

# Energy upgrade options of KOMAC 100 MeV linac

*Tuesday 27 August 2024 16:00 (2 hours)*

An energy upgrade of the existing 100 MeV proton linear accelerator is considered at Korea Multi-purpose Accelerator Complex (KOMAC). 1 GeV proton linac for spallation neutron source is planned through 200 MeV linac upgrade as a near term project. Two options are considered for 200 MeV linac structure, one is a superconducting linac based on the half-wave resonator (HWR) and the other is a normal conducting linac based on separate drift tube linac (SDTL). In this paper, two options are presented and compared.

## Footnotes

## Funding Agency

This work was supported through the KOMAC operation fund of KAERI by Korean Government (MSIT, KAERI ID: 524320-24)

**Primary author:** KWON, Hyeok-Jung (Korea Multi-purpose Accelerator Complex)

**Co-authors:** KIM, Dong-Hwan (Korea Multi-purpose Accelerator Complex); KIM, Han-Sung (Korea Atomic Energy Research Institute); YUN, Sang-Pil (Korea Multi-purpose Accelerator Complex); MOON, Seok Ho (Korea Multi-purpose Accelerator Complex); LEE, Seunghyun (Korea Multi-purpose Accelerator Complex); SONG, Young-Gi (Korea Multi-purpose Accelerator Complex)

**Presenter:** KWON, Hyeok-Jung (Korea Multi-purpose Accelerator Complex)

**Session Classification:** Tuesday Poster Session

**Track Classification:** MC3: Proton and Ion Accelerators and Applications: MC3.4 Proton linac projects