List Of 2014 Reports

ID#	Title, First Author, and Category	Status
4	**Title:** Anomalous Fermi Surface in Fese Seen by Shubnikov-De Haas Measurements **First Author:** Terashima, T, NIMS, TERASHIMA.Taichi@nims.go.jp **PI:** Terashima, T, NIMS, TERASHIMA.Taichi@nims.go.jp **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 90, 144517 (2014) **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
78	**Title:** Transport Limited by Emergent Defect States in Fe-Based Superconductors **First Author:** Hirschfeld, P.J., U. Florida, Dept. of Physics, pjh@phys.ufl.edu **PI:** Hirschfeld, P.J., U. Florida, Dept. of Physics, pjh@phys.ufl.edu **Category:** Superconductivity - Basic **Facility:** UF Physics **UCGP:** No **VSP:** No **Published in** Phys. Rev. Lett. 113, 127001 **Sign. Achievement:** No **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
199	**Title:** Renormalization Group Study Of Ordered Phases In Two-Dimensional Quadratic Band Touching Systems **First Author:** Murray, J. M., NHMFL, jmurray@magnet.fsu.edu **PI:** Vafek, O, NHMFL, FSU, vafek@magnet.fsu.edu **Category:** Superconductivity - Basic **Facility:** CMT/E **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 89, 201110 **Sign. Achievement:** No **Director's Recommendation:** **Yes** **Director's Comments:** This work has received significant national and international publicity, providing interesting new insight into the pairing mechanism of unconventional superconductors. It is based on a technically controlled, yet novel renormalization group approach for itinerant fermions.	Editing
209	**Title:** Oxide-Interface-Based Quantum Wires **First Author:** Dagan, Y, Tel Aviv University, School of Physics and Astronomy, yodagan@post.tau.ac.il **PI:** Dagan, Y, Tel Aviv University, School of Physics and Astronomy, yodagan@post.tau.ac.il **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. Lett. 113/216801 **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
216	**Title:** Evidence for a Small Hole Pocket in the Fermi Surface of Underdoped YBa2Cu3Oy **First Author:** Doiron-Leyraud, N., Université de Sherbrooke, Physics, Nicolas.Doiron-Leyraud@USherbrooke.ca **PI:** Taillefer, L., Université de Sherbrooke, Physics, Louis.Taillefer@USherbrooke.ca **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Accepted by** Nature Communications **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
184	**Title:** Evolution of the Energy Spectrum of Underdoped Cuprates in the Pseudogap Phase with Temperature and Dopants Concentration **First Author:** Gor'kov, L. P., FSU,NHMFL, CMS/Theory, gorkov@magnet.fsu.edu **PI:** Gor'kov, L. P., FSU,NHMFL, CMS/Theory, gorkov@magnet.fsu.edu **Category:** Superconductivity - Basic **Facility:** CMT/E **UCGP:** No **VSP:** No **Submitted to** Sci. Reports **Sign. Achievement:** No **Director's Recommendation:** **Yes** **Director's Comments:** This is an interesting and fresh look at the long-puzzling issue of pairing in cuprates, and its relation to charge order and other incipient instabilities.	Editing
244	**Title:** 75As NMR Investigations on BaFe1.993Mn0.007As2 Single Crystal **First Author:** Lesseux, GG, Universidade Estadual de Campinas, DEQ-IFGW, lesseux@gmail.com **PI:** Urbano, RR, Universidade Estadual de Campinas, urbano@ifi.unicamp.br **Category:** Superconductivity - Basic **Facility:** UF Physics **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation	Editing

