List Of 2012 Reports

ID#	Title, First Author, and Category	Status
123	**Title:** Evolution of Magnetism in a Jahn-Teller Driven Magnetic Dimensionality Switch **First Author:** Ghannadzadeh, S., University of Oxford, Physics, s.ghannadzadeh1@physics.ox.ac.uk **PI:** Goddard, P.A., University of Oxford, Physics, p.goddard@physics.ox.ac.uk **Category:** Other Condensed Matter **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
213	**Title:** Quantum Transport of Dirac Fermion Systems Under Pressure **First Author:** Graf, D., NHMFL, graf@magnet.fsu.edu **PI:** Graf, D., NHMFL, graf@magnet.fsu.edu **Category:** Other Condensed Matter **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
223	**Title:** Quantum Oscillations of the Rashba Spin-splitting Compound BiTeI **First Author:** Mun, E., LANL, edmun@lanl.gov **PI:** Tanner, D., University of Florida, Associate Director of MICROFABRITECH, tanner@phys.ufl.edu **Category:** Other Condensed Matter **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
224	**Title:** Investigating the Possibility of a Magnetization Plateau in $Ba_3MnSb_2O_9$ **First Author:** Winter, L.E., FSU/NHMFL, Physics, lew09d@my.fsu.edu **PI:** Brooks, J.S., FSU/NHMFL, Physics, brooks@magnet.fsu.edu **Category:** Other Condensed Matter **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
233	**Title:** Metal-Insulator and Glass Transitions in a 2D Electron System in Si MOSFETs with a Screened Coulomb Interaction **First Author:** Lin, P. V., NHMFL, lin@magnet.fsu.edu **PI:** Popovic, D., NHMFL, dragana@magnet.fsu.edu **Category:** Other Condensed Matter **Facility:** CMT/E **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	Edited
303	**Title:** Approaching the Quantum Limit of the Electron Gas at the $LaAlO_3/SrTiO_3$ Interface **First Author:** Sato, H.K., SLAC National Accelerator Laboratory, SIMES, hksato@slac.stanford.edu **PI:** Hwang, H.Y., SLAC National Accelerator Laboratory, SIMES, hyhwang@stanford.edu **Category:** Other Condensed Matter **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: High Magnetic Field Study of Unusual $Bi_{1-x}Sb_x$	

314	**First Author:** Wang, J.F., Wuhan High Magnetic Field Center, jfwang@mail.hust.edu.cn **PI:** Sasaki, M. (Yamagata University, Japan) **Category:** Other Condensed Matter **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
412	**Title:** Magnetic Field Induced Quenching of Photoluminescence in $La_{0.7}Sr_{0.3}MnO_3$ Nanopillars Embedded in Self-assembled, Vertically-aligned Epitaxial $(ZnO)_{0.5}$:$(La_{0.7}Sr_{0.3}MnO_3)_{0.5}$ Nanocomposite Films **First Author:** Pan, W., Sandia National Laboratories, wpan@sandia.gov **PI:** Pan, W., Sandia National Laboratories, wpan@sandia.gov **Category:** Other Condensed Matter **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
413	**Title:** High Field Magnetisation of the Frustrated Quantum Magnet HoB_4 **First Author:** Guo, W., University of Cambridge, Physics, wg240@cam.ac.uk **PI:** Sebastian, S.E., University of Cambridge, Physics, ses59@cam.ac.uk **Category:** Other Condensed Matter **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
414	**Title:** Search for Exotic Phases in the Parameter Space of a Kitaev Heisenberg Model **First Author:** Das, S. D, University of Cambridge, Physics, sdd30@cam.ac.uk **PI:** Sebastian, S.E., University of Cambridge, Physics, ses59@cam.ac.uk **Category:** Other Condensed Matter **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
430	**Title:** Giant Positive Magnetoresistivity in Spin-Orbit-Driven $BaIrO_3$ **First Author:** Korneta, O.B., University of Kentucky, Physics, korneta@pa.uky.edu **PI:** Cao, G., University of Kentucky, Physics, cao@pa.uky.edu **Category:** Other Condensed Matter **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
135	**Title:** Investigation of Cation Ordering and Electronic Structures of $Ba_3BNb_2O_9$ (B = Co, Mn and Ni) Perovskites by Scanning Transmission Electron Microscopy **First Author:** Xin, Y., NHMFL, MST, xin@magnet.fsu.edu **PI:** Xin, Y., NHMFL, MST, xin@magnet.fsu.edu **Category:** Other Condensed Matter **Facility:** MS & T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: Spectroscopic Study of Magnetoelastic CrOCl **First Author:** Tung, L-C., University of North Dakota, Physics and Astrophysics, lichun.tung@ad.ndus.edu **PI:** Tung, L-C., University of North Dakota, Physics and Astrophysics, lichun.tung@ad.ndus.edu **Category:** Other Condensed Matter	

152	**Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
157	**Title:** Spin-polarized Conductance in Double Quantum Dots: Interplay of Kondo, Zeeman and Interference Effects **First Author:** Dias Da Silva, L.G., U. of Sao Paulo, Institute of Physics, luisdias@if.usp.br **PI:** Ulloa, S.E., Ohio U., Department of Physics And Astronomy, ulloa@ohio.edu **Category:** Other Condensed Matter **Facility:** UF Physics **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. B **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
62	**Title:** High Magnetic Field Measurements of the Organic Conductor $Per_2[Pt(mnt)_2]$ Using a Tunnel Diode Oscillator **First Author:** Winter, L.E., Florida State University/NHMFL, Physics, lew09d@my.fsu.edu **PI:** Brooks, J.S., Florida State University/NHMFL, Physics, brooks@magnet.fsu.edu **Category:** Other Condensed Matter **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
89	**Title:** High Field Magneto-Optical Studies of Liquid Crystals and Complex Fluids **First Author:** Sprunt, S.N., Kent State University, Physics, jgleeson@kent.edu **PI:** Gleeson, J.T., Kent State University, Physics, jgleeson@kent.edu **Category:** Other Condensed Matter **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Physical Review E 86 011708 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
108	**Title:** Weak Localization in Two Dimensional Transition Metal Dichalcogenide Flakes **First Author:** Neal, A.T., Purdue University, Electrical and Computer Engineering & Birck Nanotechnology Center, neala@purdue.edu **PI:** Ye, P. D., Purdue University, Electrical and Computer Engineering & Birck Nanotechnology Center, yep@purdue.edu **Category:** Other Condensed Matter **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
113	**Title:** High Field Study of Angle-Dependent Magnetoresistance Oscillations of a Multiple Fermi Surface System **First Author:** Kang, W., Ewha Womans University, Physics, wkang@ewha.ac.kr **PI:** Kang, W., Ewha Womans University, Physics, wkang@ewha.ac.kr **Category:** Other Condensed Matter **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
120	**Title:** Determining the Fermi Surface of Colossal Magnetoresistive Materials **First Author:** Goddard, P.A., University of Oxford, Physics, p.goddard@physics.ox.ac.uk **PI:** Goddard, P.A., University of Oxford, Physics, p.goddard@physics.ox.ac.uk **Category:** Other Condensed Matter **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited

Total Reports: 19