

List Of 2015 Reports

ID#	Title, First Author, and Category	Status
299	<p>Title: Quantum Oscillations in an Interfacial 2D Electron Gas First Author: Zhang, B., Zhejiang University, 11006080@zju.edu.cn PI: Pan, W., Sandia National Labs, wpan@sandia.gov Category: Semiconductors Facility: Pulsed Field Facility at LANL Highest Measured Field: 60 T UCGP: No VSP: No Published in Nano Letters Sign. Achievement: Yes Director's Recommendation: Yes, definitely Director's Comments: None</p>	Approved
385	<p>Title: Probing the Rashba Spin-Splitting in BiTeCl from Angle Dependent SdH Oscillations First Author: Martin, C., Ramapo College of New Jersey, cmartin@phys.ufl.edu PI: Tanner, D. B., University of Florida, Physics, tanner@phys.ufl.edu Category: Semiconductors Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: Yes Director's Recommendation: Yes Director's Comments: None</p>	Approved
12	<p>Title: Shubnikov–de Haas Oscillations in a 2D Electron Gas Under Subterahertz Radiation First Author: Shi, Q., University of Minnesota, Physics, cglyqws@gmail.com PI: Zudov, M.A., University of Minnesota, Physics, zudov@physics.umn.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 2 T UCGP: No VSP: No Published in Phys. Rev. B Rapid Commun. 91, 241303(R) (2015) Sign. Achievement: No Director's Recommendation: Yes Director's Comments: None</p>	Approved
96	<p>Title: Unusual Landau Level Pinning and Correlated Quantum Hall States in 2D Hole Systems First Author: Liu, Y., Princeton University, Electrical Engineering, liuyang02@gmail.com PI: Shayegan, M., Princeton University, Electrical Engineering, shayegan@princeton.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Published in Phys. Rev. B Phys. Rev. B 92, 195156 (2015) Sign. Achievement: Yes Director's Recommendation: Yes Director's Comments: None</p>	Approved
214	<p>Title: Probing the Pressure-Induced Topological Transition in Pb1-xSnxSe First Author: VanGennep, D., University of Florida, Physics, dav08d@ufl.edu PI: Hamlin, J., University of Florida, Physics, jhamlin@ufl.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 35 T UCGP: Yes VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: Yes Director's Comments: None</p>	Approved
217	<p>Title: Photocurrent Generation in Atomically Thin Transition Metal Dichalcogenides First Author: Zhang, X.X., Columbia University, Physics, xz2306@columbia.edu PI: Heinz, T.F., Stanford University, Applied Physics, theinz@stanford.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 17.5 T UCGP: Yes VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
	<p>Title: Observation of $\nu=2/3$ Fractional Quantum Hall Effect in Silicon [111] Surface Electrons First Author: Hu, B., University of Maryland, hubh@mail.umd.edu PI: Kane, B.E., University of Maryland, Laboratory for Physical Sciences, kane@lps.umd.edu Category: Semiconductors</p>	

232	<p>Facility: DC Field Facility Highest Measured Field: 35 T UCGP: No VSP: No Submitted to Physical Review Applied Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
237	<p>Title: Wigner Solid of Quasiholes of the $\nu = 1/2$ Fractional Quantum Hall Effect State First Author: Hatke, A.T., NHMFL/FSU, hatk0002@gmail.com PI: Engel, L.W., NHMFL/FSU, engel@magnet.fsu.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Submitted to Phys Rev X Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
238	<p>Title: Melting Temperatures of Different Solid Phases Near $\nu=1$ First Author: Hatke, A.T., NHMFL/FSU, NHMFL/FSU, hatk0002@gmail.com PI: Engel, L.W., NHMFL/FSU, NHMFL/FSU, engel@magnet.fsu.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
245	<p>Title: Magneto-Optical Spectroscopy of Silver-Doped Colloidal Nanocrystals First Author: Pinchetti, V., University of Milan-Bicocca, crooker@lanl.gov PI: Crooker, S.A., NHMFL-LANL, crooker@lanl.gov Category: Semiconductors Facility: Pulsed Field Facility at LANL Highest Measured Field: 8 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
246	<p>Title: Magnetic Field-Stabilized Electron Hole Liquid in Indirect Bandgap Al_xGa_{1-x}As First Author: Alberi, K., NREL, crooker@lanl.gov PI: Crooker, S.A., NHMFL-LANL, crooker@lanl.gov Category: Semiconductors Facility: Pulsed Field Facility at LANL Highest Measured Field: 90 T UCGP: No VSP: No Submitted to Phys. Rev. B Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
267	<p>Title: Quantum Hall Effect in a High Mobility InAs Heterostructure with a Superconducting Contact First Author: Shojaei, B., University of California at Santa Barbara, Materials Department, borzoyeh@umail.ucsb.edu PI: Palmstrom, C.J., University of California at Santa Barbara, Materials Department and Department of Electrical and Computer Engineering, cpalmstrom@ece.ucsb.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
268	<p>Title: Search for Shubnikov-de Haas Oscillations in Pb_{1-x}Sn_xSe Single Crystals First Author: Martin, C., Ramapo College of NJ, Engineering Physics, cmartin7@ramapo.edu PI: Tanner, D.B., University of Florida, Physics, tanner@phys.ufl.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved

