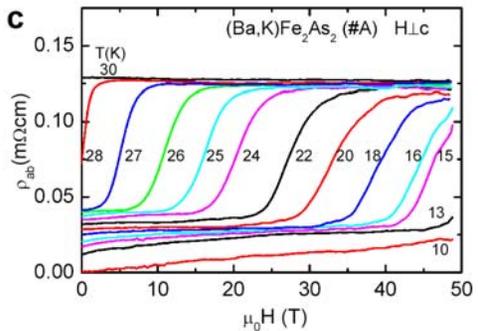
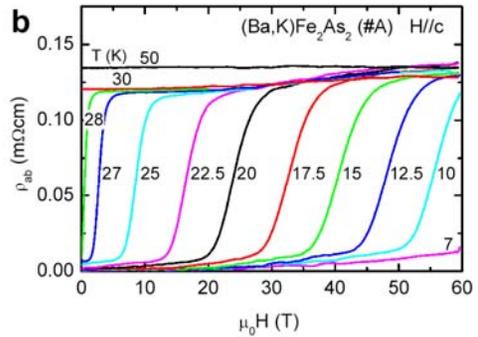
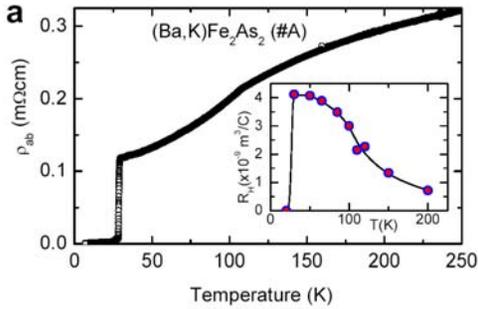


Nearly Isotropic Superconductivity in (Ba,K)Fe₂As₂

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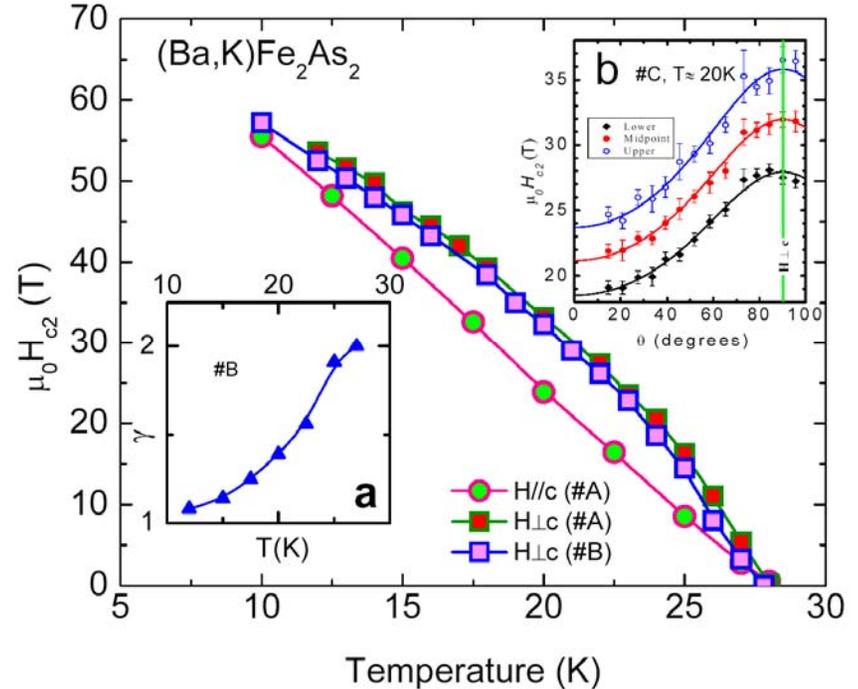
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- The layered structures of the FeAs-based superconductors led to the expectation that they would have highly anisotropic superconducting properties.

- The advent of high-quality crystals and the use of pulsed fields allows this idea to be tested.

- Even from the raw data (left), the small anisotropy is evident; H_{c2} is similar for $H \parallel c$ and $H \perp c$.



- Main figure: as $T \rightarrow 0$, the H_{c2} values for $H \parallel c$ and $H \perp c$ become increasingly similar.
- This is also shown in **a**, which plots the anisotropy parameter γ vs. T ; $\gamma \rightarrow 1$ as $T \rightarrow 0$.
- Inset **b** shows $H_{c2}(\theta)$ at 20 K.

Summary: (Ba,K)Fe₂As₂ has an almost isotropic upper critical field.

Angular dependent transport in the 60 and 65 T pulsed magnets, NHMFL-LANL. Supported by DOE, NSF and State of Florida, DOE BES program "Science in 100T", the NHMFLUCGP, the National Science Foundation of China, the National Basic Research Program of China (973Program), the Chinese Academy of Sciences and by PCSIRT of the Ministry of Education of China. (PI G.F. Chen)