

List Of 2015 Reports

ID#	Title, First Author, and Category	Status
287	<p>Title: Ferroelectricity in Metal Organic System at a Spin-State Transition First Author: Chikara, S., LANL, schikara@lanl.gov PI: Zapf, V.S., LANL, vzapf@lanl.gov Category: Magnetism and Magnetic Materials 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, definitely Director's Comments: This is my own report... but I believe it deserves highlight as the first success at using a spin-state transition to create multiferroic behavior, unlike all previous attempts that focus on long-range order.</p>	Approved
193	<p>Title: The Complex T-H Phase Diagram of Ce₃TiSb₅ First Author: Jackson, D., University of Florida, Physics, djackson112358@ufl.edu PI: Hamlin, J., University of Florida, Physics, jhamlin@ufl.edu Category: Magnetism and Magnetic Materials Facility: High B/T Facility at UF Highest Measured Field: 10 T UCGP: Yes VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: Yes, definitely Director's Comments: None</p>	Approved
492	<p>Title: Enhancing Coherence in Molecular Spin Qubits via Atomic Clock Transitions First Author: Komijani, D., FSU, Physics, dk12@my.fsu.edu PI: Hill, S., FSU, Physics, shill@magnet.fsu.edu Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 7 T UCGP: No VSP: No Accepted by Nature Sign. Achievement: Yes Director's Recommendation: Yes, definitely Director's Comments: None</p>	Approved
483	<p>Title: High-Field EPR Studies of the Magnetic Anisotropy in Pseudo-Octahedral VIII Complexes First Author: Saber, M.R., Texas A&M University, Chemistry, mohamed.saber@mail.chem.tamu.edu PI: Dunbar, K.R., Texas A&M University, Chemistry, dunbar@mail.chem.tamu.edu Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 35 T UCGP: Yes VSP: No Publication Status: Manuscript in preparation Sign. Achievement: Yes Director's Recommendation: Yes Director's Comments: None</p>	Approved
269	<p>Title: Giant Suppression of Phononic Heat Transport in a Quantum Magnet BiCu₂PO₆ First Author: Jeon, B.-G., Seoul National University, Department of Physics & Astronomy, pseudophys@gmail.com PI: Kim, K.H., Seoul National University, Department of Physics & Astronomy, optopia@snu.ac.kr Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 35 T UCGP: No VSP: No Submitted to Phys. Rev. Lett. Sign. Achievement: No Director's Recommendation: Yes Director's Comments: None</p>	Approved
284	<p>Title: Ferroelectricity at a Spin-State Transition First Author: Chikara, S., LANL, schikara@lanl.gov PI: Zapf, V.S., LANL, vzapf@lanl.gov Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 35 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: Yes Director's Recommendation: Yes Director's Comments: None</p>	Approved
	<p>Title: High-Field EPR Studies of Mononuclear Single-Molecule Magnets with Giant Uniaxial Magnetic Anisotropy First Author: Marriott, K.E.R, University of Glasgow, Chemistry, Katie.Marriott@glasgow.ac.uk</p>	

