

# Fundamental Diagnostics Results of KOMAC 100 MeV Linac Neutrons Using Neutron Activation System

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The radiation effects and durability of materials, electronics and instruments to be used in high radiation fields, such as nuclear fusion reactors (DEMO) and Generation IV reactors, are critical research issues. For neutron irradiation tests and research, appropriate neutron facilities should be provided to simulate intensive nuclear fusion or fission neutrons. This study aims to provide an environment to conduct basic research by utilizing existing neutron sources based on accelerators instead of newly developing large-scale neutron source that require high costs. For this goal, neutron generation and transport simulation were performed, and fundamental diagnostic results of neutrons generated at the KOMAC 100 MeV linac were obtained using neutron activation system (NAS).

## Contribution track

ICABU WG3. Beamline and Instrumentation

## Paper submission Plan

## Best Presentation

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