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Preliminary design of control system for storage ring RF in Korea 4GSR

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The Korea 4th Generation Storage Ring(Korea-4GSR) project has been launched in 2022. The Korea 4GSR aims to generate the ultra-low emittance beam with the beam current of 400 mA and the beam energy of 4 GeV. In order to accelerate and store the beam to desired parameter, the Storage Ring RF(SRRF) is composed of 10 or more RF Stations and each RF Station includes LLRF(Low Level RF), HPRF(High Power RF), NCC(Normal Conducting Cavity) system.

For stable operation and machine safety, sub systems are operated by the Control System for the SRRF. In this paper, we describe the design of the Control System. It will include control network, operating interface, emergency interlock, data archiving and so on.

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Footnotes

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Yes

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