Fabrication and Characterization of Superconducting Nanowires

- Zn and Al nanowires were fabricated using electron-beam lithograph
- They were cooled below the transition temperature and driven resistive by the application of current.

MAJOR OBSERVATIONS

- Application of a magnetic field restored the superconductivity
- From the angular dependence of the response it is possible to infer that the generation of quasiparticles by the field dampens resistance producing phase fluctuations thus restoring the superconductivity.

Publications
