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Current status of Isotope Separation On-Line (ISOL) facility at RAON

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The two types of advanced high power Rare Isotope production facilities, Isotope Separation On-Line (ISOL) and In-Flight (IF) Fragment separator, are being developed by Rare Isotope Science Project (RISP). The installation of ISOL facility is going to start from year 2019 and its commissioning will be finished by 2021 at Rare Isotope Accelerator complex for ON-line experiments, RAON, in Korea. The main systems of ISOL comprise (or consist) of 70 MeV proton cyclotron driver, Target/Ion Source (TIS) including remote handling system, beam separation and transportation system and EBIS type charge breeder. The first goal of TIS development in RISP is providing about 10^8 pps of Sn isotope using high power U target to very low energy experimental hall. Here, the current status of development of ISOL facility will be presented.

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