

1st RAON User Workshop

First Circular

Date: April 3 – 5, 2019

Venue: Institute for Basic Science, Daejeon, Korea

Dear Colleagues,

This is the first circular to announce the first RAON User Workshop organized and hosted by the 'RAON User Liaison Center' and the 'RAON Users Association'. The workshop will serve as an international forum to discuss the science opportunities to be explored by using seven experimental systems of RAON.

RAON is a Rare isotope Accelerator complex for ON-line experiments expected to be completed by the end of 2021 in Korea through the RISP of the Institute for Basic Science (IBS). By employing both Isotope Separation On-Line (ISOL) method driven by a 70 kW cyclotron and In-Flight Fragmentation (IFF) method powered by 200 MeV/u uranium beams, RAON will provide very unique collection of world-class rare isotope beams. Pioneering researches will be performed in many areas of basic and applied sciences including nuclear, atomic, condensed matter, and biomedical sciences. (Please see the website <https://risp.re.kr/> or a separate, attached file for a brief overview of RAON.)

The current status of the RAON and the experimental systems will be presented, and new science opportunities will be discussed among the potential users. We hope to promote international collaboration among the potential users and expand the user community of RAON.

The topics of the workshop include the following experimental systems and the equipment related to these:

- a. KOBRA: KOrea Broad acceptance Recoil spectrometer and Apparatus
- b. LAMPS: Large Acceptance Multi-Purpose Spectrometer
- c. HPMMS: High Precision Mass Measurement System (Multi-Reflection Time-of-Flight)
- d. CLS: Collinear Laser Spectroscopy
- e. μ SR: Muon Spin Rotation/Relaxation/Resonance
- f. NDPS: Nuclear Data Production System
- g. BIS: Beam Irradiation System (Bio-Medical Research)
- h. Nuclear Theory

There will be both oral and poster presentations. Oral presentations are for invited speakers only, and we welcome contributions for poster presentations. Those who would like to contribute poster presentations are asked to submit an abstract to workshop@nuclearemail.org not later than March 8.

Detailed information of the workshop including the list of invited speakers will be announced in the second circular and the workshop web site. If you have any questions, please contact organizers by email.

Workshop web site: <https://indico.ibs.re.kr/event/285/>

email: workshop@nuclearemail.org

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