

Excited QCD 2013



Report of Contributions

Contribution ID: 1

Type: **not specified**

Scalar mesons and tetraquarks from twisted mass lattice QCD

We study the light scalar mesons $a_0(980)$ and κ using $N_f = 2+1+1$ flavor twisted mass lattice QCD. In order to probe the internal structure of these scalar mesons, and in particular to identify, whether a sizeable tetraquark component is present, we use a large set of operators, including diquark-antidiquark, mesonic molecule and two-meson operators. We find that the low-lying states overlap essentially exclusively with two-meson states. This indicates that in the channels investigated no tightly bound four quark states of either molecular or diquark-antidiquark type exist.

Primary author: Prof. WAGNER, Marc (Goethe University Frankfurt)

Presenter: Prof. WAGNER, Marc (Goethe University Frankfurt)

Contribution ID: 59

Type: **not specified**

Properties and composition of the $f_0(500)$ resonance

Monday, 4 February 2013 09:00 (25 minutes)

Primary author: PELAEZ, Jose R.

Presenter: PELAEZ, Jose R.

Contribution ID: **60**

Type: **not specified**

Light Hadron Physics at KLOE and KLOE-2

Monday, 4 February 2013 09:50 (25 minutes)

Presenter: GAUZZI, Paolo

Contribution ID: 61

Type: **not specified**

Study of the K^+K^- final state interaction in proton – proton and electron – positron collisions

Wednesday, 6 February 2013 11:10 (25 minutes)

Presenter: SILARSKI, Michal

Contribution ID: 62

Type: **not specified**

Light quark masses in multi-quark interactions

Monday, 4 February 2013 10:45 (25 minutes)

Presenter: HILLER, Brigitte

Contribution ID: 63

Type: **not specified**

Gauge Fixing in Lattice QCD on Multi-GPUs

Monday, 4 February 2013 11:10 (25 minutes)

Presenter: SCHROECK, Mario

Contribution ID: 64

Type: **not specified**

Meson Spectroscopy at CLAS12

Monday, 4 February 2013 11:35 (25 minutes)

Presenter: CELENTANO, Andrea

Contribution ID: 65

Type: **not specified**

The NICA project at JINR, Dubna

Monday, 4 February 2013 16:30 (25 minutes)

Presenter: SORIN, Alexander

Contribution ID: 66

Type: **not specified**

The search for glueballs and hybrids

Monday, 4 February 2013 16:55 (25 minutes)

Presenter: WIEDNER, Ulrich

Contribution ID: 67

Type: **not specified**

Future plans and perspectives for hadronic physics at the INFN Frascati National Laboratory

Monday, 4 February 2013 17:50 (25 minutes)

Presenter: GIANOTTI, Paola

Contribution ID: **68**

Type: **not specified**

Hadronic contributions to the muon $g-2$

Monday, 4 February 2013 18:15 (25 minutes)

Presenter: WILLIAMS, Richard

Contribution ID: 69

Type: **not specified**

Mesons in a Bethe-Salpeter approach in Rainbow-Ladder

Monday, 4 February 2013 18:40 (25 minutes)

Presenter: VUJINOVIC, Milan

Contribution ID: 70

Type: **not specified**

Flow in p-Pb collisions at the LHC

Tuesday, 5 February 2013 09:00 (25 minutes)

Presenter: BRONIOWSKI, Wojciech

Contribution ID: 71

Type: **not specified**

Quantifying initial state fluctuations in heavy ion collisions

Tuesday, 5 February 2013 09:25 (25 minutes)

Presenter: PETERSEN, Hannah

Contribution ID: 72

Type: **not specified**

Latest QCD results from the ALICE experiment

Tuesday, 5 February 2013 09:50 (25 minutes)

Presenter: GUERZONI, Barbara

Contribution ID: 73

Type: **not specified**

Geometrical scaling in high energy collisions and its breaking

Tuesday, 5 February 2013 10:45 (25 minutes)

Presenter: PRASZALOWICZ, Michal

Contribution ID: 74

Type: **not specified**

Particle Production at HERA

Tuesday, 5 February 2013 11:10 (25 minutes)

Presenter: LISOVYI, Mykhailo

Contribution ID: 75

Type: **not specified**

Lattice QCD based equation of state at finite baryon density

Tuesday, 5 February 2013 11:35 (25 minutes)

