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PO28 - Current Status of Refurbished Target Irradiation System for Radioactive Isotope Production Using an Electron Linear Accelerator at Research Center for Electron Photon Science, Tohoku University

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60 MeV electron linac has been used for radioisotope (RI) production via photo-nuclear reaction at Research Center for Electron Photon Science (ELPH) at Tohoku University. Operation hours of the linac is 834 hours in 2022 despite refurbished former 300 MeV linac built in 1967. Four engineers together with researchers in beam physics and radiochemistry are in charge of accelerator operation and its development including other two linacs. In addition to eight-hour operation that is usually performed by two works shifts, we respond to requests of users for development of accelerators and applications. Since we have refurbished the target irradiation system for RI production including cooling system, interlock system, and accelerator operation system in 2018, details and current status of our irradiation system for RI production using the linac will be reported in the presentation.

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Session Classification: Poster / Demo Sessions