

# Program of the Workshop "Bound states in QCD and beyond"

24<sup>th</sup> - 27<sup>th</sup> of March 2015

Schlosshotel Rheinfels, St. Goar

## **Morning sessions**

Time	Tuesday	Time	Wednesday	Time	Thursday	Time	Friday
08:50	Opening						
09:00	Pennington The brief life of a hadron: QCD unquenched	09:00	Hosaka Charmed baryons structure, productions and decays	09:00	Dudek The excited hadron spectrum from lattice QCD	09:00	Kubis Final-state interactions in meson decays using dispersion theory
09:40	Wormser Latest charmonium results from the BABAR experiment	09:40	Neubert Exotic mesons and excited state spectroscopy at LHCb	09:40	Gradl Recent XYZ results from BESIII	09:40	Cole What nucleons resonances teach us about the nucleon structure
10:20	Moir Spectroscopy and scattering in the open charm sector	10:20	Swanson Cusps and Exotic States	10:20	Williams Hadronic bound-states beyond rainbow-ladder	10:20	Eichmann Tetraquarks from the Bethe- Salpeter equation
10:45	Coffee Break	10:45	Coffee Break	10:45	Coffee Break	10:45	Coffee Break
11:15	Mandagopalan Spectroscopy of charmed baryons from lattice QCD	11:15	Szczepaniak XYZ's as evidence for new hadronic phenomena	11:15	Greensite A variational model for bound states, with lattice input	11:15	Piemonte Bound states with massless fermions in the adjoint representation of the gauge group
11:40	Lenske Charmonium Dynamics at Thresholds	11:55	Rischke Hadrons in Vacuum and in Medium in an Effective Chiral Approach	11:40	Kondo A systematic derivation of the Bethe-Salpeter equation for the gluon-ghost amplitude in gluodynamics and the numerical solutions	11:40	Lutz Chiral extrapolation of baryon masses and large-Nc QCD
12:05	Bulava I=1 pion-pion scattering with the Stochastic LapH method	12:20	Su Massless Mode and Positivity Violation in Hot QCD	12:05	Sanchis-Alepuz Glueballs in the Dyson- Schwinger approach	12:20	Lucini Bound states at large N
12:30	Alexandru pi-pi scattering in the I=1 channel from elongated lattices			12:30	Eshraim Phenomenology of a pseudoscalar glueball and charmed mesons in a chiral symmetric model	13:00	Shindler Beyond the Standard model matrix elements with the gradient flow: the case of the nucleon electric dipole moment
12:55	End of the morning sessons	12:45	End of the morning sessons	12:55	End of the morning sessons	13:25	End of conference
13:15	Lunch	13:00	Lunch	13:15	Lunch	13:35	Lunch



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#### Afternoon sessions

Time	Tuesday	Time	Wednesday	Time	Thursday	Time	Friday
15:00	Del Debbio Mass spectrum of deformed CFTs		Time for discussions	15:00	Alexandrou Baryons and decays in Lattice QCD		
15:40	Nogradi Toward a minimal realization of a light composite Higgs			15:40	Mohler Heavy-hadron Bound States and Resonances from lattice QCD		
16:20	Vujinovic Bound states in an SU(2) gauge theory in a Dyson-Schwinger approach			16:20	Berlin Investigation of the tetraquark candidate a_0(980)		
16:45	Coffee Break	16:30	Poster Session (including coffee)	16:45	Coffee Break		
17:15	Alkofer On bound states in gauge theories with different matter content	17:15	Mitter Chiral symmetry breaking in continuum QCD	17:15	Rinaldi Composite Dark Matter on the lattice		
17:40	Nagahiro Elementarity of composite systems	17:40	Hilger Phenomenological application of the Dyson-SchwingerBethe- Salpeter equation approach to quarkonia	17:40	Rzayeva Gauge Thoeries And Higgs Field		
18:05	End of day	18:05	End of day	18:05	End of day		
18:30	Dinner	18:30	Dinner	18:30	Dinner		

### **Posters:**

Fischer: Phase structure of Nf=2+1 and Nf=2+1+1 QCD

Giudice: Low lying spectrum of SU(2) with adjoint Nf=2 fermions

Maas: Bound states, gauge invariance, and new physics

Mian: Delayed Magnetic Catalysis

Ryan: Excited and exotic charmonium spectroscopy from Lattice QCD

Serafin: Relativistic description of bound states and scattering amplitudes in Hamiltonian dynamics