



Contribution ID : 100

Type : Oral talk

Measurement of the energy dependence of the $e^+e^- \rightarrow B\bar{B}, B\bar{B}^*,$ and $B^*\bar{B}^*$ cross sections at Belle II

Thursday, 24 October 2024 17:35 (15)

We report measurements of the $e^+e^- \rightarrow B\bar{B}, B\bar{B}^*,$ and $B^*\bar{B}^*$ cross sections at four energies, 10653, 10701, 10746 and 10805 MeV, using data collected by the Belle II experiment. We reconstruct one B meson in a large number of hadronic final states and use its momentum to identify the production process. In the first 2 – 5 MeV above $B\bar{B}^*$ threshold, the $e^+e^- \rightarrow B^*\bar{B}^*$ cross section increases rapidly. This may indicate the presence of a pole close to the threshold.

Primary author(s) : PRIVALOV, Sergey

Presenter(s) : PRIVALOV, Sergey

Session Classification : HEP Experiment

Track Classification : High energy physics: experiment