

Workshop on Hadron Spectroscopy

November 9 – 13, 2009

Monday, November 9

08:00 - 09:00 Registration in C411, the Physics/Astronomy Building
All talks will be in C520, the Physics/Astronomy Building

09:00 - 09:20 Organizers: Opening and plan of meeting

New Perspectives in Hadron Spectroscopy

09:20 - 10:05 V. Crede: Glueballs, hybrids, quarkonia: a global view

10:05 - 10:35 Break

10:35 - 11:20 U. Wiedner: Search for glueballs and hybrids in antiproton annihilations

11:20 - 12:05 C. Meyer: The physics of GlueX

12:05 - 14:00 Lunch

Amplitude Analysis: Physics and Techniques

14:00 - 14:30 I. Aitchison: Amplitude analysis for three-hadron states: Historical perspective

14:30 - 15:00 Break

15:00 - 15:45 B. Zou: The isobar model and the BES analysis framework

15:45 - 16:15 P. Guo: Final state interaction in PWA of $J/\psi \rightarrow 3\pi$ and the $\rho\text{-}\pi$ puzzle

16:15 - 16:30 Break

16:30 - 17:15 L. Lesniak: Final state interactions in hadronic three-body B-decays

17:15 - 18:30 Discussion: Amplitude Analysis in Hadron Spectroscopy

Tuesday, November 10

New Perspectives in Hadron Spectroscopy

09:00 - 09:45 Free discussion

09:45 - 10:30 L. Gan: Search for New Physics via eta Neutral Rare Decays at Jlab 12 GeV

10:30 - 11:00 Break

11:00 - 11:45 T. Barnes: Charmonium production at GSI

11:45 - 14:00 Lunch

QCD and Models

14:00 - 14:45 J. Dudek: Exotic meson spectroscopy and production from lattice QCD

14:45 - 15:15 Break

15:15 - 16:00 S. Godfrey: From XYZ to strangeonium

QCD and Models (continued)

- 16:00 - 16:45 S. Brodsky: *AdS/QCD and Novel J-Lab Phenomena*
16:45 - 17:00 *Break*
17:00 - 18:00 *Discussion: QCD and the Hadron Spectrum*
19:00 *Workshop Dinner at Ivar's Restaurant*

Wednesday, November 11

New Perspectives in Hadron Spectroscopy

- 09:00 - 09:45 B. Di Micco: *Study of the light meson spectrum in e^+e^- and gamma-gamma collisions with KLOE at DAFNE*
09:45 - 10:30 M. Battaglieri: *Perspective in hadron spectroscopy with CLAS12*
10:30 - 11:00 *Break*
11:00 - 11:45 S. Neubert: *Hadron Spectroscopy at COMPASS*
11:45 - 14:00 *Lunch*

Amplitude Analysis: Physics and Techniques

- 14:00 - 14:45 M. Paris: *Dynamical coupled channel approach to single meson photoproduction*
14:45 - 15:15 *Break*
15:00 - 15:45 L. Bibrzycki: *Scalar meson photoproduction, PWA, interference effects in resonance photoproduction.*
15:45 - 16:30 J. Pelaez: *Phenomenology of light meson interactions*
16:30 - 17:00 *Break*
17:00 - 17:45 C. Hanhart: *The role of meson loops in the charm sector*
17:15 - 18:15 *Discussion: Physics of Amplitude Analysis*

Thursday, November 12

New Perspectives in Hadron Spectroscopy

- 09:00 - 09:45 A. Gasparyan: *Precision measurements of the pseudo scalar mesons lifetime with the JLab 12 GeV upgrade*
09:45 - 10:30 V. Mokşev: *The studies of nucleon resonances in charged double pion electroproduction off protons with CLAS and CLAS12.*
10:30 - 11:00 *Break*
11:00 - 11:45 T. Barnes: *Meson-baryon coupling constants and NN scattering models; theory and experiment.*
11:45 - 14:00 *Lunch*

Amplitude Analysis: Physics and Techniques

14:00 - 14:45	<i>M. Paris:</i>	<i>Partial wave amplitude reconstruction from observables</i>
14:45 - 15:15	<i>Break</i>	
15:00 - 15:45	<i>C. Tarbert:</i>	<i>Monte Carlo Techniques for Amplitude Analyses</i>
15:45 - 16:30	<i>A. Svarc</i>	<i>Inherent model dependence of Breit-Wigner parameters, poles as a true signal of resonance properties.</i>
16:30 - 17:00	<i>Break</i>	
17:00 - 17:45	<i>N. Berger</i>	<i>Partial Wave Analysis at BES III harnessing the power of GPUs</i>
17:15 - 18:15	<i>Discussion:</i>	<i>Physics and Techniques of Amplitude Analysis</i>

Friday, November 13

New Perspectives in Hadron Spectroscopy

09:00 - 09:45	<i>Free Discussion</i>	
09:45 - 10:30	<i>R. Mitchell:</i>	<i>New Tools for Amplitude Analyses</i>
10:30 - 11:00	<i>Break</i>	
11:00 - 11:45	<i>C. Thomas:</i>	<i>Exotic and excited-state radiative transitions in charmonium from lattice QCD</i>
11:45 - 14:00	<i>Lunch</i>	

Amplitude Analysis: Physics and Techniques

14:00 - 14:45	<i>S. Capstick:</i>	<i>Cascade baryon spectrum and decays. Electromagnetic form factors of baryons in a light-front model</i>
14:45 - 15:15	<i>Break</i>	
15:00 - 15:45	<i>A. Svarc:</i>	<i>Continuum ambiguities as a limitation factor in single-channel PW analysis</i>
15:45 - 16:15	<i>H. Kwee:</i>	<i>Isospin-symmetry breaking mass difference in Ξ and Ξ_c baryons</i>
16:15 - 16:45	<i>D. Ireland:</i>	<i>Extraction of amplitude information from polarization observables in Kaon Photoproduction at CLAS- Use of Bayesian analysis techniques</i>
16:45 - 17:15	<i>Break</i>	
17:15 - 18:30	<i>Discussion:</i>	<i>White Paper Preparation on Physics and Techniques of Amplitude Analysis</i>