

“Effects of nonlocal electrodynamics in $\text{YNi}_2\text{B}_2\text{C}$ and other Superconductors”

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The idea of a non-local relation between the current \mathbf{j} and the field (vector potential \mathbf{A}) is an old one. Only recently, however have theory, materials, and experimental methods converged in a clear demonstration of the importance of non-locality in high- κ superconductors. In this talk, will describe magnetization studies on single crystalline $\text{YNi}_2\text{B}_2\text{C}$ and their interpretation using generalized London theory, as recently developed by V. G. Kogan et al. Complementary studies in the cubic structured compound V_3Si will be briefly described as well..

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