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# Preliminary design of LLRF system for Korea-4GSR

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The Korean 4th Generation Storage Ring (4GSR) project is being under construction with the plan of commissioning at the end of 2027. The beam energy of this facility is 4 GeV, and a 500 MHz EU- HOM-damped normal cavity will be adopted to generate the ultra-low emittance beam of 58 pm rad with the beam current of 400 mA. This paper covers the design considerations of the low level RF (LLRF) system for digital feedback control of the 4GSR RF system and the preliminary design for its implementation. In addition, the configuration of the RF system and peripheral control devices related to the LLRF system will be presented.

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