

# Development of a Web-Based KOMAC Operational Logbook System

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

KOMAC operates a 100 MeV proton linear accelerator and began providing beam services in 2013. Throughout its operation, various issues have occurred, and they have been addressed. Each machine manager was recorded by individual operators, mostly manually, which made it difficult to retrieve past records for reference when similar issues occurred. Moreover, as 24-hour shift operations are set to begin, the need for a systematic logging system has become increasingly important. To address this, a logbook system optimized for the KOMAC operational environment was developed. We developed the system using a web interface, which is easily accessible and allows for rapid development. Additionally, a database-driven logbook system was implemented to provide a search engine for efficient retrieval of essential information related to issues. The developed logbook system also features a one-click function to load information on the current accelerator operating status, which assists in logbook creation. This paper introduces the developed logbook system and explains future development plans.

This work has been supported through KOMAC of KAERI by MSIP (524320-24)

## Paper submission Plan

## Best Presentation

## Contribution track

ICABU WG1. Accelerator Systems

**Primary author:** CHO, Sung-Yun (KOMAC/KAERI)

**Co-authors:** JEONG, Hae-Seong (KOMAC/KAERI); KWON, Hyeok-Jung (Korea Atomic Energy Research Institute); KIM, Jae-ha (KOMAC/KAERI); SONG, Young-gi (KOMAC/KAERI)

**Presenter:** CHO, Sung-Yun (KOMAC/KAERI)

**Session Classification:** ICABU Poster Session

**Track Classification:** ICABU: ICABU WG1. Accelerator Systems