

XVth Quark Confinement and the Hadron Spectrum



Contribution ID: 62

Type: Oral

Recent results of Baryon electromagnetic form factors at BESIII

Thursday 22 August 2024 11:20 (20 minutes)

At BESIII, the electromagnetic form factors (EMFFs) and the pair production cross sections of various baryons have been studied. The proton EMFF ratio $|G_E/G_M|$ is determined precisely and line-shape of $|G_E|$ is obtained for the first time. The recent results of neutron EMFFs at BESIII show great improvement comparing with previous experiments. Cross sections of various baryon pairs (Λ , Σ , Ξ , Λ_{b}^0) are studied from their thresholds. Anomalous enhancement behavior on the Λ and Λ_{b}^0 pair are observed. The relative phase of EMFFs for Λ and Σ^+ are measured for the first time.

Primary author: Mr SHI, Hua (University of Science and Technology of China)

Presenter: Mr SHI, Hua (University of Science and Technology of China)

Session Classification: Light Quarks

Track Classification: B: Light Quarks