

# Commissioning of the RAON Superconducting Linac

*Thursday 29 August 2024 11:00 (30 minutes)*

The linear accelerator RAON consists of an injector and a superconducting linac. The injector contains two ECR ion sources and an RFQ. These ion sources produce various ions from protons ( $A/Q=1$ ) to uranium ( $A/Q=7.2$ ), with an energy of 10 keV/u. The RFQ accelerates these ions to an energy of 500 keV/u. The superconducting accelerator consists of two types of superconducting cavities (QWR and HWR). The linac is designed to accelerate uranium beams to 18.5 MeV/u. The beam commissioning of the injector system started in August 2021 with various ions (argon, oxygen, neon, helium, proton). The beam commissioning of the superconducting linac started in October 2022 with argon beams. This work summarizes the current status of the beam commissioning of the RAON linac.

## Footnotes

## Funding Agency

**Primary author:** JANG, Ji-Ho (Institute for Basic Science)

**Co-authors:** JEON, Dong-O (Institute for Basic Science); JIN, Hyunchang (Institute for Basic Science); KIM, Hyung Jin (Institute for Basic Science)

**Presenter:** JANG, Ji-Ho (Institute for Basic Science)

**Session Classification:** Main Session THY

**Track Classification:** MC3: Proton and Ion Accelerators and Applications: MC3.2 Ion linac projects