

Cryogenic activities in RIKEN RI beam factory

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RIKEN RI Beam Factory (RIBF) is an accelerator-facility which can supply the most intense RI beam generated by in-flight fission or fragmentation of heavy ions. A lot of superconductive magnets with cryogenics system are used to operate this accelerator based system as shown in Fig. 1. After overviewing all the cryogenics systems, this talk focuses on operational experience of the cryogenics system for the superconducting ring cyclotron [1]. The cryogenic system for the superconducting linac [2] was recently installed. The commissioning results will be also presented..

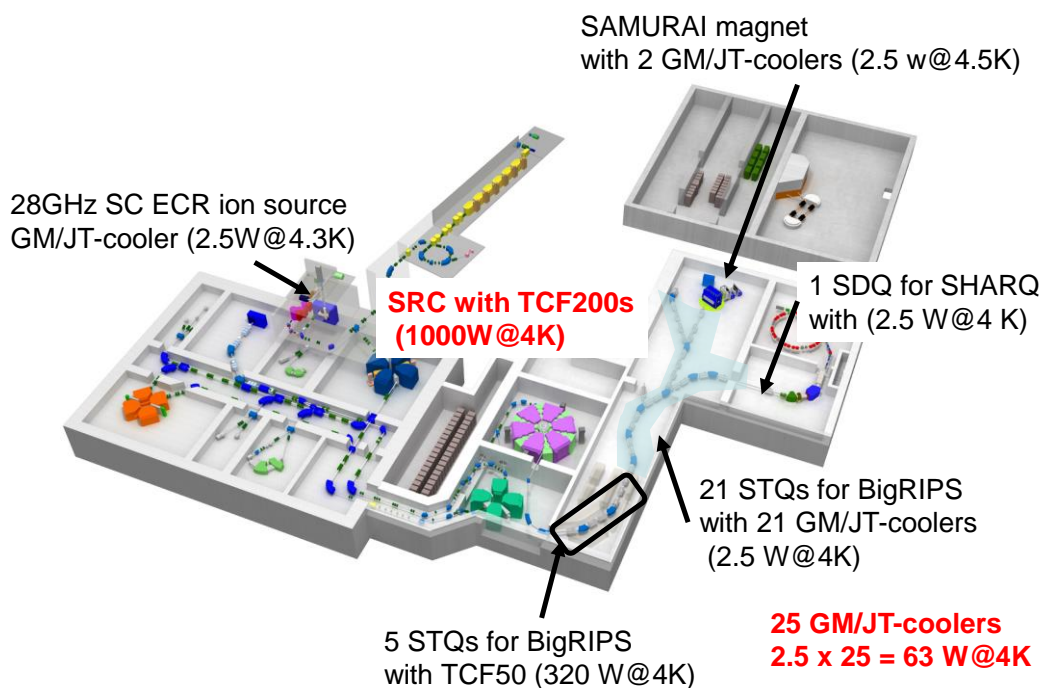


Fig. 1 Superconducting magnets with cryogenic system for RIBF.

References

- [1] H. Okuno, et al., IEEE Trans. Appl. Supercond., 17 (2007) 1063
- [2] N. Sakamoto, et al., Proc. Of LINAC2018, Beijing, China (2018) WE2A03.