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# Vortices In The Magnetic Ginzburg Landau Model 1st Edition

**vortices in type-ii superconductors** - vortices in type-ii superconductor arise when the magnetic field starts to penetrate the materials in the form of quantized flux. the vortices interact with each, and can form different phases under the influence of the magnetic field, thermal fluctuations, and the pinning effect of disorder and defects. **magnetic vortices, vortex lattices and automorphic functions** - vortices and vortex lattices are equivariant solutions for different subgroups of the group of rigid motions (subgroups of rotations and lattice translations, respectively). i.mgal, texas analysis and math physics symposium magnetic vortices, abrikosov lattices, automorphic functions **the core structure of magnetic vortices in type-ii ...** - quantized magnetic flux lines, i.e. a vortex lattice (vl) [1]. since abrikosov's initial theoretical description of the vortex state, there has been tremendous effort directed toward understanding the behaviour of magnetic flux lines (vortices) in type-ii superconductors. the basis of abrikosov's model of the vortex state is the phenomenological **simulations of magnetic vortex nucleation at grain ...** - the solution to  $y$  is dependent on the magnetic field and potential ( $h$  and  $a$ ), and other parameters. one of these parameters,  $a$ , represents specific material properties and is discussed in sec.2.4. when vortices enter into a material, the order parameter becomes zero within the vortex, which size **magnetic vortices: controlled dynamic switching of the ...** - when excited by a fast-rising magnetic field or spin-polarized current, vortices exhibit a rich variety of fundamental dynamic behaviors that are inherent to [4]. generally, the chiral structures [1] magnetization distribution of a vortex is an example of a magnetic topological soliton [5] and **physics569 term paper qinglei meng - guavaysics.uiuc** - much smaller than the dot diameter. this unique property of magnetic vortex yields several interesting application. one of them is data storage application [3]. due to the dipole-free configuration, this magic structure will prevent cross-talk among adjacent vortices, and thus have high magnetic stability. **the stability of magnetic vortices - mathronto** - the stability of magnetic vortices 261 remark 1. the  $\delta$ -vortex is known to be the unique solution of (gl) of the form (8) when  $\div \emptyset 2 \dot{u} 2[abgi]$  the appendix, we show that for **extracting, tracking, and visualizing magnetic flux ...** - vortices fundamentally determine the electromagnetic response of the material. above a critical level, an externally applied magnetic field penetrates a type-ii superconductor in the form of flexible flux tubes. the magnetic flux in the vortex core is surrounded by a circular super-current. when the vortices move, the system becomes ... **laboratory studies of magnetic vortices. iii. collisions ...** - iii. collisions of electron magnetohydrodynamic vortices j. m. urrutia, r. l. stenzel, and m. c. griskey department of physics and astronomy, university of california, los angeles, california 90095-1547 ~received 22 march 1999; accepted 18 october 1999! magnetic vortices in the parameter regime of electron magnetohydrodynamics are studied in a ... **scanning hall probe microscopy of magnetic vortices in ...** - scanning hall probe microscopy of magnetic vortices in very underdoped yttrium-barium-copper-oxide a dissertation submitted to the department of physics and the committee on graduate studies of stanford university in partial fulfillment of the requirements for the degree of doctor of philosophy janice wynn guikema march 2004 **laboratory studies of magnetic vortices. ii. helicity ...** - laboratory studies of magnetic vortices. ii. helicity reversal during reflection of a magnetic vortex at a conducting boundary r. l. stenzel, j. m. urrutia, and m. c. griskey department of physics and astronomy, university of california, los angeles, california 90095-1547 ~received 29 january 1999; accepted 30 april 1999! **tiny vortices driven by magnetic fields might be able to ...** - tiny vortices driven by magnetic fields might be able to move microscopic particles 28 september 2018, by zane vorenberg credit: cc0 public domain in the wizard of oz, a tornado picks up dorothy's **trapping a single vortex and reducing quasiparticles in a ...** - magnetic fields for controlling circuit parameters. the response of magnetic flux vortices in such resonators has been studied throughfield-cooled measurements and related to the vortex viscosity and pinning strength in different superconducting films [4]. in general, trapped vortices were found to cause a reduction in the resonator **high reynolds number vortices with magnetic field in non ...** - high reynolds number vortices with magnetic field in non-axisymmetric strain konrad bajar university of cambridge, damtp, cambridge, cb3 9ew, u.k. \* **dynamics of driven vortices in disordered type-ii ...** - magnetic vortices, the different kinds of disorder the vortices are subject to, and the concept of physical aging. 1.1 type-ii superconductivity superconductivity is the phenomenon of perfect conductivity or zero resistance. as one can imagine, superconductivity is a desirable property in materials; such materials can be

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