

762nd ASRC Seminar

Date: 令和元年7月4日(木)

10:30~

Location: 第1センター会議室(103会議室)

Speaker: Prof. Seung-Woo Hong

(RAON User Liaison Center & Sungkyunkwan Univ.)

Title: RAON - Rare isotope Accelerator complex
for ON-line experiments

要旨:

The Institute for Basic Science (IBS), located in Daejeon, Korea has about 30 Research Centers, one of which is the Rare Isotope Science Project (RISP). The accelerator complex for RISP was named RAON, "Rare isotope Accelerator complex for ON-line experiments". The goal of RAON is to produce a variety of stable and rare isotope beams that can be used for basic science research and applications. The RAON is under construction to accelerate ions from protons to uranium up to 600 MeV and 200 MeV/u, respectively. The RAON will produce rare isotopes by using both In-Flight (IF) fragmentation and Isotope Separation On-Line (ISOL) methods. There are seven experimental systems that are under construction, which include KOBRA, LAMPS, MMS, CLS, muSR, NDPS and BIS. KOBRA (Korea Broad acceptance Recoil spectrometer and Apparatus) is a low energy RIB experimental system. LAMPS (Large Acceptance. Multi-Purpose Spectrometer) is a high energy RIB experimental system. MMS (Mass Measurement System) is a high precision mass measurement system. NDPS (Nuclear Data Production System) is an experimental system for nuclear data.

In the seminar, outline of the facility and status of the experimental systems will be presented.

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