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Development of EPICS-based control system for RAON SCL2 cryogenic system

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The RAON heavy ion accelerator is a facility for finding rare isotopes through IF and ISOL and consists of a superconducting accelerator (SCL) and an experiment facility using accelerated beams. For the integration of various devices comprised of large scientific facilities, the RAON control system integrates distributed control systems using EPICS. A cryogenic system has been built for the low-energy section (SCL3), and the VB (Valve-Box), which consists of various valves of the cryogenic system, is controlled through the RAON control system. This paper explains how to build a RAON control system for a cryogenic system for the high energy section (SCL2). In the cryogenic control system of the SCL2 section, the EPICS IOC and control server were configured using an improved standardization method than SCL3, and this explains how flexibility was provided for adding devices and changing details for multiple valve boxes. .

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