

**The 10th APCTP-BLTP/JINR-RCNP-RIKEN  
Joint Workshop on Nuclear and Hadronic Physics  
Aug.17 (Wed) - Aug. 21 (Sun), 2016, RIKEN, Wako, Japan**

|         |          |
|---------|----------|
| Plenary | Parallel |
|---------|----------|

| Date/Time | 8/17 (Wed)       |                  | 8/18 (Thu)        |                   | 8/19 (Fri)          |                   | 8/20 (Sat)      | 8/21(Sun)         |
|-----------|------------------|------------------|-------------------|-------------------|---------------------|-------------------|-----------------|-------------------|
|           | Okochi Hall      |                  | Okochi Hall       |                   | Okochi Hall         |                   | Okochi Hall     | Okochi Hall       |
|           | Opening          |                  |                   |                   |                     |                   |                 |                   |
| 9:00      | Lee Chang-Hwan   |                  | Geng Lisheng      |                   | Sakhiyev Sayabek    |                   | Jolos Rostislav | Rogachevskiy Oleg |
| 9:30      | Voronov Victor   |                  | Ikeda Yoichi      |                   | KIM Wooyoung        |                   | Kwak Kyujin     | Kim Yongsun       |
| 10:00     | Bingsong Zou     |                  | Cheoun Myung-Ki   |                   | Molochkov Alexander |                   | Antonenko       | Toneev Viacheslav |
| 10:30     | Break            |                  | Break             |                   | Break               |                   | Break           | Break             |
| 11:00     | Hyodo Tetsuo     |                  | Myo Takayuki      |                   | Asano Hidemitsu     |                   | Hu Jinniu       | Sekihara Takayasu |
| 11:30     | Isaka Masahiro   |                  | REN Zhongzhou     |                   | Tanida Kiyoshi      |                   | Togashi Hajime  | Arbuzov Andrei    |
| 12:00     | Lunch            |                  |                   |                   |                     |                   |                 |                   |
|           | Okochi Hall      | Seminar room A   | Okochi Hall       | Seminar room A    | Okochi Hall         | Seminar room A    |                 |                   |
|           | Parallei 1       | Paralle 2        | Parallei 1        | Paralle 2         | Parallei 1          | Paralle 2         |                 |                   |
| 13:30     | Chen Hua-Xing    | Ershov Sergey    | Lu Yu             | Andreev Alexander | Lee Hee-Jung        | Adamian Gurgen    |                 | Funaki Yasuro     |
| 14:00     | Takeuchi Sachiko | Lyu Mengjia      | Suenaga Daiki     | Liang Haozhao     | Shuntaro Sakai      | Xu Chang          |                 | Watanabe Shin     |
| 14:30     | Nagahiro Hideko  |                  | Yakhshiev Ulugbek | Kim Kyungsik      | Ryu Huiyoung        | Bondarenko Sergey |                 | Closing           |
| 15:00     | break            |                  | break             |                   | break               |                   |                 |                   |
| 15:30     | Liu Xiaohai      | Xian-Rong Zhou   | Issadykov Aidos   | Arbuzova Elena    | Ezoe Takashi        | Liu Lang          |                 |                   |
| 16:00     | Kim Sangho       | Kawaguchi Mamiya | Gladyshev Alexey  | Matsudo Ryutarō   | Nochi Kazuki        | HA Eun Ja         |                 |                   |
| 16:30     | break            |                  | break             |                   | break               |                   |                 |                   |
| 17:00     | Can Kadir Utku   | Kondo Kei-Ichi   | Kamiya Yuki       | Fejos Gergely     | Xia Cheng-Jun       | Kolganova Elena   |                 |                   |
| 17:30     | Yamanaka Nodoka  | Kochelev Nikolay | Tsuchida Yujiro   | Kaptor Leonid     | Lee Kang Seog       | Slyamov Azat      |                 |                   |
| 18:00     |                  |                  |                   |                   | Banquet             |                   |                 |                   |

|          |    |   |    |   |    |   |   |   |    |
|----------|----|---|----|---|----|---|---|---|----|
| Plenary  | 5  | 0 | 5  | 0 | 5  | 0 | 5 | 7 | 27 |
| Paralell | 7  | 6 | 7  | 7 | 7  | 7 | 0 | 0 | 41 |
| Total    | 12 | 6 | 12 | 7 | 12 | 7 | 5 | 7 | 68 |

