Contribution ID: **349** Type: **Invited Presentation**

Timelike Form Factors of Baryons

The electromagnetic structure of baryons, parametrized in terms of electromagnetic form factors (EMFFs), provides a key to understanding quantum chromodynamics effects in bound states. While spacelike form factors for the proton and neutron are accessible through the elastic electron scattering, the most viable option for unstable hadrons is the timelike EMFFs. Recently, precise measurements of pair production of proton, neutron, strange and charmed hyperons in the annihilation of electron and positron has brought renewed insights into the electromagnetic structure of the baryons. In this talk, I will introduce you the latest experimental results on the study of baryon EMFFs and discuss the possible theoretic interpretations for the non-trivial properties of the baryon EMFFs.

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Session Classification: Parallel session

Track Classification: Hadron Structure, Spectroscopy and Dynamics