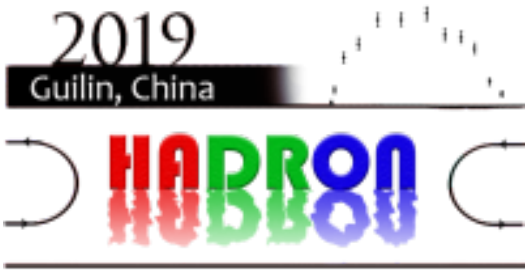

Contribution ID: **12** Type: **Parallel**

Study of phi(2170) at BESIII

Tuesday, 20 August 2019 09:35 (20 minutes)

The nature of phi(2170) is still unclear. phi(2170) is proposed to be a traditional s s-bar state, an s s-bar g hybrid, a tetraquark state, a Lambda Lambda-bar bound state, or a phi KK resonance state. The predicted decay width of the individual explanations is quite different. Information from experiments on the known decay modes of phi(2170) is limited, and the measured values of mass and width of phi(2170) are inconsistent. With 500 pbˆ-1 data collected by the BESIII detector between 2.0GeV and 3.08GeV, we measure the line-shape of e+e- -> K+K-/2(K+K-)/phi eta/phi eta' /omega pi0/omega eta/K+K-pi0pi0, and extract resonance parameters by fitting the Born cross sections of the exclusive decay modes

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Session Classification: Session 1: Meson spectroscopy

Track Classification: Session 1: Meson spectroscopy