

Parallel Session: **Nuclear Physics**

Morning Session:

Date: **October 21**

| chair       | <b>(Nuclear structure I)</b> Vandana Nanal (TIFR) |                                                                                                                                                   |
|-------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:50-11:15 | Meng Wang (IMP)                                   | Mass measurements of short-lived nuclides using Brho-defined IMS at CSRe (invited)                                                                |
| 11:15-11:40 | Fangqi Chen (Lanzhou Univ.)                       | Origin of the low-energy enhancement in the $\gamma$ -strength function (invited)                                                                 |
| 11:40-11:55 | Hiroshi Watanabe (IBS)                            | Fast-timing lifetime measurements of exotic nuclei with a large LaBr <sub>3</sub> (Ce) array: The first results from the IDATEN project (invited) |
| 11:55-12:10 | Yosuke Kondo (RIKEN)                              | Exploring nuclear shell structure toward neutron-rich extremes at RIBF-SAMURAI (invited)                                                          |

Date: **October 23**

| chair       | <b>(Nuclear applications)</b> Shunji Nishimura (RIKEN) |                                                                                                    |
|-------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 10:50-11:15 | Ruirui Xu (CIAE)                                       | Research on nuclear reaction data at CNDC and next CENDL (invited)                                 |
| 11:15-11:40 | Atsushi Yamaguchi (RIKEN)                              | Trapping and laser spectroscopy of triply charged thorium-229 isomer for a nuclear clock (invited) |
| 11:40-12:05 | Kwang-Yong Choi (Sungkyunkwan Univ.)                   | $\beta$ -NMR spectroscopy: principles and applications in modern materials research (invited)      |

Date: **October 24**

| chair       | <b>(Hot &amp; dense matter II)</b> Chiho Nonaka (Hiroshima Univ.) |                                                                                  |
|-------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 09:00-09:25 | MinJung Kweon (Inha Univ.)                                        | Overview of ALICE (invited)                                                      |
| 09:25-09:50 | Yongsun Kim (Sejong Univ.)                                        | Recent quarkonia studies in heavy ion collisions at the CMS experiment (invited) |
| 09:50-10:05 | Jonghan Park (Jeonbuk National Univ.)                             | Recent heavy-flavour measurements with ALICE (invited)                           |

Afternoon Session:

Date: **October 20**

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| chair       | <b>(Nuclear reactions)</b> Tomohiro Uesaka (RIKEN)                                |                                                                                                                    |
| 14:00-14:25 | Hongna Liu<br>(Beijing Normal Univ.)                                              | Study of nuclear correlations using quasi-free scattering reactions (invited)                                      |
| 14:25-14:50 | Sunji Kim<br>(IBS)                                                                | Direct reaction studies of light nuclei in inverse kinematics (invited)                                            |
| 14:50-15:15 | Akane Sakaue<br>(Univ. of Tokyo)                                                  | Experimental study of double Gamow-Teller transition by using double charge exchange reaction (invited)            |
| 15:15-15:30 | Qian Wu<br>(Nanjing Univ.)                                                        | Study of fusion processes in the dtmu molecular (contributed)                                                      |
| 15:30-16:00 | Break                                                                             |                                                                                                                    |
| chair       | <b>(Nuclear facilities &amp; instrumentations)</b><br>Byungsik Hong (Korea Univ.) |                                                                                                                    |
| 16:00-16:20 | Wenlong Zhan<br>(IMP)                                                             | Construction of nuclear research center in Huizhou-2025 (invited)                                                  |
| 16:20-16:40 | Tomohiro Uesaka (RIKEN)                                                           | The RIBF facility and its upgrade project (invited)                                                                |
| 16:40-17:00 | Minsik Kwag<br>(IBS)                                                              | Recent activities of KoBRA and NDPS at RAON (invited)                                                              |
| 17:00-17:20 | Takashi Kobayashi<br>(KEK)                                                        | J-PARC status and future (invited)                                                                                 |
| 17:00-17:40 | Taku Gunji<br>(Univ. of Tokyo)                                                    | The Electron-Ion Collider: A next-generation facility for unraveling the quark-gluon structure of matter (invited) |

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| chair       | <b>(Nuclear Structure II)</b> Yifei Niu (Lanzhou Univ.) |                                                                                                                              |
| 14:00-14:25 | Pengwei Zhao<br>(Peking Univ.)                          | Machine learning for Ab initio studies of light atomic nuclei (invited)                                                      |
| 14:25-14:50 | Rudrajyoti Palit<br>(TIFR)                              | Probing nuclear structure using lifetime and Coulomb excitation measurements with Digital INGA (invited)                     |
| 14:50-15:05 | Sushil Sharma<br>(Jagiellonian Univ.)                   | Recent advances in fundamental physics with the multiphoton J-PET detector (invited)                                         |
| 15:05-15:20 | Jianwei Cai<br>(IMP)                                    | Search for the isoscalar neutron-proton pair condensation in $^{120}\text{Sn}$ using ( $^4\text{He}$ , $^6\text{Li}$ ) probe |

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|             |                                        | (contributed)                                                                                                              |
| 15:30-16:00 | Break                                  |                                                                                                                            |
| chair       | (Nuclear astrophysics) Bing Guo (CIAE) |                                                                                                                            |
| 16:00-16:25 | Yangping Shen<br>(CIAE)                | Direct measurement of the $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ reaction at JUNA, results and perspectives (invited) |
| 16:25-16:50 | Shunji Nishimura<br>(RIKEN)            | Exploring r-process signatures in neutron-rich nuclei (invited)                                                            |
| 16:50-17:15 | Sunghoon (Tony) Ahn<br>(IBS)           | $\alpha$ p-explorer and n*-explorer: New frontiers in nuclear astrophysics at CENS (invited)                               |
| 17:15-17:30 | Meng-Ru Wu<br>(Academia Sinica)        | Neutrino and nucleosynthesis in stella explosions (invited)                                                                |

Date: **October 23**

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| chair       | (Hot & dense matter I) Po-Ju Lin (National Central Univ.)     |                                                                                                                                                                                       |
| 14:00-14:25 | Chiho Nonaka<br>(Hiroshima Univ.)                             | Theoretical studies of hot and dense matter (invited)                                                                                                                                 |
| 14:25-14:50 | Qinghua Xu<br>(Shandong Univ.)                                | Overview of STAR (invited)                                                                                                                                                            |
| 14:50-15:15 | Weihu Ma<br>(Fudan Univ.)                                     | The overview of the sPHENIX experiment at RHIC (invited)                                                                                                                              |
| 15:15-15:30 | Kadyr G. Gulamov<br>(The Council of Physicists of Uzbekistan) | Observation of alignment in the azimuth-pseudorapidity matrix in central collisions of $^{32}\text{S}$ nuclei with heavy nuclei of emulsion at $\sqrt{s_{NN}} = 20$ GeV (contributed) |
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| 15:30-16:00 | Break                                                         |                                                                                                                                                                                       |
| chair       | (Hadrons) Yongsun Kim (Sejong Univ.)                          |                                                                                                                                                                                       |
| 16:00-16:25 | Shunzo Kumano<br>(IMP/KEK)                                    | Possible studies on high-energy hadron physics at J-PARC (invited)                                                                                                                    |
| 16:25-16:50 | Shin Hyung Kim<br>(Kyungpook National Univ.)                  | Exotic hadron physics with the hyperon spectrometer at J-PARC (invited)                                                                                                               |
| 16:50-17:05 | Po-Ju Lin<br>(NCU)                                            | GPD program at COMPASS (invited)                                                                                                                                                      |