

## **PROGRESS OF THE RARE ISOTOPE SCIENCE PROJECT IN KOREA**

Sunchan Jeong <sup>1</sup>

<sup>1</sup>Rare Isotope Science Project (RISP), Institute for Basic Science (IBS),  
70, Yuseong-daero 1689-gil, Yuseong-gu, Daejeon 340-47, Korea

Rare Isotope Science Project (RISP) of Institute for Basic Science (IBS) has been initiated for constructing a heavy ion linear accelerator complex in Daejeon, Korea. The goal of the accelerator complex, named RAON meaning joyful and happy in Korean, is to produce variety of stable and rare isotope (RI) beams for researches in basic science and various applications. With a 400-kW superconducting heavy ion linear accelerator as the workhorse, the facility is to establish the In-flight Fragment (IF) and Isotope Separation On-Line (ISOL) facilities to most effectively produce rare isotope (RI) beams over the world. Prototyping of major accelerator components has been almost finished and their test is going on. Following a brief overview of the project and facility RAON, the progress on the development of some components, especially important for an accelerator system to be integrated at an off-site test facility for demonstrating the successful operation of the front-end of the RAON, is presented.