HHIQCD 2015 PROGRAM (Symposium)

For the latest information, please check the following url: http://www2.yukawa.kyoto-u.ac.jp/~hhiqcd.ws/schedule_sympo.html

2nd March (Mon.)

Heavy hadrons and exotics 1 — Chair: A. Hosaka

09:00 - 09:05	Atsushi Hosaka (Research Center for Nuclear Physics, Osaka University) Opening address
09:05 - 09:50	Makoto Oka (Tokyo Institute of Technology) Hadron Spectroscopy from Strange to Charm/Bottom - Effective theories or Lattice? -
09:50 - 10:35	Marco Maggiora (INFN Torino) Highlights on BESIII recent results
10:35 - 11:05	Shunsuke Ohkoda (Tokyo Institute of Technology) Spin partners of heavy meson molecules
11:05 - 11:30	Coffee

Heavy hadrons and exotics 2 — Chair: M. Oka

11:30 - 12:15	Kenkichi Miyabayashi (Nara Women's University)
	Heavy hadron spectroscopy at Belle
12:15 - 12:45	Susana Coito (Institute of Modern Physics, Chinese Academy of Sciences) Unquenched vector mesons with open beauty
12:45 - 14:00	Lunch

Heavy hadrons and exotics 3 — Chair: H. Kamano

14:00 - 14:45	Hiroyuki Noumi (Osaka University) Hadron spectroscopy at the J-PARC high-momentum beam line
14:45 - 15:30	Masayasu Harada (Nagoya University) Modification of spectrum of heavy-light mesons in nuclear medium
15:30 - 16:00	Junko Yamagata-Sekihara (Research Center for Nuclear Physics, Osaka University) Structure and formation spectra of Dbar meson-nucleus systems
16:00 - 16:30	Coff ee

Heavy hadrons and exotics 4 — Chair: S. Yasui

16:30 - 17:15	Juan Nieves (University of Valencia) Hidden charm and bottom molecular states
17:15 - 18:00	Feng-Kun Guo (Bethe Center for Theoretical Physics) XYZ

3rd March (Tue.)

Hadron scattering and interactions 1 — Chair: T. Doi

09:00 - 09:45	Yoichi Ikeda (RIKEN) Charmed tetraquarks from lattice QCD
09:45 - 10:15	Atsushi Hosaka (Research Center for Nuclear Physics, Osaka University) Charmed baryon structure and productions
10:15 - 10:45	Akira Yokota (Tokyo Institute of Technology) J/psi-bound nuclei and J/psi-nucleon interaction
10:45 - 11:15	Coff ee

Hadron scattering and interactions 2 — Chair: J. Nieves

11:15 - 12:00	Colin Morningstar (Carnegie Mellon University)
	Excited states and scattering phase shifts
12:00 - 12:30	Xiaohai Liu (Tokyo Institute of Technology) Influence of threshold effect induced by heavy flavour meson rescattering
12:30 - 14:00	Lunch

Hadron scattering and interactions 3 — Chair: T. Nakano

14:00 - 14:45	Jacobo Ruiz de Elvira (University of Bonn) Roy-Steiner equations for pi N scattering
14:45 - 15:15	Satoshi Nakamura (Osaka University) Neutrino-induced meson productions
15:15 - 15:45	Coff ee

Hadron scattering and interactions 4 — Chair: T. Hyodo

15:45 - 16:30	Takashi Nakano (RCNP, Osaka University) Hadron Physics with photon beam at LEPS/LEPS2
16:30 - 17:00	Vojtech Krejcirik (Theoretical Research Division, RIKEN Nishina Center) The effective model for $\bar{K}N$ interactions including the $L = 1$ partial wave
17:00 - 17:30	Akinnobu Dote (KEK theory center, Institute for Particle and Nuclear Study (IPNS), High Energy Accelerator Research Organization (KEK)) Investigation of KbarNN resonances with a coupled-channel Complex Scaling Method + Feshbach projection

