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Prototyping of superconducting cavities for RAON the heavy ion accelerator

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Four kinds of superconducting resonators (Quarter wave resonator, half wave resonator, and Single spoke resonator type 1, type 2) are designed and developed for the heavy ion accelerator the RAON. Resonators which have extreme high Q-factor $10E9 \sim 10E10$, are filled up through coaxial RF power couplers of over coupling at 81.25MHz (QWR), 162.5MHz (HWR), 325MHz (SSR) respectively. Cavities are fabricated from 3mm RRR300 Niobium sheets by the collaboration with domestic vendors. 325MHz 10kWatts RF power couplers are prototyped and will be tested with a dummy cavity in the room temperature.

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