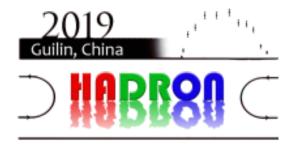
XVIII International Conference on Hadron Spectroscopy and Structure (HADRON2019)



Contribution ID: 178 Type: Parallel

Line shape of states in electron-positron annihilation and the role of below-threshold resonance

Tuesday, 20 August 2019 11:50 (20 minutes)

We give a parameterizztion of the anomalous line shape of resonances based on a Fano-type formula, which can be widely used to extract properties of resonances from data. We employ it to explain the anomalous line shape of the $e^+e^-\to D\bar{D}$ and $e^+e^-\to \Lambda\bar{\Lambda}$. In both reactions, a below-threshold state is found to play significant role in the measured cross sections.

Primary author: CAO, Xu (Institute of Modern Physics, CAS, Lanzhou)

Presenter: CAO, Xu (Institute of Modern Physics, CAS, Lanzhou)

Session Classification: Session 4: Hadron decays, production and interactions

Track Classification: Session 4: Hadron decays, production and interactions