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C4Or1B-05: RAON - SCL2 - Cryogenic Plant Basic Design Presentation

Thursday 25 July 2019 10:30 (15 minutes)

RAON is a heavy-ion accelerator under construction by IBS (Institute for Basic Science) in Daejeon in South-Korea. The aim of the project is to explore the origins of chemical elements, to study new isotopes and to perform research on applied medical and new materials using rare isotopes. For the second linear accelerator (LINAC), a cryogenic plant of 4 kW @ 2.05K will be necessary to maintain the cavities in superconducting state. This presentation details the basic design of the cryogenic plant supplying the cold power to the cavities. Process operations, main challenges and solutions set up to address these challenges and requirements will be described in the presentation.

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