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High Average Beam-Power SRF Electron Source

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There is a significant interest in achieving high-average power electron sources, particularly in the area of electron sources integrated with superconducting radio frequency (SRF) systems. For these systems, the electron gun and cathode parts are critical components for stable intensity and high average powers. In this study, we will present the design of 9-cell accelerator cavity having 1.3-GHz frequency and field optimization studies by using different simulation results.

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