474	<p>PI: Murrie, M., University of Glasgow, Chemistry, Mark.Murrie@glasgow.ac.uk Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 35 T UCGP: Yes VSP: No Published in Chemical Science 6, 6823-6828 (2015) Sign. Achievement: Yes Director's Recommendation: Yes Director's Comments: None</p>	Approved
177	<p>Title: Magnetic Phases of Quasi-2D Antiferromagnet on Triangular Lattice CuCrO₂ First Author: Sakhratov, Y.A., Kazan State Power Engineering University, sakhratov@gmail.com PI: Sakhratov, Y.A., Kazan State Power Engineering University, sakhratov@gmail.com Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 45 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: Yes Director's Recommendation: Yes Director's Comments: None</p>	Approved
212	<p>Title: Magnetometry of the Candidate Kitaev Honeycomb Magnet α-RuCl₃ First Author: Singleton, J., NHMFL, jsingle@lanl.gov PI: Coldea, R., University of Oxford, Radu.Coldea@physics.ox.ac.uk Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T UCGP: No VSP: No Published in Phys. Rev. B 92 235119 Sign. Achievement: No Director's Recommendation: Yes Director's Comments: None</p>	Approved
231	<p>Title: Magnetoresistance in i-R-Cd Icosahedral Quasicrystals (R=Y, Gd) First Author: Saraswat, G., NHMFL, gsaraswat@magnet.fsu.edu PI: Popovic, D., NHMFL, dragana@magnet.fsu.edu Category: Magnetism and Magnetic Materials Facility: CMT/E UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: Yes Director's Comments: There is currently considerable renewed interest in quasi-crystals, with focus on the role of strong correlation effects in the presence of fractal electronic states generically present in these materials. Possible connections to Hofstadter butterfly effects may be found.</p>	Approved
108	<p>Title: Tracking the Continuous Spin-Flop Transition in Ni₃TeO₆ by Infrared Spectroscopy First Author: Musfeldt, J.L., University of Tennessee, Chemistry, musfeldt@utk.edu PI: Musfeldt, J.L., University of Tennessee, Chemistry, musfeldt@utk.edu Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 35 T UCGP: No VSP: Yes Published in Phys. Rev. B 92 144305 Sign. Achievement: No Director's Recommendation: Yes Director's Comments: None</p>	Approved
109	<p>Title: Magnetoelectric Coupling through the Spin-Flop Transition in Ni₃TeO₆ First Author: Musfeldt, J.L., University of Tennessee, Chemistry, musfeldt@utk.edu PI: Musfeldt, J.L., University of Tennessee, Chemistry, musfeldt@utk.edu Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 35 T UCGP: No VSP: Yes Submitted to Phys. Rev. Lett. Sign. Achievement: Yes Director's Recommendation: Yes Director's Comments: None</p>	Approved
129	<p>Title: Multifunctional Organized Systems Based on Cobalt(II) Single-Ion Magnets First Author: Vallejo, J., PhD student, julia.vallejo@uv.es PI: Cano, J., Senior Scientist, joan.cano@uv.es Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 17 T UCGP: No VSP: No Accepted by Chemical Science Sign. Achievement: Yes Director's Recommendation: Yes Director's Comments: None</p>	Approved

148	<p>Title: Mapping the Fermi Surface of the Colossal Magnetoresistive Manganites First Author: Brambleby, J., University of Warwick, Physics, J.D.Brambleby@warwick.ac.uk PI: Goddard, P.A., University of Warwick, Physics, P.Goddard@warwick.ac.uk Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: Yes Director's Comments: None</p>	Approved
152	<p>Title: Dielectric Constant Studies on the New Magnetic Quantum Paraelectric Material BaFe₁₂O₁₉ First Author: Lee, M., National High Magnetic Field Laboratory, mlee@magnet.fsu.edu PI: Choi, E.S., National High Magnetic Field Laboratory, echoi@magnet.fsu.edu Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Published in APL Materials 3//062512 Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
153	<p>Title: Magnetic and Electric Properties of FeTa₂O₆ First Author: Lee, M., National High Magnetic Field Laboratory, mlee@magnet.fsu.edu PI: Choi, E.S., National High Magnetic Field Laboratory, mlee@magnet.fsu.edu Category: Magnetism and Magnetic Materials 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
155	<p>Title: 133Cs NMR Study of Two Transitions in the Triangular Lattice Antiferromagnetic CsV(MoO₄)₂ First Author: Kweon, K., National High Magnetic Field Laboratory, Condensed Matter Science, jkkweon@magnet.fsu.edu PI: Choi, E.S., National High Magnetic Field Laboratory, Condensed Matter Science, echoi@magnet.fsu.edu Category: Magnetism and Magnetic Materials 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
157	<p>Title: Superparamagnetism in the Martensitic Phase of Ni_{50-x}CoxMn₄₀Sn₁₀ First Author: Yuan, S., National High Magnetic Field Laboratory, sy08@my.fsu.edu PI: Hoch, M.J.R., National High Magnetic Field Laboratory, hoch@magnet.fsu.edu Category: Magnetism and Magnetic Materials Facility: CMT/E UCGP: No VSP: Yes Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
170	<p>Title: Magneto-Raman Spectroscopy on Correlated Electron System CaMn₇O₁₂ First Author: Thirunavukkuarasu, K., NHMFL, komalavalli@magnet.fsu.edu PI: Smirnov, D., NHMFL, smirnov@magnet.fsu.edu Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 12 T UCGP: Yes VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
175	<p>Title: Annual Report for Interplay of Magnetism and Topological Phases First Author: Suzuki, T., MIT, Physics, takehito@mit.edu PI: Checkelsky, J.G., MIT, Physics, checkelsky@mit.edu Category: Magnetism and Magnetic Materials 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</p>	Approved

