

| Halo Week 2022, July 10th-15th, Bergen, Norway - Programme |  |  |   |  |  |
|--|--|--|---|--|--|
| 17:00  | Sunday July 10th - Registration and Reception  |  |   |  |  |
|  | Monday   | Tuesday  | Wednesday   | Thursday   | Friday   |
| 8:45   | Jan Vaagen, Organisers, <b>Chair: Gaute Hagen</b>  | <b>Chair: Isao Tanihata</b>  | Boat leaves at 9:00   | <b>Chair: Hans-Werner Hammer</b>   | <b>Chair: Carlos Bertulani</b>   |
| 9:00   | Laszlo Csernai Laser induced inertial Confinement Fusion and its connection to Halo nuclei | Meytal Duer<br>The search for the tetra-neutron  | Excursion   | Petr Navratil<br>Ab initio investigations of halo states in light nuclei                           | Grigory Rogachev<br>Exploring light drip-line nuclei with active targets |
| 9:30   | Haik Simon<br>Halo studies at GSI - present and future                                     | Alexander Volya<br>Structure and dynamics of open quantum systems                            |   | Marco Knösel<br>Status of nn scattering-length experiment  | Rituparna Kanungo<br>Unveiling properties of Borromean halos             |
| 10:00  | Daniel Bazin<br>Drip line program at FRIB/MSU  | Roman Gernhäuser<br>Indications for a bound tetra-neutron                                    |   | Matthias Göbel<br>2n-halo nuclei and the nn scattering length                                      | Jason Holt<br>Explorations of the neutron dripline with IMSRG            |
| 10:30  | <b>Coffee break</b>  | <b>Coffee break</b>  |   | <b>Coffee break</b>  | <b>Coffee break</b>  |
| 11:00  | Daniel Phillips<br>EFT for Coulomb dissociation of 2n halos nuclei                         | Manuel Caamaño<br>Ground state properties of superheavy <sup>7</sup> H                       |   | Thomas Papenbrock<br>Progress in coupled-cluster computations                                      | Isao Tanihata, Concluding Remarks  |
| 11:30  | Frank Wienholtz<br>The PUMA experiment at CERN   | Valerian Girard-Alcindor<br>New narrow resonances in the unbound <sup>15</sup> F             |   | Dominic Rossi<br>Low-energy dipole response of <sup>6,8</sup> He                                   |  |
| 12:00  | Yelei Sun<br>Interaction cross section of halo hypernuclei halos                           | Kevin Fossez<br>DMRG description of the isotopes 28-33F                                      |   | Francesca Bonaiti<br>Ground and dipole-excited states of n-rich <sup>8</sup> He                    | <b>Lunch</b>   |
| 12:30  | <b>Lunch</b>   | <b>Lunch</b>   |   | <b>Lunch</b>   |  |
| 14:00  | <b>Chair: Tom Aumann</b><br>Klaus Blaum<br>Precision Penning-trap mass spectrometry        | <b>Chair: Heiko Scheit</b><br>Miguel Marques<br>The emission of two, three and four neutrons |   | <b>Chair: Navin Alahari</b><br>Wilfried Nörtershäuser<br>Nuclear Charge Radii from Boron to Carbon |  |
| 14:30  | Anthony Kuchera<br>The Future of MoNA at FRIB  | Oliver Sorin<br>Multi-neutron resonances and nn correlations                                 |   | Wael Elkamhawy<br>EM properties and beta-p decay of 1n-Halo nuclei                                 |  |
| 15:00  | Dean Lee<br>Lattice simulations for <sup>12</sup> C states and other nuclei                | Sebastian Dietz<br>Few-neutron resonances in pionless EFT                                    | Diasuke Suzuki<br>Spectroscopy of <sup>8</sup> C beyond the proton dripline |  |  |
| 15:30  | <b>Coffee break</b>  | <b>Coffee break</b>  | <b>Coffee break</b>   |  |  |
| 16:00  | Yosuke Kondo<br>Experimental studies near and beyond the dripline                          | Yuki Kubota<br>Surface localization of the dineutron in nuclei                               | Andreas Ekstrom<br>Predicting properties at the limits of stability         | End of workshop  |  |
| 16:30  | Sonja Storck<br>Lifetime Measurement of the <sup>26</sup> O g.s. at SAMURAI                | Alejandro Kievsky<br>Nuclear levels from the unitary limit                                   | Madalina Enciu (Ravar)<br>Magicity of N=32 studied via the (p,pn) reaction  | <b>Breakout Discussion Sessions</b>  |  |
| 17:00  | <b>Discussion Session</b>  | Deuk Soon Ahn<br>Location of the Neutron Dripline at F, Ne, and Na                           | <b>Discussion Session</b>   |  |  |
| 17:30  | <b>Discussion Session</b>  | <b>Discussion Session</b>  | <b>Discussion Session</b>   |  |  |
| 19:00  |  |  | <b>Conference Dinner</b>  |  |  |