
Magnetic Interactions Spin Transport

imaging spin injection & spin transport in semiconductors - imaging spin injection & spin transport in semiconductors scott crooker national high magnetic field lab ... k-dependent spin-orbit interactions ... n-gaas channel fe contacts imaging spin injection & spin transport in semiconductor devices science (2005), prl (2006) nature phys. ('07), prb ('09) **spin hamiltonians and exchange interactions** - spin hamiltonians and exchange interactions this version of modern models, lec. 4.1, edited for p654, spring 2008. sections 4.1 d ... including the nature of the spin-wave dispersion as well as transport properties. a more current interest: if you're doing spintronics, you care whether spin is **hyperfine interactions and spin transport in ferromagnet ...** - hyperfine interactions and spin transport in ... associated with the cancellation of the magnetic field along the spin injection axes b_x by the electronic exchange field b ... spin transport problems.1,2,11,13,16 the dynamics of the injected spins in the gaas channel **spin transport and current induced magnetization dynamics ...** - spin transport and current induced magnetization dynamics ... 1.5 modeling of spin transport and magnetodynamics 12 ... orbit interaction or the shape anisotropy caused by magnetic dipole interactions pin the equilibrium magnetization in a certain axis or plane. **magnetic transport in spin antiferromagnets for ...** - consists of exchange interactions between spins on adjacent sites. the 1d case relevant for Sr_2CuO_3 , for example, is simpler to analyze, and will be used throughout this paper. note, however, that the ... magnetic transport in spin antiferromagnets for spintronics applications **monte carlo study of the spin transport in magnetic materials** - monte carlo study of the spin transport in magnetic materials ... iii) interactions between a given itinerant spin and lat-tice spins inside a sphere of radius $d/2$ (eq. 3); iv) interactions between adjacent itinerant spins and other itinerant spins inside a sphere of radius $d/2$ (eq. 2). 2. **spin current generation and relaxation in a quenched spin ...** - understanding the effects of spin-orbit coupling (soc) and many-body interactions on spin transport is important in condensed matter physics and spintronics. this topic has been ... magnons^{10,11} in a magnetic insulator. in spin-based devices, soc and many-body interactions are key factors for spin current manipulations. soc can play a ... **self-consistent calculation of spin transport and ...** - self-consistent calculation of spin transport and magnetization dynamics kyung-jin leea,b,c,d*, m ... (it includes exchange, magnetostatic interactions, anisotropy, thermal ... torque acting on m_i . for multilayers such as metallic spin valves or magnetic tunnel junctions . 6 where the current flows perpendicular to the interfaces, n_i is ... **spin-dependent transport in molecular tunnel junctions** - spin-dependent transport in molecular tunnel junctions j. r. petta,* s. k. slater, and d.c. ralph ... spin transport of photo excited ... requiring spin manipulation because the relative weakness of spin-orbit and hyperfine interactions in many molecules, compared to conventional semiconductor systems, may help to isolate the spin from ...

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