	Director's Comments: None	
137	<p>Title: HFEPR Investigations of (i) Anisotropy of Magnetic Clusters, and (ii) Quantum Mechanical Interactions between Structural Building Units in Polymers First Author: Lampropoulos, C., University of North Florida, Chemistry, c.lampropoulos@unf.edu PI: Lampropoulos, C., University of North Florida, Chemistry, c.lampropoulos@unf.edu Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 17 T UCGP: No VSP: No Submitted to Inorg. Chem. Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
140	<p>Title: Avalanches and Hysteresis at the Structural Transition in Stripe-Ordered La_{1.48}Nd_{0.4}Sr_{0.12}CuO₄ First Author: Baity, P.G., NHMFL, Physics, baity@magnet.fsu.edu PI: Popovic, D., NHMFL, dragana@magnet.fsu.edu Category: Magnetism and Magnetic Materials Facility: CMT/E UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
143	<p>Title: Probing Molecular Magnetism by Infrared and Raman Spectroscopies in Magnetic Fields First Author: Moseley, D.H., University of Tennessee, Knoxville, Chemistry, dmosele4@utk.edu PI: Xue, Z.-L., University of Tennessee, Knoxville, Chemistry, xue@utk.edu Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 16 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
112	<p>Title: Direct Band Gaps in Multiferroic h-LuFeO₃ First Author: Musfeldt, J.L., University of Tennessee, Chemistry, musfeldt@utk.edu PI: Musfeldt, J.L., University of Tennessee, Chemistry, musfeldt@utk.edu Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 25 T UCGP: No VSP: No Published in Appl. Phys. Lett. 106, 082902 Sign. Achievement: Yes Director's Recommendation: No Director's Comments: None</p>	Approved
121	<p>Title: Spin Crossover in Fe(II) Complexes with N₄S₂ Coordination First Author: Arroyave, A., Florida State University, Chemistry and Biochemistry, aa10g@my.fsu.edu PI: Shatruk, M., Florida State University, Chemistry and Biochemistry, shatruk@chem.fsu.edu Category: Magnetism and Magnetic Materials Facility: EMR Facility 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
51	<p>Title: First Observation of Two Qubits in the Ground State Spin Manifold in a Molecular Species First Author: Fataftah, M.S., Northwestern University, Chemistry, michaelgraham2012@u.northwestern.edu PI: Freedman, D.E., Northwestern University, Chemistry, danna.freedman@northwestern.edu Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 1 T UCGP: No VSP: No Submitted to J. Am. Chem. Soc. Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
61	<p>Title: Pressure Dependence of the Exchange Anisotropy in an Organic Ferromagnet First Author: Winter, S.M., University of Waterloo, Department of Chemistry, winter@physik.uni-frankfurt.de PI: Oakley, R.T., University of Waterloo, Department of Chemistry, oakley@uwaterloo.ca Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 7 T UCGP: No VSP: No Published in Phys. Rev. B 91/ 014412</p>	Approved

