

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

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About Vortex Physics and Superconductivity; Committee; Speakers; Program; the Abrikosov vortex lattice, with each vortex carrying a single flux quantum.

Vortex lattice structure in a $d_{x^2-y^2}$ -wave

Abstract The vortex lattice structure in a $d_{x^2-y^2}$ -wave superconductor is investigated near the upper critical magnetic field in the framework of the Ginzburg

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

Oct 12, 2006 Surface Melting of the Vortex Lattice in Layered Superconductors: Density Functional the surface on vortex-lattice Superconductivity

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

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Muon Spin Rotation and the Vortex Lattice in Superconductors Abstract (806) Cached. Key words: Muon Spin Rotation, superconductivity, vortex lattice 1. Citations. 15:

The vortex lattice dynamics in the high- T_c

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Nobel lecture: type-II superconductors and the

Nobel Lecture: Type-II superconductors and the vortex lattice* A. A. Abrikosov their famous paper on the theory of superconductivity sGinzburg and Landau, 1950d.

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

Gallery of abrikosov lattices in superconductors -

Vortex configurations in periodic pinning array, 2000 Scanning Hall probes Nb film with holes on a square lattice, half matching field S. B. Field et al. Colorado

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Investigation by small-angle neutron scattering

YBaCuO based superconductors Richard William angle neutron scattering for investigation of collective vortex behaviour 4 Some general SANS experimental

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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

Sr studies of the vortex lattice in high-t and

66 E.M. Forgan et al. / SR studies of the vortex lattice Fig. 4. SR lineshapes (experimental data are points) in BSCCO after cooling in a field applied in

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Vortex lattice state In a "Type II" superconductor, Flux lattice of vortex lattice in MgB₂ at T = 2K
VORTEX LATTICE STATE

Ictp2010: strongly correlated electrons

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

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lattice dynamics in Bi₂Te₃ based

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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 $B > H_{cr}(t)$.

Anisotropic vortex lattice structures in the fese

ANISOTROPIC VORTEX LATTICE STRUCTURES IN THE PHYSICAL REVIEW B 85, 104510
(2012) FIG. 4. (Color online) (a) DOS vs tunneling voltage E for extended s wave

The vortex lattice in the heavy fermion

Title: The Vortex Lattice in the Heavy Fermion Superconductor Uranium Triplatinide: Authors:
Kleiman, Rafael Nathan: Affiliation: AA(CORNELL UNIVERSITY.)

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Features of the melting dynamics of a vortex

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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,

[cond-mat/0203198v1] ground state vortex lattice

Mar 07, 2002 Ground State Vortex Lattice Structures in d s symmetry gap model for a cuprate superconductor that the clean vortex lattice has discontinuous

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