 MeV. Compared with pi+ pi- J/psi, more complex structure in the line shape is observed. Quantum number J'P of Zc(3900) is determined to be 1^+ by partial wave analysis of e^+ e^- \rightarrow pi+pi^- J/psi at 4.23 and 4.26 GeV. Observation of e+e- \rightarrow eta' Jpsi at center-of-mass energies between 4.190 and 4.600 GeV. Measurement of the e+e- \rightarrow pi+ pi- h_c cross section at BESIII, in addition to previous Y(4230), a new wider Y state has been observed. Precise measurement of the e+e- \rightarrow pi+ pi- J/psi cross section at center-of-mass energies from 3.77 to 4.60 GeV, in addition to the previously found Y(4230), a new wider Y state has been observed.

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