119	<p>Title: Fermi Surface of Pb_{1-x}NaxTe Determined through Shubnikov-de Haas Measurements First Author: Giraldo-Gallo, P., Stanford University, Physics and GLAM, pgiraldog@gmail.com PI: Fisher, I.R., Stanford University, Applied Physics and GLAM, irfisher@stanford.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 35 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
147	<p>Title: Magneto-Optical Studies of Er Optical Centers in GaN at High Magnetic Fields First Author: Vinh, N.Q., Virginia Tech, Physics, Vinh@vt.edu PI: Vinh, N.Q., Virginia Tech, Physics, Vinh@vt.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 17.5 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
173	<p>Title: Electronic Properties of Bulk Unrelaxed Narrow Gap InAs_xSb_{1-x} Alloys First Author: Ludwig, J., NHMFL, jludwig@magnet.fsu.edu PI: Suchalkin, S., State University of New York at Stony Brook, suchalkin@gmail.com Category: Semiconductors Facility: EMR Facility Highest Measured Field: 17 T UCGP: No VSP: No Submitted to Journal of Physics D: Applied Physics Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
203	<p>Title: Infrared Magneto-Spectroscopy Study of Phase Transition in InAs/GaSb Quantum Well Bilayers First Author: Jiang, Y.J., Georgia Institute of Technology, School of physics, yjiang46@gatech.edu PI: Jiang, Z.J., Georgia Institute of Technology, School of Physics, zhiqiang.jiang@physics.gatech.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 17.5 T UCGP: No VSP: Yes Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
204	<p>Title: Optical Pump THz Probe Spectroscopy of GaAs/AlGaAs Two Dimensional Systems First Author: Linn, A.G., University of Alabama at Birmingham, Physics, aglinn@uab.edu PI: Hilton, D.J., University of Alabama at Birmingham, Physics, davidhilton1@gmail.com Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 10 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
13	<p>Title: Spinless Composite Fermions in an Ultrahigh-Quality Strained Ge Quantum Well First Author: Shi, Q., University of Minnesota, Physics, cglyqws@gmail.com PI: Zudov, M.A., University of Minnesota, Physics, zudov@physics.umn.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Published in Phys. Rev. B Rapid Commun. 91, 241303(R) (2015). Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
14	<p>Title: Strong Transport Anisotropy in Ge/SiGe Quantum Wells in Tilted Magnetic Fields First Author: Shi, Q., University of Minnesota, Physics, cglyqws@gmail.com PI: Zudov, M.A., University of Minnesota, Physics, zudov@physics.umn.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Published in Phys. Rev. B Rapid Commun. 91, 201301(R) (2015) & 92, 161405(R) (2015). Sign. Achievement: No</p>	Approved

	Director's Recommendation: No Director's Comments: None	
43	Title: g(2) Measurement of Superfluorescence from a Two-Dimensional Electron-Hole System First Author: Cong, K.C., Rice University, kankan.cong@rice.edu PI: Kono, J.K., Rice University, kono@rice.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 17.5 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None	Approved
57	Title: Temperature and Excitation Dependent Studies of Circular Polarized Emission from Type-II Quantum Dots at High Magnetic Field First Author: Kuskovsky, I.L., Queens College of The City University of New York, Physics, Igor.Kuskovsky@qc.cuny.edu PI: Kuskovsky, I.L., Queens College of The City University of New York, Physics, Igor.Kuskovsky@qc.cuny.edu Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 31 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None	Approved
73	Title: Surface Acoustic Waves Probe of Crossover between Localized States and Wigner Crystal near Filling Factor $\nu=1$ in n-GaAs/AlGaAs Structure First Author: Drichko, I.L., A. F. Ioffe Physico-Technical Institute of Russian Academy of Sciences, irina.l.drichko@mail.ioffe.ru PI: Drichko, I.L., A. F. Ioffe Physico-Technical Institute of Russian Academy of Sciences, irina.l.drichko@mail.ioffe.ru Category: Semiconductors Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Published in Phys. Rev. B 92/20/205313 Sign. Achievement: Yes Director's Recommendation: No Director's Comments: None	Approved
428	Title: Magneto-Optical Spectroscopy of Doped Nanocrystals First Author: Rice, W.D., NHMFL-LANL, crooker@lanl.gov PI: Crooker, S.A., NHMFL-LANL, crooker@lanl.gov Category: Semiconductors Facility: Pulsed Field Facility at LANL Highest Measured Field: 8 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None	Approved
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