



Contribution ID: 537

Type: **Oral presentation**

Connecting Matrix Elements to Multi-Hadron Form-Factors

Tuesday, 27 July 2021 21:00 (15 minutes)

We discuss developments in calculating multi-hadron form-factors and transition processes via lattice QCD. Our primary tools are finite-volume scaling relations, which map spectra and matrix elements to the corresponding multi-hadron infinite-volume amplitudes. We focus on two hadron processes probed by an external current, and provide various checks on the finite-volume formalism in the limiting cases of perturbative interactions and systems forming a bound state. By studying model-independent properties of the infinite-volume amplitudes, we are able to rigorously define form-factors of resonances.

Primary author: Dr JACKURA, Andrew (Old Dominion University and Jefferson Lab)

Presenters: Dr JACKURA, Andrew (Old Dominion University and Jefferson Lab); JACKURA, Andrew (Indiana University)

Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions