List Of 2013 Reports

ID#	Title, First Author, and Category	Status
1	**Title:** Transition Between Electron Solids in Wide Quantum Wells Near Landau Filling v = 1 **First Author:** Hatke, A.H, NHMFL, hatke@magnet.fsu.edu **PI:** Engel, L.E, NHMFL, engel@magnet.fsu.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** Nature Physics **Sign. Achievement: Yes** **Director's Recommendation: Yes, definitely** **Director's Comments:** None	Edited
44	**Title:** Melting of a Quantum 2D Wigner Crystal: Evidence for a Microemulsion Phase **First Author:** Gao, X.P., Case Western Reserve University, Physics, serafin@phys.ufl.edu **PI:** Gao, X.P., Case Western Reserve University, Physics, serafin@phys.ufl.edu **Category:** Semiconductors **Facility:** High B/T Facility at UF **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement: Yes** **Director's Recommendation: Yes, definitely** **Director's Comments:** None	Edited
67	**Title:** Time-Resolved Evidence for Superfluorescent Radiation from Quantum Wells in Strong Magnetic Fields **First Author:** Kim, J.K., Rice University, kimj@skku.edu **PI:** Kono, J.K., Rice University, kono@rice.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Scientific Reports (Nature) 3, 3283 (2013) **Sign. Achievement: Yes** **Director's Recommendation: Yes, definitely** **Director's Comments:** None	Edited
70	**Title:** Composite Fermions with Tunable Fermi Contour Anisotropy **First Author:** Kamburov, D., Princeton University, Electrical Engineering, dobromir@princeton.edu **PI:** Shayegan, M., Princeton University, Electrical Engineering, shayegan@princetonedu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. Lett. 110, 206801 (2013) **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Edited
66	**Title:** Magnetic Circular Dichroism Spectroscopy of III-V Ferromagnetic Semiconductors **First Author:** Khodaparast, G., Virginia Tech, Physics, khoda@vt.edu **PI:** Khodaparast, G., Virginia Tech, Physics, khoda@vt.edu **Category:** Semiconductors **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
2	**Title:** Re-Entrant Sign-Alternating Quantum Hall Effect in the Hgte/Cdhgte Double-Quantum-Well **First Author:** Yakunin, M.V., Institute of Metal Physics, Ekaterinburg, Russia, yakunin@imp.uran.ru **PI:** Yakunin, M.V., Institute of Metal Physics, Ekaterinburg, Russia, yakunin@imp.uran.ru **Category:** Semiconductors **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
162	**Title:** Temperature- and Magnet Field-dependent Photoluminescence of Metal Nanoclusters **First Author:** Green, T.D., FSU, Chemistry and Biochemistry, tgreen@chem.fsu.edu **PI:** Knappenberger, K.L., FSU, Chemistry and Biochemistry, klk@chem.fsu.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Edited

198	**Title:** Magneto Transport Measurements in Narrow Band Gap Semiconductors **First Author:** Shabani, J., UC Santa Barbara, CNSI, javadshabani@gmail.com **PI:** Palmstorm, C.J., UC Santa Barbara, CNSI, ECE and Materials, cpalmstrom@ece.ucsb.edu **Category:** Semiconductors **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
212	**Title:** Interlayer Tunneling in Mixed-Type GaAs Quantum Wells at High Magnetic Field **First Author:** Baldwin, T.K., University of Oregon, Physics, tbaldwin@uoregon.edu **PI:** Wang, H., University of Oregon, Physics, hailin@uoregon.edu **Category:** Semiconductors **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
231	**Title:** Cyclotron Resonance of Single Valley Dirac Fermions in Gapless HgTe Quantum Well **First Author:** Ludwig, J., NHMFL, jludwig@magnet.fsu.edu **PI:** Smirnov, D., NHMFL, smirnov@magnet.fsu.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. B Rapid Commun. **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Edited
238	**Title:** Evidence of Quantum Hall Gap Collapse Caused by Tilted Magnetic Field in Photoluminescence Spectra of a GaAs/AlGaAs Triple Quantum Well **First Author:** Yuri Pusep, Y.P., IFSC/USP, pusep@ifsc.usp.br **PI:** Yuri Pusep, Y.P., IFSC/USP, pusep@ifsc.usp.br **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. B **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None	Edited
358	**Title:** Magneto-Photoluminescence Measurements of $Al_xGa_{1-x}As$ Near the Direct-Indirect Crossover **First Author:** Alberi, K., NREL, Kirstin.Alberi@nrel.gov **PI:** Mascarenhas, A., NREL, crooker@lanl.gov **Category:** Semiconductors **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
375	**Title:** Magneto-Optical Properties of InSb Nanocrystals **First Author:** Chang, A.Y., Northwestern university, Chemistry, crooker@lanl.gov **PI:** Schaller, R.D., northwestern University & Argonne, Chemistry, schaller@anl.gov **Category:** Semiconductors **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
466	**Title:** Gauge Fluctuations and Interlayer Coherence in Bilayer Composite Fermion Metals **First Author:** Cipri, R., NHMFL-FSU, Physics, c17seas@gmail.com **PI:** Bonesteel, N.E., NHMFL-FSU, Physics, bonestee@magnet.fsu.edu **Category:** Semiconductors **Facility:** CMT/E **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. B **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: Search For Quantum Oscillation In Transparent Perovskite Oxides $(Ba,La)SnO_3$ Under High Magnetic Fields **First Author:** Yoo, K.J., Seoul National University, Department of physics and astronomy,	