	Sign. Achievement: Yes Director's Recommendation: No Director's Comments: None	
67	Title: Antiferromagnetic Ordering in Pyrochlore Yb ₂ Ge ₂ O ₇ First Author: Zhou, Z.H., University of Tennessee/National high magnetic field lab, physics, hzhou10@utk.edu PI: Zhou, Z.H., University of Tennessee/National high magnetic field lab, physics, hzhou10@utk.edu Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: Yes Published in Phys. Rev. B 92, 140407(R) (2015) Sign. Achievement: Yes Director's Recommendation: No Director's Comments: None	Approved
74	Title: 77Se NMR Study of the Coupled Spin-Tetramer Compound CuSeO ₃ First Author: Lee, W.-J., Chung-Ang university, wonjunleecau@gmail.com PI: Choi, K.-Y., Chung-Ang university, kchoi@cau.ac.kr Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 17 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None	Approved
86	Title: Characterization of Nickel Based Spin-One Antiferromagnets First Author: Blackmore, W.J.A, University of Warwick, Physics, W.J.A.Blackmore@warwick.ac.uk PI: Manson, J.L., Eastern Washington University, Chemistry and Biochemistry, jmanson@ewu.edu Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 15 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None	Approved
89	Title: HF-ESR Characteristics of Paramagnetic Ag(2+) Sites in Several Prototypical Fluoride Systems First Author: Grochala, W., Univ. Warsaw, CeNT, w.grochala@cent.uw.edu.pl PI: Grochala, W., Univ. Warsaw, CeNT, w.grochala@cent.uw.edu.pl Category: Magnetism and Magnetic Materials 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	Approved
94	Title: S/TEM Study of Magnesium-Copper Nano-Clusters by Helium Droplet Mediated Deposition First Author: Xin, Y., National High Magnetic Field Laboratory, xin@magnet.fsu.edu PI: Xin, Y., National High Magnetic Field Laboratory, xin@magnet.fsu.edu Category: Magnetism and Magnetic Materials Facility: MS & T UCGP: No VSP: No Published in J. Chem. Phys. 142, 084307 (2015) Sign. Achievement: No Director's Recommendation: No Director's Comments: None	Approved
288	Title: High Coercive Magnetic Fields in a New Iridate First Author: Chikara, S., LANL, schikara@lanl.gov PI: Zapf, V.S., LANL, vzapf@lanl.gov Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None	Approved
292	Title: Investigation of an Itinerant Antiferromagnet in High Magnetic Fields First Author: Svanidze, E., Rice University, Physics, eteri@alumni.rice.edu PI: Morosan, E., Rice University, Physics, emorosan@rice.edu Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T	Approved

	<p>UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	
293	<p>Title: Unusual Magnetic and Pressure Response of an S = 1 Antiferromagnetic, Quasi-One-Dimensional Chain near the D/J ~ 1 Critical Point First Author: Peprah, M.K., UF Physics, Physics, peprah@phys.ufl.edu PI: Meisel, M.W., UF Physics, Physics, meisel@phys.ufl.edu Category: Magnetism and Magnetic Materials Facility: UF Physics UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
294	<p>Title: BaTb2O4 - a Large Moment Spin Liquid Candidate First Author: Zapf, V.Z., LANL, vzapf@lanl.gov PI: Zapf, V.Z., LANL, vzapf@lanl.gov Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 12 T UCGP: No VSP: No Published in Phys. Rev. B Rapid Commun. Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
296	<p>Title: Non-Resonant Absorption in the Kagome-Lattice Metamagnet Cu3Bi(SeO3)2Br First Author: Zorko, A., Jožef Stefan Institute, andrej.zorko@ijs.si PI: Zorko, A., Jožef Stefan Institute, andrej.zorko@ijs.si Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 14 T UCGP: No VSP: No Accepted by AIP Advances Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
302	<p>Title: Pulsed-Field Magnetocaloric Effect in Low-Dimensional Magnets First Author: Brambleby, J., University of Warwick, Physics, J.D.Brambleby@warwick.ac.uk PI: Goddard, P.A., University of Warwick, Physics, P.Goddard@warwick.ac.uk Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 30 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
305	<p>Title: Understanding the Nature of Magnetism in Transition-Metal Substituted Phthalocyanines through High-Field, Low-Temperature Magnetic Measurements at the NHMFL First Author: Seehra, M., West Virginia University, Department of Physics and Astronomy, mseehra@wvu.edu PI: Seehra, M., West Virginia University, Department of Physics and Astronomy, mseehra@wvu.edu Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 18 T UCGP: No VSP: No Submitted to J. Magn. Magn. Mater. Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
314	<p>Title: Magnetic Criticality Controlled by Magnetic Field Sweep in La1-xSrxCoO3 First Author: Chikara, S., NHMFL-PFF, schikara@lanl.gov PI: Chikara, S., NHMFL-PFF, schikara@lanl.gov Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 60 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
	<p>Title: Lu2MnCoO6 Single Crystal Multiferroic Behavior First Author: Chikara, S., NHMFL-PFF, schikara@lanl.gov PI: Chikara, S., NHMFL-PFF, schikara@lanl.gov</p>	

