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RAON RF Systems

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☒ The RAON accelerator planned SC linac in Korea will use solid state power amplifiers to provide superconducting cavities with rf power. The RAON main accelerator is composed of a normal conducting injector and a superconducting linac. SC linac uses 3 types of SC cavities which are QWR, HWR and SSR. SSR is composed of two families at low and high beta. Each cavity is driven by a SSPA. SSPA which is developed by in house is based on the 2 kW module. An LLRF systems to control the amplitude and phase of RF fields, which was built for normal conducting cavities for mock-up cavities has been modified to control a superconducting cavity. RF reference line will be planned to test the power distribution systems.

Summary

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