

# International Workshop on Partial Wave Analyses and Advanced Tools for Hadron Spectroscopy



Contribution ID: 32

Type: **not specified**

## Amplitude Analysis for exotic states

*Thursday, March 16, 2017 5:30 PM (30 minutes)*

The microscopic nature of the XYZ states remains an unsettled topic. We show how a thorough amplitude analysis of the data can help constraining models of these states. Specifically, we consider the case of the  $Z_c(3900)$  peak and discuss possible scenarios of a QCD state, virtual state, or a kinematical enhancement. We conclude that current data are not precise enough to distinguish between these hypotheses, however, the method we propose, when applied to the forthcoming high-statistics measurements should shed light on the nature of these exotic enhancements.

**Primary author:** Dr PILLONI, Alessandro (Jefferson Lab)

**Presenter:** Dr PILLONI, Alessandro (Jefferson Lab)

**Session Classification:** Session

**Track Classification:** Topic 3: Theoretical Constraints on Amplitude Analyses