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**Aug. 17 (Wed)**

|            |                                  |            |   |
|------------|----------------------------------|------------|---|
| Plenary    | Okochi hall                      |            |   |
| Chair:     | ABC                              | xyz        |   |
| 9:00       | Lee                              | Chang-Hwan | Direct Photon Elliptic Flow in Heavy Ion Collisions   |
| 9:30       | Voronov                          | Victor     | Ground state correlations and electromagnetic moments of low-lying states in odd nuclei                   |
| 10:00      | Zou                              | Bingsong   | Evidence for Some New Hyperon Resonances - to be Checked by Kaon Beam Experiments at JPARC                |
| 10:30      | Break                            |            |   |
| Chair:     | ABC                              | XYZ        |   |
| 11:00      | Hyodo                            | Tetsuo     | Compositeness of hadrons from effective field theory  |
| 11:30      | Isaka                            | Masahiro   | Many-body force effects on hypernuclei with antisymmetrized molecular dynamics                            |
| 12:00      | Lunch                            |            |   |
| Parallel 1 | Okochi hall                      |            |   |
| Chair:     | ABC                              | xyz        |   |
| 13:30      | Chen                             | Hua-Xing   | Hidden-charm pentaquark in QCD sum rules  |
| 14:00      | Takeuchi                         | Sachiko    | The LHCb $c\bar{c}$ -pentaquarks are the sign of the color-octet baryons?                                 |
| 14:30      | Nagahiro                         | Hideko     | Decays of charmed baryons through pion emission in the quark model  |
| 15:00      | Break                            |            |   |
| Parallel 2 | Seminar room A in Laser building |            |   |
| Chair:     | ABC                              | xyz        |   |
| 13:30      | Ershov                           | Sergey     | Cluster structure of light nuclei   |
| 14:00      | Lyu                              | Mengjiao   | Investigation of Be isotopes with the nonlocalized clustering   |
| 14:30      | —                                | —          | —   |
| 15:00      | Break                            |            |   |
| Parallel 1 | Okochi hall                      |            |   |
| Chair:     | ABC                              | xyz        |   |
| 15:30      | Liu                              | Xiaohai    | Understanding the nature of heavy pentaquarks and searching for them in pion induced reactions            |
| 16:00      | Kim                              | Sangho     | Heavy pentaquark states $P_c(4380)$ and $P_c(4450)$ in the $J/\psi$ production induced by pion beams      |
| 16:30      | Break                            |            |   |
| Parallel 2 | Seminar room A in Laser building |            |   |
| Chair:     | ABC                              | xyz        |   |
| 15:30      | Zhou                             | XiangRong  | Hypernuclear structure in the framework of Skyrme Hartee-Fock approximation                               |
| 16:00      | Kawaguchi                        | Mamiya     | Vector meson masses from a hidden local symmetry in a constant magnetic field                             |
| 16:30      | Break                            |            |   |
| Parallel 1 | Okochi hall                      |            |   |
| Chair:     | ABC                              | xyz        |   |
| 17:00      | Can                              | Kadir Utku | $\Sigma_c(2455)$ decay in Lattice QCD   |
| 17:30      | Yamanaka                         | Nodoka     | Nucleon scalar, axial and tensor charges with dynamical overlap quarks                                    |
| Parallel 2 | Seminar room A in Laser building |            |   |
| Chair:     | ABC                              | xyz        |   |
| 17:00      | Fejos                            | Gergely    | Thermal evolution of the axial anomaly  |
| 17:30      | Kaptar                           | Leonid     | Mesons and Quark Propagators at Zero and Finite Temperatures in a Dyson-Schwinger-Bethe-Salpeter Approach |

Aug. 18 (Thu)