 $Poster\ session$ —

17:30 - 19:00 room Y206

Poster session

- 1 **Kenji Araki** (Tokyo Institute of Technology) Analysis of quarkonia at finite temperature from complex Borel sum rules
- 2 **Kadir Utku Can** (Tokyo Institute of Technology) Lattice QCD calculation of electromagnetic form factors of charmed baryons
- 3 **Takahiro Doi** (Kyoto University) Contribution to the Polyakov loop from low-lying Dirac mode in QCD
- 4 **Sachiko Fukino** (Tokyo Institute of Technology) Short-range part of YcN interaction in the Quark Cluster Model
- 5 **Ryo Iwami** (Niigata University) Finite density and temperature phase transitions in QCD with many flavors of Wilson fermions
- 6 **Kyoko Katsuyama** (Nara Womens University) The nature of the a1(1260) and the spectral function of the a1 from tau decay
- 7 Xiaohai Liu (Tokyo Institute of Technology) Influence of threshold effect induced by heavy flavour meson rescattering
- 8 **Kenta Miyahara** (Graduate School of Science, Kyoto University) Structure of $\Lambda(1405)$ and construction of antikaon-nucleon potential based on chiral unitary approach
- 9 Seijiro Nishi (Tokyo Institute of Technology) Ω_{bcc} energy spectrum in the Y-string three-body confinement potential
- 10 Keisuke Ohtani (Tokyo Institute of Technology) Modification of nucleon spectral function in the nuclear medium from QCD sum rules
- 11 Shuntaro Sakai (Kyoto University) The η decay into 3π in asymmetric nuclear medium and partial restoration of chiral symmetry in nuclear medium
- 12 **Kei Suzuki** (Tokyo Institute of Technology) Recent progress of QCD sum rules for D meson in extreme environments
- 13 **Takashi Suzuki** (Particle Physics Theory Group, Department of Physics, Osaka university) Extracting the electro-magnetic pion form factor from QCD in a finite volume
- 14 Yoshiki K. Tanaka (The University of Tokyo) Search for eta' mesic nuclei with (p,d) reaction at GSI
- 15 Akio Tomiya (Osaka University)U (1) axial anomaly with chiral fermion at finite temperature
- 16 **Masayuki Wakayama** (Nagoya University) Lattice study of four-quark components of the iso-singlet scalar mesons
- 17 Akira Yokota (Tokyo Institute of Technology) J/psi-bound nuclei and J/psi-nucleon interaction
- 18 **Tetsuya Yoshida** (Tokyo Institute of Technology) *P*-wave heavy baryons with the constituent quark model
- 19 **Ryo Yoshi-ike** (Kyoto University) Magnetic properties of quark matter in the inhomogeneous chiral phase

4th March (Wed.)

QCD phase diagram and heavy ion collisions 1 — Chair: T. Kunihiro		
09:00 - 09:45	Tetsuo Hatsuda (RIKEN) SU(3) Thermodynamics from Yang-Mills Gradient Flow	
09:45 - 10:30	Hiroshi Masui (University of Tsukuba) RHIC Beam Energy Scan	
10:30 - 11:00	Coffee	

QCD phase diagram and heavy ion collisions 2 — Chair: A. Ohnishi

11:00 - 11:45	Jiunn-Wei Chen (NTU) Baryon susceptibilities, nongaussian moments and the QCD critical point
11:45 - 12:15	Kenji Morita (Yukawa Institute for Theoretical Physics, Kyoto University) Lambda-Lambda interaction from relativistic heavy ion collisions
12:15 - 13:30	Lunch

QCD phase diagram and heavy ion collisions 3 — Chair: T. Hatsuda

13:30 - 14:15	Wolfram Weise (Technische Universitaet Muenchen) Chiral Effective Field Theories and Phases of QCD
14:15 - 15:00	Gert Aarts (Swansea University) Two topics in the QGP: diffusion of light quarks and parity doubling in the baryon sector
15:00 - 15:30	Coff ee

