

Dynamics, dynamical systems, lattice effects, quantum solids

Barrier crossing to the small Holstein polaron regime (<i>4 pages</i>)	092301
Peter Hamm and G. P. Tsironis	
Trapping of lattice polarons by impurities (<i>4 pages</i>)	092302
J. P. Hage, P. E. Kornilovitch, and A. S. Alexandrov	
Real time evolution in quantum many-body systems with unitary perturbation theory (<i>4 pages</i>)	092303
A. Hackl and S. Kehrein	

Magnetism

Temperature dependence of nonlinear auto-oscillator linewidths: Application to spin-torque nano-oscillators (<i>4 pages</i>)	092401
V. S. Tiberkevich, A. N. Slavin, and Joo-Von Kim	
Topological effects on the magnetic properties of closed and open ring-shaped Cr-based antiferromagnetic nanomagnets (<i>4 pages</i>)	092402
Yuji Furukawa, Kazuki Kiuchi, Ken-ichi Kumagai, Yoshitami Ajiro, Yasuo Narumi, Masahiro Iwaki, Koichi Kindo, Alberto Bianchi, Stefano Carretta, Grigore A. Timco, and Richard E. P. Winpenny	
Large reduction of the magnetoresistance in Fe/MgO/Fe tunnel junctions due to small oxygen concentrations at a single FeO interface layer: A first-principles study (<i>4 pages</i>)	092403
P. Bose, A. Ernst, I. Mertig, and J. Henk	
Anomalous pressure effect on the magnetic ordering in multiferroic BiMnO ₃ (<i>4 pages</i>)	092404
C. C. Chou, S. Taran, J. L. Her, C. P. Sun, C. L. Huang, H. Sakurai, A. A. Belik, E. Takayama-Muromachi, and H. D. Yang	
Anomalous Hall effect in magnetite: Universal scaling relation between Hall and longitudinal conductivity in low-conductivity ferromagnets (<i>4 pages</i>)	092405
Deepak Venkateshvaran, Wolfgang Kaiser, Andrea Boger, Matthias Althammer, M. S. Ramachandra Rao, Sebastian T. B. Goennenwein, Matthias Opel, and Rudolf Gross	
High-temperature superconductivity in Eu _{0.5} K _{0.5} Fe ₂ As ₂ (<i>4 pages</i>)	092406
H. S. Jeevan, Z. Hossain, Deepa Kasinathan, H. Rosner, C. Geibel, and P. Gegenwart	

Superfluidity and superconductivity

Compton limit of the Josephson supercurrent (<i>4 pages</i>)	092501
K. Gloos, J. Sjölund, and G. Pristáš	
Experimental confirmation of the low B isotope coefficient of MgB ₂ (<i>4 pages</i>)	092502
P. Brotto, M. Tropeano, C. Ferdeghini, P. Manfrinetti, A. Palenzona, E. Galleani d'Agliano, and M. Putti	
Superconductivity induced by oxygen deficiency in La _{0.85} Sr _{0.15} FeAsO _{1-δ} (<i>4 pages</i>)	092503
G. Wu, H. Chen, Y. L. Xie, Y. J. Yan, T. Wu, R. H. Liu, X. F. Wang, D. F. Fang, J. J. Ying, and X. H. Chen	
Magnetization relaxation and collective vortex pinning in the Fe-based superconductor SmFeAsO _{0.9} F _{0.1} (<i>4 pages</i>)	092504
Huan Yang, Cong Ren, Lei Shan, and Hai-Hu Wen	

(Continued)