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Scanning Tunneling Spectroscopy of LiFeAs

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LiFeAs is one of several pnictide and chalcogenide superconductors that can be grown in single-crystal form with relatively few defects. Spectroscopy away from any native defects reveals a spatially uniform superconducting gap, with two distinct gap edges. Quasiparticle interference over the gap energy range provides evidence for an S+- pairing state. We further explore the spectroscopy of both native, and deliberately introduced defects and compare to theoretical calculations for defects in an S+- superconductor.

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