Finie density QCD 1 — Chair: G. Aarts

15:30 - 16:15	Philippe de Forcrand (ETH) Progress in simulating lattice QCD at finite density
16:15 - 17:00	Keitaro Nagata (KEK) Canonical partition functions and Lee-Yang zeros in QCD

 $17{:}00\ \text{-}\ 17{:}30 \quad Coffee$

Finie density QCD 2 — Chair: H. Fukaya

17:30 - 18:15	Denes Sexty (Heidelberg University)
	Complex Langevin simulations of non-zero density QCD

5th March (Thu.)

Hadrons in nuclei 1 — Chair: K. Itahashi

09:00 - 09:45	Hideko Nagahiro (Nara Women's University) Hadron properties at finite density and specroscopies of mesic nuclei
09:45 - 10:30	Volker Metag (Giessen University) Meson-nucleus interactions studied in photo nuclear experiments
10:30 - 11:00	Akio Tomiya (Osaka Univesity) U (1) axial anomaly with chiral fermion at finite temperature
11:00 - 11:30	Coff ee

Hadrons in nuclei 2 — Chair: P. Moskal

11:30 - 12:15	Satoshi Yokkaichi (RIKEN) Measurement of vector meson in nuclei at J-PARC E16
12:15 - 12:45	Keisuke Ohtani (Tokyo Institute of Technology) Modification of nucleon spectral function in the nuclear medium from QCD sum rules
12:45 - 14:00	Lunch

Hadrons in nuclei 3 — Chair: H. Nagahiro

14:00 - 14:45	Pawel Moskal (Jagiellonian University) Interaction of eta and eta-prime mesons with nucleons
14:45 - 15:15	Wojciech Krzemien (Jagellonian University) Search for eta-mesic nuclei with WASA-at-COSY
15:15 - 15:45	Coffee

Hadrons in nuclei 4 — Chair: V. Metag

15:45 - 16:30	Kenta Itahashi (RIKEN) Experimental spectroscopy of pionic atoms and eta'-mesic nuclei
16:30 - 17:00	Yoshiki K. Tanaka (The University of Tokyo) Search for eta' mesic nuclei with (p,d) reaction at GSI
17:00 - 17:30	Guido Cossu (High Energy Accelerator Research Organization KEK) Axial symmetry at finite temperature and lowest modes of the Dirac operator

Party —

18:00 - Cafeteria

6th March (Fri.)

Few-nucleon systems and astrophysical constraints — Chair: W. Weise

Closing address

	09:30 - 10:15	Evgeny Epelbaum (University of Bochum) Chiral effective field theory for few-nucleon systems at the precision frontier
	10:15 - 11:00	Takashi Nakamura (Tokyo Institute of Technology) Nuclear matter in neutron stars by experiments and astronomical observations
	11:00 - 11:30	Coff ee
Neu	v approaches 1	— Chair: H. Fukaya
	11:30 - 12:15	Tetsuya Onogi (Osaka University) Position space formulation of fermions on honeycomb lattice
	12:15 - 13:30	Lunch
Neu	v approaches 2	— Chair: T. Onogi
	13:30 - 14:15	Michael Endres (MIT) New avenues for noise reduction in QCD correlation functions
	14:15 - 15:00	Shin Nakamura (Chuo University) Effective Temperature of Non-equilibrium Steady States in AdS/CFT Correspondence
	15:00 - 15:30	Coff ee
New approaches 3 — Chair: S. Aoki		
	15:30 - 16:15	Etsuko Itou (KEK) Quantum entanglement entropy for SU(3) gauge theories
	16:15 - 17:00	Stefan Sint (Trinity College) Symanzik improvement and the gradient flow in lattice QCD
	17:00 - 17:05	Sinya Aoki (Yukawa Institute for Theoretical Physics, Kyoto University)