Presenter: HUOVINEN, Pasi

Contribution ID: 76

Type: **not specified**

A First Estimate of Triply Heavy Baryon Masses from the pNRQCD Perturbative Static Potential

Tuesday, 5 February 2013 16:30 (25 minutes)

Presenter: LLANES-ESTRADA, Felipe

Contribution ID: 77

Type: **not specified**

Latest QCD results on p+p collisions from CMS

Tuesday, 5 February 2013 16:55 (25 minutes)

Presenter: ISILDAK, Bora

Contribution ID: 78

Type: **not specified**

Latest QCD results on Pb-Pb collisions from CMS

Tuesday, 5 February 2013 17:50 (25 minutes)

Presenter: MILOSEVIC, Jovan

Contribution ID: 79

Type: **not specified**

Event-by-event fluctuations and the correlation between early and late emitted particles

Tuesday, 5 February 2013 18:15 (25 minutes)

Presenter: MOTA, Philipe

Contribution ID: 80

Type: **not specified**

Tensor meson photoproduction on proton through the final state meson-meson interactions

Tuesday, 5 February 2013 18:40 (25 minutes)

Presenter: BIBRZYCKI, Łukasz

Contribution ID: **81**

Type: **not specified**

$f_0(1370)$ and spectroscopy with glueballs

Wednesday, 6 February 2013 09:00 (25 minutes)

Presenter: OCHS, Wolfgang

Contribution ID: **82**

Type: **not specified**

Scalar mesons and tetraquarks from twisted mass lattice QCD

Wednesday, 6 February 2013 09:25 (25 minutes)

Presenter: WAGNER, Marc

Contribution ID: 83

Type: **not specified**

Meson vacuum phenomenology in a three-flavor linear sigma model with (axial-)vector mesons

Wednesday, 6 February 2013 09:50 (25 minutes)

Presenter: KOVACS, Peter

Contribution ID: 84

Type: **not specified**

Glueballs in the Bethe-Salpeter Formalism

Wednesday, 6 February 2013 10:45 (25 minutes)

Presenter: SWANSON, Eric

Contribution ID: 85

Type: **not specified**

Hadron resonances from lattice QCD

Wednesday, 6 February 2013 16:55 (25 minutes)

Presenter: PRELOVSEK, Sasa

Contribution ID: 86

Type: **not specified**

Scalar mesons, $\pi\pi$ D-wave fotoproduction and threshold parameters - all from the Roy like dispersion relations

Monday, 4 February 2013 09:25 (25 minutes)

Presenter: KAMINSKI, Robert

Contribution ID: 87

Type: **not specified**

Quarkonia suppression in quark-gluon plasma

Wednesday, 6 February 2013 16:30 (25 minutes)

Presenter: GOSSIAUX, Pol

Contribution ID: **88**

Type: **not specified**

QCD with two light dynamical Chirally Improved quarks

Wednesday, 6 February 2013 11:35 (25 minutes)

Presenter: ENGEL, Georg

Contribution ID: 89

Type: **not specified**

Calculating the analytic structure of QFT Green's functions on GPUs

Wednesday, 6 February 2013 17:50 (25 minutes)

Presenter: WINDISCH, Andreas

Contribution ID: **90**

Type: **not specified**

Low mass scalar mesons in a simple effective model

Wednesday, 6 February 2013 18:15 (25 minutes)

Presenter: WOLKANOWSKI, Thomas

Contribution ID: 91

Type: **not specified**

Phenomenology of the Scalar-Isoscalar Resonances **$f_0(1370)$, $f_0(1500)$ and $f_0(1710)$**

Wednesday, 6 February 2013 18:40 (25 minutes)

Presenter: JANOWSKI, Stanislaus

Contribution ID: 92

Type: **not specified**

Center Symmetry and Confinement

Thursday, 7 February 2013 09:00 (25 minutes)

Presenter: COHEN, Thomas

Contribution ID: 93

Type: **not specified**

Differentiating between Δ and Y -string confinement: Can one see the difference in baryon spectra?

