List Of 2016 Reports

ID#	Title, First Author, and Category	Status
136	**Title:** Development of Sample-in-Vacuum Probe for Thermal Property Measurements **First Author:** Baek, H, National High Magnetic Field Laboratory, Condensed Matter Science, hbaek@magnet.fsu.edu **PI:** Baek, H, National High Magnetic Field Laboratory, Condensed Matter Science, hbaek@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 31 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
187	**Title:** Vapor Pressure Thermometry and Coulomb Blockade Thermometry in Magnetic Fields for Secondary Thermometer Calibration **First Author:** Ha, J., NHMFL, FSU, jha@magnet.fsu.edu **PI:** Park, J.-H., NHMFL, FSU, jhpark@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 35 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
191	**Title:** Structure Predictions and Polymorphism in Transition Metal Compounds: An LDA+Rotationally-invariant Slave-boson Study **First Author:** Lee, TH, FSU and Maglab, Physics, henhans74716@gmail.com **PI:** Dobrosavljevic, V, FSU and Maglab, Physics, vlad@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** CMT/E **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** New theoretical methods have been used here to provide ab-inition modeling of several correlated oxides, which have long defined proper theoretical understanding. This work opens an exciting new avenue for accurate modeling of quantum materials.	Edited
247	**Title:** Experimental Development for Studying Out-of-Equilibrium Magneto-Transport of Surface State in 3D Topological Insulators **First Author:** Moon, S., NHMFL, FSU Physics, suyurimoon@gmail.com **PI:** Smirnov, D., NHMFL, smirnov@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 14 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
447	**Title:** Continuous Measurement of Heat Capacity as a Function of Field Orientation at Low T **First Author:** Fortune, N.A., Smith College, Physics, nfortune@smith.edu **PI:** Fortune, N.A., Smith College, Physics, nfortune@smith.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 18 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
463	**Title:** Microwave Probe Development for SCM 2 **First Author:** Freeman, M, NHMFL/FSU, mlf14@my.fsu.edu **PI:** Engel, LW, NHMFL/FSU, engel@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 0 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No	Edited

	Director's Recommendation: No **Director's Comments:** None	
17	**Title:** Design and Construction of a Probe for Ultrasonic Measurements at Dilution Refrigerator Temperatures **First Author:** Suslov, A, NHMFL, suslov@magnet.fsu.edu **PI:** Suslov, A, NHMFL, suslov@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 18 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	Edited
283	**Title:** Magnetostriction Measurements of Nd-doped CeRhIn5 under Pressure **First Author:** Rosa, PFS, Los Alamos National Laboratory, MPA-CMMS, pfsrosa@lanl.gov **PI:** Thompson, JD, Los Alamos National Laboratory, MPA-CMMS, jdt@lanl.gov **Category:** Condensed Matter Technique Development **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 0 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
320	**Title:** Technique Development: Broadband Optical Polarimetry in the Single Turn Magnet **First Author:** Stier, AV, NHMFL-LANL, avstier@lanl.gov **PI:** Mielke, CH, NHMFL-LANL, crooker@lanl.gov **Category:** Condensed Matter Technique Development **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 160 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
359	**Title:** Polarization Sensitive Magneto-Raman Spectroscopy on 2D-Layered Materials **First Author:** Thirunavukkuarasu, K, Florida A&M University, Physics, komalavalli.thirunav@famu.edu **PI:** Smirnov, D, NHMFL, smirnov@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** EMR Facility **Highest Measured Field:** 14 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
436	**Title:** Two-Axis Rotation at Low Temperatures Utilizing a Piezo-Driven Platform **First Author:** Graf, D., NHMFL, graf@magnet.fsu.edu **PI:** Graf, D., NHMFL, graf@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 18 T **UCGP:** Yes **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
212	**Title:** Pulsed NMR Spectrometer for Ultra-low Temperature Experiments at Bay 2 of the NHMFL High B/T Facility **First Author:** Huan, C., University of Florida, Physics, huan@ufl.edu **PI:** Huan, C., University of Florida, Physics, huan@ufl.edu **Category:** Condensed Matter Technique Development **Facility:** High B/T Facility at UF **Highest Measured Field:** 2 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
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