PHYSICAL REVIEW B **THIRD SERIES, VOLUME 81, NUMBER 2** **JANUARY 2010-1(II)**

Control of chirality normal to the interface of hexagonal magnetic and nonmagnetic layers *(4 pages)* . . . . . 020404(R)
Jason T. Haraldsen and Randy S. Fishman

Ballistic heat transport of quantum spin excitations as seen in $SrCuO_2$ *(4 pages)* . . . . . 020405(R)
N. Hlubek, P. Ribeiro, R. Saint-Martin, A. Revcolevschi, G. Roth, G. Behr, B. Büchner, and C. Hess

4*f* charge-density deformation and magnetostrictive bond strain observed in amorphous $TbFe_2$ by x-ray absorption spectroscopy *(4 pages)* . . . . . 020406(R)
S. Pascarelli, M. P. Ruffoni, A. Trapananti, O. Mathon, C. Detlefs, M. Pasquale, A. Magni, C. P. Sasso, F. Celegato, E. Olivetti, Y. Joly, and D. Givord

High-field instability of a field-induced triplon Bose-Einstein condensate *(4 pages)* . . . . . 020407(R)
Abdulla Rakhimov, E. Ya. Sherman, and Chul Koo Kim

Haldane charge conjecture in one-dimensional multicomponent fermionic cold atoms *(4 pages)* . . . . . 020408(R)
H. Nonne, P. Lecheminant, S. Capponi, G. Roux, and E. Boulat

Field-induced spin supersolidity in frustrated $S=\frac{1}{2}$ spin-dimer models *(4 pages)* . . . . . 020409(R)
Pochung Chen, Chen-Yen Lai, and Min-Fong Yang

Direct imaging of domain-wall interactions in $Ni_{80}Fe_{20}$ planar nanowires *(4 pages)* . . . . . 020410(R)
T. J. Hayward, M. T. Bryan, P. W. Fry, P. M. Fundi, M. R. J. Gibbs, D. A. Allwood, M.-Y. Im, and P. Fischer

Time-reversal symmetry breaking at the edge states of a three-dimensional topological band insulator *(4 pages)* . . . . . 020411(R)
Cenke Xu

Splitting of a moving transverse domain wall in a magnetic nanostripe in a transverse field *(4 pages)* . . . . . 020412(R)
S. Glathe, M. Zeisberger, U. Hübner, R. Mattheis, and D. V. Berkov

Domain-wall pinning, nonadiabatic spin-transfer torque, and spin-current polarization in permalloy wires doped with vanadium *(4 pages)* . . . . . 020413(R)
S. Lepadatu, J. S. Claydon, C. J. Kinane, T. R. Charlton, S. Langridge, A. Potenza, S. S. Dhesi, P. S. Keatley, R. J. Hicken, B. J. Hickey, and C. H. Marrows

Wave function of a microwave-driven Bose-Einstein magnon condensate *(4 pages)* . . . . . 020414(R)
Sergio M. Rezende

Superfluidity and superconductivity

Low-temperature transition to a superconducting phase in boron-doped silicon films grown on (001)-oriented silicon wafers *(4 pages)* . . . . . 020501(R)
C. Marcenat, J. Kačmarčík, R. Piquerel, P. Achatz, G. Prudon, C. Dubois, B. Gautier, J. C. Dupuy, E. Bustarret, L. Ortega, T. Klein, J. Boulmer, T. Kociniewski, and D. Débarre

Stable fractional flux vortices in mesoscopic superconductors *(4 pages)* . . . . . 020502(R)
L. F. Chibotaru and V. H. Dao

^{31}P and ^{75}As NMR evidence for a residual density of states at zero energy in superconducting $BaFe_2(As_{0.67}P_{0.33})_2$ *(4 pages)* . . . . . 020503(R)
Yusuke Nakai, Tetsuya Iye, Shunsaku Kitagawa, Kenji Ishida, Shigeru Kasahara, Takasada Shibauchi, Yuji Matsuda, and Takahito Terashima

Measurement of the nonlinear Meissner effect in superconducting Nb films using a resonant microwave cavity: A probe of unconventional pairing symmetries *(4 pages)* . . . . . 020504(R)
Nickolas Groll, Alexander Gurevich, and Irinel Chiorescu

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).