315	<p>Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 60 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
331	<p>Title: Magnetization of a New Kagome Antiferromagnet First Author: Han, T.H., University of Chicago, Physics, tianheng@alum.mit.edu PI: Han, T.H., University of Chicago, Physics, tianheng@alum.mit.edu Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 60 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
344	<p>Title: Incommensurate Spin Density Wave at a Ferromagnetic Quantum Critical Point in a Three-Dimensional Parabolic Semimetal First Author: Murray, J.M., NHMFL, james.murray1@gmail.com PI: Vafek, O., FSU/NHMFL, vafek@magnet.fsu.edu Category: Magnetism and Magnetic Materials Facility: CMT/E UCGP: No VSP: No Published in Phys. Rev. B vol 92, page 035137 Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
346	<p>Title: Increasing Coherence Times In Molecular Quantum Bits First Author: van Slageren, J., University of Stuttgart, Institute of Physical Chemistry, slageren@ipc.uni-stuttgart.de PI: van Slageren, J., University of Stuttgart, Institute of Physical Chemistry, slageren@ipc.uni-stuttgart.de Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 8.75 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
358	<p>Title: Phase Diagram of the Quasi-Two-Dimensional Antiferromagnet USb₂ Via Fiber Bragg Dilatometry in Pulsed Magnetic Fields First Author: Stillwell, R.L., Lawrence Livermore National Laboratory, stillwell4@llnl.gov PI: Butch, N.P., NIST Center for Neutron Research and University of Maryland, Physics, Center for Nanophysics and Advanced Materials, nicholas.butch@nist.gov Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
359	<p>Title: Phase Diagram of the Quasi-Two-Dimensional Antiferromagnet USb₂ Via Extraction Coil Magnetometry In Pulsed Magnetic Fields First Author: Stillwell, R.L., Lawrence Livermore National Laboratory, stillwell4@llnl.gov PI: Butch, N.P., NIST Center for Neutron Research and University of Maryland, Physics, Center for Nanophysics and Advanced Materials, nicholas.butch@nist.gov Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
378	<p>Title: Tuned Geometrical Frustration in Ba₂MSi₂O₆Cl₂, M = Cu, Co from Magnetostriction in Pulsed Magnetic Fields First Author: Jaime, M., LANL, MPA-CMMS, mjaime@lanl.gov PI: Tanaka, H., TiTECH, Tokyo, Japan, tanaka@lee.phys.titech.ac.jp Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 60 T</p>	Approved

	<p>UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	
379	<p>Title: Li₂O(CuSO₄)₂: A Rare Realization of Frustrated Spin-1/2 Two-Leg Ladder? First Author: Rouse, G., Collège de France, Paris, France, gwenaelle.rousse@college-de-france.fr PI: Radtke, G., Université Pierre et Marie Curie, Paris, France, guillaume.radtke@impmc.upmc.fr Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 60 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
384	<p>Title: Magnetostriction of UN Single Crystals in Pulsed Magnetic Fields up to 65 T First Author: Shrestha, K., Idaho National Laboratory, keshav.shrestha@inl.gov PI: Gofryk, K., Idaho National Laboratory, krzysztof.gofryk@inl.gov Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
403	<p>Title: High Field EPR Study of Novel 3d-4f Heterobimetallics and Cu₃(TeO₄)(SO₄)•H₂O First Author: Diefenbach, K., FSU, Chemistry, kariemdiefenbach@gmail.com PI: Albrecht-Schmitt, T., FSU, Chemistry, talbrechtschmitt@gmail.com Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 12.5 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
424	<p>Title: Strong Magnetoelectric Coupling in Ti Doped Ca₃Ru₂O₇ Single Crystal in Pulsed Magnetic Fields First Author: Lei, S., Penn State, Physics, sul46@psu.edu PI: Gopalan, V., Penn State, vgopalanpsu@gmail.com Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
445	<p>Title: Mössbauer Studies on Magnetic Nanoparticles First Author: Spizzo, F., University of Ferrara, Department of Physics and Earth Sciences, federico.spizzo@unife.it PI: Spizzo, F., University of Ferrara, Department of Physics and Earth Sciences, federico.spizzo@unife.it Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 8 T UCGP: Yes VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
470	<p>Title: Probing Dopant Sites in Fe Doped ZnSe Dilute Magnetic Quantum Dots Using High Frequency EPR First Author: Bindra, J.K., Florida State University, Department of Chemistry and Biochemistry, jbindra@chem.fsu.edu PI: Dalal, N.S., Florida State University, Department of Chemistry and Biochemistry, dalal@chem.fsu.edu Category: Magnetism and Magnetic Materials Facility: EMR Facility Highest Measured Field: 12 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: Yes Director's Recommendation: No Director's Comments: None</p>	Approved
	<p>Title: AC Magnetic Susceptibility of Ba₃Co₂O₆(CO₃)_{0.7} First Author: Xia, J.X., NHMFL, High-B/T Facility, jsxia@phys.ufl.edu</p>	

