

High-Gradient Single-Cell Tests at X-Band

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We report results of ongoing high power tests of single cell standing wave structures. These tests are part of an experimental and theoretical study of rf breakdown in normal conducting structures at 11.4 GHz. The goal of this study is to determine the gradient potential of normal-conducting, rf powered particle beam accelerators. The test setup consists of reusable mode launchers and short test structures and powered by SLAC's XL-4 klystron. To date tested structures of different geometries including choke structures and structures made of different copper alloys.

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