|            |                                  |           |  |
|------------|----------------------------------|-----------|--|
| Plenary    | Okochi hall                      |           |  |
| Chair:     | ABC                              | xyz       |  |
| 9:00       | Geng                             | Lisheng   | Hyperon-nucleon scattering at leading order in a covariant chiral effective field theory approach  |
| 9:30       | Ikeda                            | Yoichi    | Charm hadron interactions from lattice QCD   |
| 10:00      | Cheoun                           | Myung-Ki  | Neutrinos in the Nuclear Physics   |
| 10:30      | Break                            |           |  |
| Chair:     | ABC                              | xyz       |  |
| 11:00      | Myo                              | Takayuki  | Tensor and short-range correlations in light nuclei with tensor-optimized antisymmetrized molecular dynamics                               |
| 11:30      | REN                              | Zhongzhou | Half-lives of alpha decay of heavy and superheavy nuclei   |
| 12:00      | Lunch                            |           |  |
| Parallel 1 | Okochi hall                      |           |  |
| Chair:     | ABC                              | xyz       |  |
| 13:30      | Lu                               | Yu        | Coupled Channel Effect for the Bottomonium with Realistic Wave Functions   |
| 14:00      | Suenaga                          | Daiki     | Title:Dbar mesons as probes for exploring the chiral symmetry in a cold nuclear matter   |
| 14:30      | Yakhshiev                        | Ulugbek   | Heavy quarkonium states from the instanton liquid model  |
| 15:00      | Break                            |           |  |
| Parallel 2 | Seminar room A in Laser building |           |  |
| Chair:     | ABC                              | xyz       |  |
| 13:30      | Andreev                          | Alexander | Light charged particles emission in spontaneous ternary fission of $^{252}\text{Cf}$   |
| 14:00      | Liang                            | Haozhao   | Relativistic Brueckner-Hartree-Fock for Finite Nuclei  |
| 14:30      | Kim                              | Kyungsik  | Influence of axial mass and strange axial form factor on neutrino-nucleus  |
| 15:00      | Break                            |           |  |
| Parallel 1 | Okochi hall                      |           |  |
| Chair:     | ABC                              | xyz       |  |
| 15:30      | Issadykov                        | Aidos     | Angular observables and differential branching fraction of the decay $B_{s} \rightarrow \phi \mu^{+} \mu^{-}$ in the covariant quark model |
| 16:00      | Gladyshev                        | Alexey    | TBA  |
| 16:30      | Break                            |           |  |
| Parallel 2 | Seminar room A in Laser building |           |  |
| Chair:     | ABC                              | xyz       |  |
| 15:30      | Arbuzova                         | Elena     | Kinetics of spontaneous baryogenesis   |
| 16:00      | Matsudo                          | Ryutaro   | Gauge-covariant decomposition and magnetic monopole for $G(2)$ Yang-Mills field  |
| 16:30      | Break                            |           |  |
| Parallel 1 | Okochi hall                      |           |  |
| Chair:     | ABC                              | xyz       |  |
| 17:00      | Kamiya                           | Yuki      | Generalized weak-binding relations in effective field theory   |
| 17:30      | Tsuchida                         | Yujiro    | Compositeness of hadron resonances with finite volume effect   |
| Parallel 2 | Seminar room A in Laser building |           |  |
| Chair:     | ABC                              | xyz       |  |
| 17:00      | Kondo                            | Kei-Ichi  | Higgs mechanism without spontaneous symmetry breaking and quark  |
| 17:30      | Kochelev                         | Nikolay   | Glueballs  |

Aug. 19 (Fri)