254	<p>PI: Zhou, H.D., University of Tennessee, Physics, hzhou10@utk.edu Category: Magnetism and Magnetic Materials Facility: High B/T Facility at UF Highest Measured Field: 5 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
258	<p>Title: Anisotropic Magnetoresistance Effect in the Ordered Cubic Systems First Author: Shimura, Y.S., The Institute for Solid State Physics, simu@issp.u-tokyo.ac.jp PI: Nakatsuji, S.N., The Institute for Solid State Physics, satoru@issp.u-tokyo.ac.jp Category: Magnetism and Magnetic Materials 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
262	<p>Title: Specific Heat of Yb₂Ti₂O₇ First Author: Padgett, A.S., University of Florida, padgetta@phys.ufl.edu PI: Sun, X.F., University of Science and Technology of China, Hefei National Laboratory for Physical Sciences at Microscale, xfsun@ustc.edu.cn Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 12 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Editing
179	<p>Title: Quantum Criticality in a Frustrated Quantum Magnet First Author: Maesato, M., Kyoto University, Division of Chemistry, maesato@kuchem.kyoto-u.ac.jp PI: Maesato, M., Kyoto University, Division of Chemistry, maesato@kuchem.kyoto-u.ac.jp Category: Magnetism and Magnetic Materials 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
190	<p>Title: Specific Heat and Magnetization of Ba₃Co₂O₆(CO₃)_{0.7} First Author: Padgett, A.S., UF, Physics, padgetta@ufl.edu PI: Takano, Y., UF, Physics, takano@phys.ufl.edu Category: Magnetism and Magnetic Materials 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
205	<p>Title: High Magnetic Field Annealing of Mn-Ga Intermetallic Alloys First Author: Brown, D., Florida State University, Material Science and Engineering, dbrown@magnet.fsu.edu PI: Han, K., National High Magnetic Field Laboratory, Magnet Science and Technology, han@magnet.fsu.edu Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 31 T UCGP: No VSP: No Submitted to MRS Advances Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
211	<p>Title: Ising-like In-Plane Magnetic Anisotropy in a 2D Honeycomb Lattice Magnet First Author: Leahy, I.A., Univeristy of Colorado Boulder, Physics, ian.leahy@colorado.edu PI: Lee, M., Univeristy of Colorado Boulder, Physics, minhyea.lee@colorado.edu Category: Magnetism and Magnetic Materials 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

482	<p>Title: The Origin of Ferromagnetism in Gd-Doped Nanoparticles First Author: Franco Jr, A., Instituto de Física, Universidade Federal de Goiás, Brazil, afrancojunior@gmail.com PI: Franco Jr, A., Instituto de Física, Universidade Federal de Goiás, Brazil, afrancojunior@gmail.com Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 13 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
488	<p>Title: Magnetization & Magnetostriction Measurements of the $S = \frac{1}{2}$ One-Dimensional Heisenberg Antiferromagnet beta-TeVO₄ First Author: Weickert, F., MPA CMMS, Lanl, weickert.ph@gmail.com PI: Weickert, F., MPA CMMS, Lanl, weickert.ph@gmail.com Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 60 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
512	<p>Title: Spin-Peierls Transition in the $S=1/2$ Compound TiPO₄ with Large Intrachain Coupling First Author: Stern, R., NICPB, Tallin, Estonia, raivo.stern@kbfi.ee PI: Stern, R., NICPB, Tallin, Estonia, raivo.stern@kbfi.ee Category: Magnetism and Magnetic Materials Facility: Pulsed Field Facility at LANL Highest Measured Field: 65 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
515	<p>Title: Systematic Pressure Control of Dimensionality in Cs₂CuBr₄ First Author: Toth, S., Paul Scherrer Institut, sandor.toth@psi.ch PI: Rüegg, C., Paul Scherrer Institut, christian.rueegg@psi.ch Category: Magnetism and Magnetic Materials Facility: DC Field Facility Highest Measured Field: 34.5 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
Total Reports: 64		