237	ykj24ykj24@gmail.com **PI:** Kim, K.H., Seoul National University, Department of physics and astronomy, optopia@snu.ac.kr **Category:** Semiconductors **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
204	**Title:** Photoresistance of a Two-Dimensional Electron Gas at Sub-Terahertz Frequencies **First Author:** Zudov, M.A., University of Minnesota, zudov@physics.umn.edu **PI:** Zudov, M.A., University of Minnesota, zudov@physics.umn.edu **Category:** Semiconductors **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
163	**Title:** Magnetotransport Studies of p-InSb(Mn) Crystals Under Hydrostatic Pressure in High Magnetic Field **First Author:** Obukhov, S.A., A.F.Ioffe Physical Technical Institute, RAS, Saint-Petersburg, Russia , Solid State Electronics, sobukhov@inbox.ru **PI:** Obukhov, S.A., A.F.Ioffe Physical Technical Institute, RAS, Saint-Petersburg, Russia , Solid State Electronics, sobukhov@inbox.ru **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
172	**Title:** Comparing the Optical and Magneto-optical Properties of $CuInS_2$Nanocrystals to their II-VI Binary Analogs **First Author:** Rice, W.D., NHMFL-Los Alamos, crooker@lanl.gov **PI:** Crooker, S.A., NHMFL-Los Alamos, crooker@lanl.gov **Category:** Semiconductors **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
173	**Title:** Magneto-Optical Spectroscopy of Organic Interfaces **First Author:** Crooker, S.A., NHMFL-Los Alamos, crooker@lanl.gov **PI:** Crooker, S.A., NHMFL-Los Alamos, crooker@lanl.gov **Category:** Semiconductors **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
176	**Title:** Persistent Optically Induced Magnetism in Oxygen-Deficient Strontium Titanate **First Author:** Rice, WD, NHMFL-Los Alamos, crooker@lanl.gov **PI:** Crooker, SA, NHMFL-Los Alamos, crooker@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP: Yes** **Submitted to** Nature Materials **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
181	**Title:** Quantum Oscillations in BiTeX (X=Cl, Br) **First Author:** Martin, C., Ramapo College of New Jersey, Engineering Physics, cmartin@phys.ufl.edu **PI:** Tanner, D.B., University of Florida, Physics, tanner@phys.ufl.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP: Yes** **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: Evidence for a \nu = 5/2 Fractional Quantum Hall Nematic State in Parallel Magnetic Fields **First Author:** Liu, Y., Princeton University, Electrical engineering, yltwo@princeton.edu **PI:** Shayegan, M., Princeton University, Electrical engineering, shayegan@princeton.edu	

34	**Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. B PRB 88, 035307 **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
86	**Title:** Fractional Quantum Hall Effect in the Upper Spin Branch of the Second Landau Level **First Author:** Pan, W., Sandia National Laboratory, wpan@sandia.gov **PI:** Pan, W., Sandia National Laboratory, wpan@sandia.gov **Category:** Semiconductors **Facility:** High B/T Facility at UF **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
114	**Title:** The Diminishing Magnetoconductance in High Electric Fields in MoS_2 Flakes **First Author:** Baek, S.J., Seoul National University, sjwhite@phya.snu.ac.kr **PI:** Park, Y.W., Seoul National University, ywpark@phya.snu.ac.kr **Category:** Semiconductors **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
132	**Title:** Effects of Confinement and Strain in Optically Pumped Nuclear Magnetic Resonance in GaAs Quantum Wells **First Author:** Wood, R.M., University of Florida, Chemistry, woodrm@ufl.edu **PI:** Bowers, C.R., University of Florida, Chemistry, bowers@chem.ufl.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP: Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
146	**Title:** High-Field Magnetotransport in Complex Oxide Heterostructures **First Author:** Kajdos, A., University of California, Santa Barbara, Materials Department, akajdos@gmail.com **PI:** Stemmer, S., University of California, Santa Barbara, Materials Department, stemmer@mrl.ucsb.edu **Category:** Semiconductors **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:** High Frequency Magnetotransport in High-Mobility n-AlGaAs/GaAs/AlGaAs Heterostructures in the Fractional Quantum Hall Regime **First Author:** Drichko, I.L., A.F. Ioffe Physicotechnical Institute, irina.l.drichko@mail.ioffe.ru **PI:** Drichko, I.L., A.F. Ioffe Physicotechnical Institute, irina.l.drichko@mail.ioffe.ru **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
Total Reports: 27		