

**Abstract:**

A quantum theory of point contact spectroscopy (PCS) was recently developed as a potential filter for non-Fermi liquid behavior in correlated materials. Classically, PCS is an experimental technique which has been used for several decades to determine scattering information on normal metals as well as gap information on superconducting materials. The quantum theory of PCS for correlated materials suggests that a zero bias peak in the  $dI/dV$  spectrum can be associated with an excess density of states for non-Fermi liquids. The initial experimental approach to using PCS on  $\text{YFe}_2\text{Al}_{10}$  in order to try to detect quantum critical fluctuations in this material is presented.