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Recent measurements of charmonium decays

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I shall present a few recent measurements of charmonium decays at BESIII in this talk. It will include i) based on 448M psi(3686) events collected with theBESIII detector, the decay psi(3686) -> phi Ks0 Ks0 is observed for the first time. And the branching fraction is measured with considering the interference between psi(3686) and continuum production; ii) using an electron positron collision data sample of 2.7B psi(3686) events collected by the BESIII detector, the process chi_cJ -> Omega- anti-Omega+ (J=0,1,2) has been observed for the first time, and the significance is 5.6, 6.4, 18 sigma, respectively. The corresponding branching fractions will be reported too; iii) the Born cross-section of the process e+ e- -> eta J/psi at aCMS energy 3.773 GeV is measured by using data samples collected at BESIII. The decay psi(3770) -> eta J/psi is observed for the first time with a statistical significance of 7.4 sigma. The branching fraction of psi(3770) -> eta J/psi is determined by considering the interference between psi(3770) and continuum, as well as the highly excited vector states.

Parallel Session

Poster Session

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