|                   |                                  |           |  |
|-------------------|----------------------------------|-----------|--|
| <b>Plenary</b>    | Okochi hall                      |           |  |
| Chair:            | ABC                              | xyz       |  |
| 9:00              | Sakhiyev                         | Sayabek   | Research activities at the Institute of Nuclear Physics  |
| 9:30              | Kim                              | Wooyoung  | Deeply virtual $\pi^0$ and eta production with CLAS : Transversity GPDs                                |
| 10:00             | Molochkov                        | Alexander | The surface operator dependence in the confinement and deconfinement phases                            |
| 10:30             | Break                            |           |  |
| Chair:            | ABC                              | xyz       |  |
| 11:00             | Asano                            | Hidemitsu | Exploring diquark correlations by charmed baryon spectroscopy at J-PARC                                |
| 11:30             | Tanida                           | Kiyoshi   | Charmed baryons at Belle   |
| 12:00             | Lunch                            |           |  |
| <b>Parallel 1</b> | Okochi hall                      |           |  |
| Chair:            | ABC                              | xyz       |  |
| 13:30             | Lee                              | Hee-Jung  | Gluonic structure of the constituent quark   |
| 14:00             | Shuntaro                         | Sakai     | Study of the eta'N interaction in the eta'-photoproduction   |
| 14:30             | RYU                              | Huiyoung  | Hyperon contribution in the photoproduction of Omega baryon  |
| 15:00             | Break                            |           |  |
| <b>Parallel 2</b> | Seminar room A in Laser building |           |  |
| Chair:            | ABC                              | xyz       |  |
| 13:30             | Adamian                          | Gurgen    | Energy-dependence of mass and charge distributions in fission of heavy nuclei                          |
| 14:00             | Xu                               | Chang     | Nuclear Symmetry Energy and its Density Dependence   |
| 14:30             | Bondarenko                       | Sergey    | FEW-NUCLEON SYSTEMS IN THE BETHE-SALPETER APPROACH   |
| 15:00             | Break                            |           |  |
| <b>Parallel 1</b> | Okochi hall                      |           |  |
| Chair:            | ABC                              | xyz       |  |
| 15:30             | Ezoe                             | Takashi   | Kaon-Nucleon systems and their interactions in the Skyrme model  |
| 16:00             | Nochi                            | Kazuki    | Determination of charmonium potential by using Bethe-Salpeter amplitude on the lattice                 |
| 16:30             | Break                            |           |  |
| <b>Parallel 2</b> | Seminar room A in Laser building |           |  |
| Chair:            | ABC                              | xyz       |  |
| 15:30             | Liu                              | Lang      | Ab initio Monte Carlo shell model for light nuclei   |
| 16:00             | Ha                               | Eun Ja    | Gamow-Teller transitions in Mg and Ni isotopes by using the deformed QRPA with np-pairing correlations |
| 16:30             | Break                            |           |  |
| <b>Parallel 1</b> | Okochi hall                      |           |  |
| Chair:            | ABC                              | xyz       |  |
| 17:00             | Xia                              | Cheng-Jun | Strange quark matter objects with two types of surface treatments                                      |
| 17:30             | Lee                              | Kang Seog | Blast-wave model with two freeze-outs  |
| <b>Parallel 2</b> | Seminar room A in Laser building |           |  |
| Chair:            | ABC                              | xyz       |  |
| 17:00             | Kolganova                        | Elena     | Efimov states in asymmetric trimers  |
| 17:30             | Slyamov                          | Azat      | Optical diffraction from deterministic and random fat fractals   |
| Banquet           |                                  |           |  |

**Aug. 20 (Sat)**

|                |             |           |  |
|----------------|-------------|-----------|--|
| <b>Plenary</b> | Okochi hall |           |  |
| Chair:         | ABC         | xyz       |  |
| 9:00           | Jolos       | Rostislav | Structure of the Superheavy nuclei   |
| 9:30           | Kwak        | Kyujin    | Neutrino Transport Equations Including Neutrino Oscillation                              |
| 10:00          | Antonenko   | Nikolay   | Double-folding nucleus-nucleus potential   |
| 10:30          | Break       |           |  |
| Chair:         | ABC         | xyz       |  |
| 11:00          | Hu          | Jinniu    | The massive neutron star in relativistic mean field theory with high density correlation |
| 11:30          | Togashi     | Hajime    | Microscopic equation of state for hot dense matter in core-collapse supernovae           |
| 12:00          | Lunch       |           |  |

**Aug. 21 (Sun)**

|                |              |            |  |
|----------------|--------------|------------|--|
| <b>Plenary</b> | Okochi hall  |            |  |
| Chair:         | ABC          | xyz        |  |
| 9:00           | Rogachevskiy | Oleg       | Heavy ion experiments at NICA JINR   |
| 9:30           | Kim          | Yongsun    | Heavy quark measurements including quarkonia and open B mesons                                 |
| 10:00          | Toneev       | Viacheslav | Directed flow of hadrons in asymmetric HI collisions   |
| 10:30          | Break        |            |  |
| Chair:         | ABC          | xyz        |  |
| 11:00          | Sekihara     | Takayasu   | On the structure observed in the in-flight $^3\text{He} (K^-, \Lambda p) n$ reaction at J-PARC |
| 11:30          | Arbuzov      | Andrei     | High-precision description of radiative muon and tau lepton decays                             |
| 12:00          | Lunch        |            |  |
| Chair:         | ABC          | xyz        |  |
| 13:30          | Funaki       | Yasuro     | Clusters in Carbon-13-Lambda   |
| 14:00          | Watanabe     | Shin       | Four-body dynamics of $^6\text{Li}$ elastic scattering   |
| 14:30          | Closing      |            |  |