

Improvement of Resonance Frequency Control Mode in Resonance Control Cooling System at KOMAC

Thursday, November 14, 2024 1:00 PM (1h 30m)

A 100-MeV proton accelerator is under operation at Korea Multi-purpose Accelerator Complex (KOMAC). The resonance control cooling system (RCCS) has provided the cooling water to drift tube linac (DTL). The resonance frequencies of the DTL tanks are controlled by using the RCCS, installed at every DTL tank. RCCS has two operation modes including the constant temperature mode and the resonance frequency control mode. The control modes must be improved continuously for stabilizing the radio frequency. In this paper, the preparations for improvement of the RCCS control mode are described.

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

Paper submission Plan

Yes

Best Presentation

No

Contribution track

ICABU WG1. Accelerator Systems

Primary author: KIM, Kyunghyun (KAERI)

Co-authors: Dr KIM, Hansung (KAERI); KWON, Hyeok-Jung (Korea Atomic Energy Research Institute)

Presenter: KIM, Kyunghyun (KAERI)

Session Classification: ICABU Poster Session

Track Classification: ICABU: ICABU WG1. Accelerator Systems