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Status and future scientific program of RAON

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A new radioactive-ion-beam (RIB) accelerator complex RAON is under construction in Korea. RAON will be equipped with both ISOL (Isotope Separation On-Line) and IF (In-flight Fragmentation) systems and explore the possibility to combine them to provide more neutron-rich ion beams than any single mode. The ISOL and low-energy systems were completed in 2022 and the high-energy section will be finished in around 2030. As the experimental setups for nuclear physics, KOBRA (Korea Broad acceptance Recoil spectrometer and Apparatus) was constructed for nuclear structure and nuclear astrophysics using RIBs with a few tens MeV per nucleon. In addition, LAMPS (Large-Acceptance Multipurpose Spectrometer) is being constructed at the high-energy experimental area. In this presentation we summarize the status and prospects of the RAON facility. The status and research plan for KOBRA and LAMPS will be also described.

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