Contribution ID: **35** Type: **Invited talk**

Quark-hadron duality: connecting the perturbative and non-perturbative QCD regimes

Tuesday, 22 September 2015 12:15 (30 minutes)

The intriguing phenomenon of quark-hadron duality reflects the non-trivial relationship between observables at low energies in the region dominated by resonances and those in the deep inelastic scattering regime: averaged over the appropriate energy intervals the behavior of low-energy observables mimics that of high-energy, deep inelastic scattering ones. Quark-hadron duality has been intensively studied as it contains information about the relationship between the QCD confinement and asymptotic freedom, about the transition between the perturbative and non-perturbative regimes in QCD. In this talk I will give an overview of the experimental signatures of quark-hadron duality and of theoretical approaches to understanding this phenomenon.

Primary author: Dr MALACE, Simona (Jefferson Lab)

Presenter: Dr MALACE, Simona (Jefferson Lab)

Session Classification: 6.