

High-Power Testing of a Normal-Conducting Single-Cell RF Cavity Utilizing Two Input Couplers

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High-power tests were conducted on a normal-conducting single-cell copper rf cavity fitted with two H-loop input couplers in order to determine the capability of the cavity system to operate reliably at 200kW CW total input power. The Advanced Photon Source 350-MHz RF Test Stand was utilized to conduct the tests. Performance data and highlights of the conditioning process leading to sustained 200kW CW operation will be presented.

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