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Investigation By SANS Of Collective Vortex Behaviour
In KFe_2As_2 And Some YBaCuO Based
Superconductors By Richard Heslop**

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Statics and dynamics of the vortex lattice in

Statics and Dynamics of the Vortex Lattice 23 Fig. 2. Two profiles of the magnetic field B(x,y) and order parameter | $\psi(x,y)$ |² along the x axis (a nearest neighbor

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Features of the melting dynamics of a vortex lattice in a high-T_c superconductor in the presence of pinning centers M. E. Gracheva, V. A. Kashurnikov, and I. A. Rudnev

Superconductivity - wikipedia, the free

Superconductivity is a phenomenon The electrons are constantly colliding with the ions in the lattice, in which the vortex lines of the superconductor

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Richard Heslop Investigation by SANS of collective vortex behaviour in KFe₂As₂ and some YBaCuO based superconductors :

Imaging superconducting vortex cores and lattices

give vortex lattice images in a variety of systems. However, Superconductivity survives up to magnetic fields where, for imaging purposes,

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challenges of understanding and designing strongly correlated electron materials - novel kinds of order, magnetism and superconductivity.

Superconductivity (cond-mat.supr-con)

The orientational coupling between the vortex lattice and crystal lattice one expected in a single gap superconductor, and the hexagonal vortex lattice is

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Rhombic vortex lattice d- wave superconductivity -

RHOMBIC VORTEX LATTICE IN d-WAVE SUPERCONDUCTIVITY JUN'ICHI SHIRAIISHI AND MAHITO KOHMOTO Institute for Solid State Physics, University of Tokyo, Roppongi, Minato-ku

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Stability of the vortex lattice in d-wave

of the vortex lattice in a d-wave superconductor. In particular the rhombic lattice (i.e. the 45° tilted square lattice) is found to be stable for $B > H_{c2}(t)$.

CiteSeerX stability of the vortex lattice in

Abstract. Use is made of Onsager's hydrodynamic equation to derive the vibration spectrum of the vortex lattice in d-wave superconductor. In particular the rhombic

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Abstract The vortex lattice structure in a d_{x²-y²}-wave superconductor is investigated near the upper critical magnetic field in the framework of the Ginzburg

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Abrikosov vortex - wikipedia, the free

the field penetrates into superconductor in terms of Abrikosov vortices. Each vortex carries one thread of magnetic Abrikosov vortices form a lattice,

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of collective vortex behaviour in KFe_2As_2 and some YBaCuO based superconductors Author: Heslop, studies of the collective vortex behaviour from two

Brazilian journal of physics - the vortex lattice

IV. Elasticity of the Vortex Lattice. P.G. DeGennes, Superconductivity of Metals and Alloys, New York, Benjamin, 1966. Links

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[cond-mat/0610365] surface melting of the vortex

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