Contribution ID: **117** Type: **Parallel**

N(1520) electromagnetic transition form factors

Monday, 26 June 2023 15:00 (20 minutes)

The electromagnetic transition form factors of the nucleon provide important information on the internal structure of hadrons. A model-independent dispersive calculation of the Electromagnetic form factors $N^*(1520) \to N$ at low energies will be presented. Taking pion rescattering into consideration, we derived dispersive relations for the $N^*(1520) \to N$ TFFs that relate space-like and time-like regions from the first principles. Based on the space-like data from JLab, we make predictions for TFFs in the time-like region and our predictions can be tested in future experiments (e.g.HADES).

Collaboration

Primary author: AN, Di (Uppsala University)

Co-author: LEUPOLD, Stefan (Uppsala University)

Presenter: AN, Di (Uppsala University)

Session Classification: Parallel session A6