Thursday, 7 February 2013 09:25 (25 minutes)

Presenter: DMITRASINOVIC, Veljko

Contribution ID: 94

Type: **not specified**

Simulation of Gauge-Higgs models using the worm algorithm

Thursday, 7 February 2013 09:50 (25 minutes)

Presenter: DELGADO MERCADO, Ydalia

Contribution ID: 95

Type: **not specified**

Restoration of axial symmetry at finite temperature and its connection with restoration of chiral symmetry and deconfinement

Thursday, 7 February 2013 10:45 (25 minutes)

Presenter: RUIVO, Maria

Contribution ID: 96

Type: **not specified**

Heavy Ion Jets Measured by ATLAS

Thursday, 7 February 2013 11:10 (25 minutes)

Presenter: SANTOS, Helena

Contribution ID: 97

Type: **not specified**

The role of the quark-gluon vertex in the QCD phase transition

Thursday, 7 February 2013 11:35 (25 minutes)

Presenter: HOPFER, Markus

Contribution ID: 98

Type: **not specified**

Eta' multiplicity and the Witten-Veneziano relation at finite temperature

Thursday, 7 February 2013 16:30 (25 minutes)

Presenter: KLABUCAR, Dubravko

Contribution ID: 99

Type: **not specified**

Inverse Magnetic Catalysis in dense matter

Thursday, 7 February 2013 16:55 (25 minutes)

Presenter: SCHMITT, Andreas

Contribution ID: **100**

Type: **not specified**

QCD-like theories under extreme conditions

Presenter: BRAUNER, Tomas

Contribution ID: **101**

Type: **not specified**

QCD-like theories under extreme conditions

Thursday, 7 February 2013 17:50 (25 minutes)

Presenter: BRAUNER, Tomas

Contribution ID: **102**

Type: **not specified**

From field theory to superfluid hydrodynamics of dense quark matter

Thursday, 7 February 2013 18:15 (25 minutes)

Presenter: STETINA, Stephan

Contribution ID: **103**

Type: **not specified**

Mesonic correlations in non-local NJL - status report

Thursday, 7 February 2013 18:40 (25 minutes)

Presenter: BENIC, Sanjin

Contribution ID: **104**

Type: **not specified**

Development of the Bonn-Gatchina partial wave analysis method and search for parity partners

Friday, 8 February 2013 09:00 (25 minutes)

Presenter: SARANTSEV, Andrey

Contribution ID: **105**

Type: **not specified**

Excited Hadrons, Heavy Quarks and QCD thermodynamics

Friday, 8 February 2013 09:25 (25 minutes)

Presenter: RUIZ ARRIOLA, Enrique

Contribution ID: **106**

Type: **not specified**

Hadron Production in ISR and 2-photon annihilations at BABAR

Friday, 8 February 2013 09:50 (25 minutes)

Presenter: STRAMAGLIA, Maria Elena

Contribution ID: **107**

Type: **not specified**

Nucleon excited states

Friday, 8 February 2013 10:45 (25 minutes)

Presenter: VERDUCI, Valentina

Contribution ID: **108**

Type: **not specified**

Odd parity dynamically generated baryon resonances with heavy flavor

Friday, 8 February 2013 11:10 (25 minutes)

Presenter: ROMANETS, Olena

Contribution ID: **109**

Type: **not specified**

Study of tetraquark system from meson-meson scattering with a color flip-flop model

Friday, 8 February 2013 11:35 (25 minutes)

Presenter: CARDOSO, Marco

Contribution ID: **110**

Type: **not specified**

Precision tests of QCD at HERA

Friday, 8 February 2013 16:30 (25 minutes)

Presenter: RAICEVIC, Natasa

Contribution ID: 111

Type: **not specified**

Strange and charm meson masses from twisted mass lattice QCD

Friday, 8 February 2013 16:55 (25 minutes)

Presenter: KALINOWSKI, Martin

Contribution ID: 112

Type: **not specified**

Recent results on $\Upsilon(5S)$ decays at Belle

Friday, 8 February 2013 17:50 (25 minutes)

Presenter: SOLOVIEVA, Elena

Contribution ID: 113

Type: **not specified**

Dilepton production in pion-nucleon collision

Friday, 8 February 2013 18:15 (25 minutes)

Presenter: ZETENYI, Miklos

Contribution ID: **114**

Type: **not specified**

Overview of physics at FAIR

Friday, 8 February 2013 18:40 (25 minutes)

Presenter: NICMORUS, Diana

Contribution ID: **117**

Type: **not specified**

Opening Remarks

Monday, 4 February 2013 08:50 (10 minutes)

Presenter: ORGANIZERS