

International workshop on
“Hadron structure and interaction in dense matter”
(Satellite workshop of QNP2018)

November 11(Sun) - 12(Mon), 2018
KEK Tokai campus, Tokai 1st building, Room 116

Program

===== November 11 (Sun) =====

9:00 (30) Registration

*** Session 1 “Cold and dense matter”**

Chair: Wolfram Weise (Technical University of Munich)

9:30 (25+5) Gordon Baym (University of Illinois)

Quarks in neutron stars

10:00 (25+5) Tetsuo Hatsuda (RIKEN iTHEMS)

Most Strange Dibaryon

10:30 (20) Coffee break

*** Session 2 “Hadrons in nuclei (1)”**

Chair: Osamu Morimatsu (KEK theory center)

10:50 (25+5) Kazuya Aoki (KEK)

Experimental investigation on in-medium spectral change of vector mesons at J-PARC

11:20 (25+5) Satoru Hirenzaki (Nara Women's U.)

Meson Properties at finite density from Meson - Nucleus Systems

11:50 (25+5) Shuntaro Sakai (Institute of Theoretical Physics, Chinese Academy of Science)

Study of η 'N interaction from η/η' production data and in-medium η' properties

12:20 (1:10) Lunch

*** Session 3 “Charm in nuclei”**

Chair: Philipp Gubler (JAEA)

13:30 (25+5) Masayasu Harada (Nagoya University)

Charmed hadrons in Dense matter based on chiral models

14:00 (25+5) Daiki Suenaga (Central China Normal University)

Charmed mesons in cold nuclear matter from chiral effective model

14:30 (25+5) Hiroaki Ohnishi (ELPH, Tohoku university)

Charmed meson in Nuclei at J-PARC

15:00 (20) Coffee break

*** Session 4 “Hypernuclear physics”**

Chair: Akinobu Dote (KEK theory center)

- 15:20 (25+5) Avraham Gal (The Hebrew University)
Unresolved issues in hypernuclear physics
- 15:50 (25+5) Kenji Sasaki (YITP, Kyoto University)
Search for H -dibaryon from lattice QCD
- 16:20 (15+5) Valentina Mantovani Sarti (TUM Munich)
Constraining hyperon-nucleon interaction with femtoscopy in ALICE
- 16:40 (20) Coffee break

*** Session 5 “Hadron Spectroscopy”**

Chair: Takayasu Sekihara (JAEA)

- 17:00 (25+5) Makoto Takizawa (Showa Pharmaceutical University)
Recent results on hadron physics at Belle
- 17:30 (25+5) Emiko Hiyama (Kyushu University/RIKEN)
5-body structure of heavy pentaquark
- 18:00 (15+5) Yasuhiro Yamaguchi (RIKEN)
Short range π J/ψ - $D\bar{D}^$ potential*
- 18:30 (2:00) Party at Room 115 in Tokai 1st building

===== November 12 (Mon) =====

*** Session 6 “Nuclear equation of state”**

Chair: Makoto Oka (JAEA)

- 9:00 (25+5) Wolfram Weise (Technical University of Munich)
Hyperon-nuclear interactions and dense baryonic matter
- 9:30 (25+5) Michio Kohno (RCNP, Osaka University)
Lambda, Sigma, and Xi hyperons in nuclear matter with NLO baryon-baryon interactions in chiral effective field theory
- 10:00 (25+5) Hajime Togashi (RIKEN)
Equation of state of hyperonic nuclear matter and its application to compact astrophysical objects
- 10:30 (20) Coffee break

*** Session 7 “Related Topics”**

Chair: Gordon Baym (University of Illinois)

- 10:50 (25+5) Akira Ohnishi (Yukawa Institute for Theoretical Physics, Kyoto University)
Constraint on higher order symmetry energy parameters and its relevance to neutron star properties
- 11:20 (25+5) Tetsufumi Hirano (Sophia University)
Dynamics of nuclear collisions at relativistic energies
- 11:50 (25+5) Toru Sato (RCNP, Osaka University)

Neutrino reactions in the resonance region

12:20 (25+5) Koutarou Kyutoku (KEK)

Gravitational waves from binary neutron stars

12:50 (1:10) Lunch

*** Session 8 "Hadrons in nuclei (2)"**

Chair: Makoto Takizawa (Showa Pharmaceutical University)

14:00 (25+5) Daisuke Jido (Tokyo Institute of Technology)

Mesons in nuclei and partial restoration of chiral symmetry

14:30 (25+5) Nodoka Yamanaka (IPN Orsay)

Present status of pion-nucleon sigma term

15:00 (25+5) Laura Tolos (University of Frankfurt)

Heavy hadrons in nuclei

15:30 (15+5) Yutaro Iizawa (Tokyo Metropolitan University/Tokyo Institute of Technology)

Spectrum of kaonic atom and kaon-nucleus interaction revisited

15:50 (20) Coffee break

*** Session 9 "Hadrons in nuclei (3)"**

Chair: Atsushi Hosaka (RCNP)

16:10 (25+5) Gyorgy Wolf (MTA Wigner FK)

Charm modification in pion-nucleus reaction

16:40 (25+5) Gergely Fejos (Keio University)

Axial anomaly and hadronic properties in a nuclear medium

17:10 (15+5) Parada Tobel Paraduan Hutauruk (Asia Pacific Center for Theoretical Physics (APCTP))

In-medium modifications kaon electromagnetic form factors

18:00 (75) Transfer to Tsukuba