	Sign. Achievement: No **Director's Recommendation:** Yes **Director's Comments:** None	
277	**Title:** Shubnikov de-Haas Study of the Fermi Surfaces of Lithium (Li) at High Pressure **First Author:** deemyad, SD, University of Utah, University of Utah, deemyad@physics.utah.edu **PI:** deemyad, SD, University of Utah, University of Utah, deemyad@physics.utah.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Editing
305	**Title:** Field Dependent NMR Study of Glassy Spin Freezing in Ba(Fe1-xCox)2As2 **First Author:** Dioguardi, A. P., UC Davis, Physics, adioguardi@ucdavis.edu **PI:** Curro, N. J., UC Davis, Physics, curro@physics.ucdavis.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
316	**Title:** Doping Evolution of the Anisotropic Upper Critical Field in Iron-Based Superconductor Ba1-xKxFe2As2 **First Author:** Tanatar, M. A., Ames Laboratory, tanatar@ameslab.gov **PI:** Prozorov, R., Ames Laboratory, prozorov@ameslab.gov **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
317	**Title:** Thermal Conductivity and Torque Magnetization in YBa2Cu3O6.6 in High Magnetic Fields **First Author:** Hirschberger, M., Princeton University, Physics, mhirschb@princeton.edu **PI:** Ong, N. P., Princeton University, Physics, npo@princeton.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** Nature Physics **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
318	**Title:** Signatures of the Berezinskii-Kosterlitz-Thouless Transition in Highly Underdoped La2-xSrxCuO4 **First Author:** Shi, Z., NHMFL, zshi@magnet.fsu.edu **PI:** Popovic, D., NHMFL, dragana@magnet.fsu.edu **Category:** Superconductivity - Basic **Facility:** CMT/E **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
319	**Title:** Magnetic-Field-Driven Superconductor-Insulator Transition in Stripe-Ordered La1.48Nd0.4Sr0.12CuO4 **First Author:** Baity, P., NHMFL, baity@magnet.fsu.edu **PI:** Popovic, D., NHMFL, dragana@magnet.fsu.edu **Category:** Superconductivity - Basic **Facility:** CMT/E **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
326	**Title:** High Field Magneto-Transport Near a Quantum Critical Point in High Temperature Superconductors **First Author:** Hayes, I. M., University of California, Berkeley, Physics, imhayes@berkeley.edu **PI:** Analytis, J. G., University of California, Berkeley, Physics, analytis@berkeley.edu **Category:** Superconductivity - Basic **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	Editing
	Title: Pulsed Field AMRO on YBa¬2Cu3O6+x Using High-Stability Cryogenics **First Author:** Ramshaw, B.J., Los Alamos National Laboratory, bradramshaw@gmail.com	

339	**PI:** Goddard, P., University of Warwick, Department of physics, p.goddard@warwick.ac.uk **Category:** Superconductivity - Basic **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	Editing
406	**Title:** Strong Flux Pinning In Potassium Doped BaFe2As2 Thin Film **First Author:** Jo, Y.J., Kyungpook National University, Physics, joyj121@gmail.com **PI:** Jo, Y.J., Kyungpook National University, Physics, joyj121@gmail.com **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
432	**Title:** 17O NMR Study of Under-doped Single Crystals of the High Temperature Superconducting Compound Hg1201 **First Author:** Lee, J.A., Northwestern University, Physics, jalee@u.northwestern.edu **PI:** Halperin, W.P., Northwestern University, Physics, w-halperin@northwestern.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
435	**Title:** Critical Fields of P-doped Ba-122 Thin Films **First Author:** Haenisch, J, Karlsruhe Institute of Technology, jens.haenisch@kit.edu **PI:** Haenisch, J, Karlsruhe Institute of Technology, jens.haenisch@kit.edu **Category:** Superconductivity - Basic **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	Editing
452	**Title:** Contactless Measurement of Magneto-Conductivity of the Cuprate High-Tc Superconductor HgBa2CuO4+δ **First Author:** Chan, M.K., Los Alamos Natl Lab, mchan053@gmail.com **PI:** Harrison, N., Los Alamos Natl Lab, nharrison@lanl.gov **Category:** Superconductivity - Basic **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	Editing
463	**Title:** Torque Magnetometry in the 60 T Long Pulse Magnet **First Author:** Li, Lu, University of Michigan, Physics, luli@umich.edu **PI:** Li, Lu, University of Michigan, Physics, luli@umich.edu **Category:** Superconductivity - Basic **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	Editing
474	**Title:** COMBE Samples Consistency Test via Transport and Thermodynamic Measurements **First Author:** Stegen, Z, Florida State University, stegen@magnet.fsu.edu **PI:** Bozovic, I, Brookhaven National Lab, bozovic@bnl.gov **Category:** Superconductivity - Basic **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	Editing
475	**Title:** Non-Fermi Liquid Magneto-Transport In High-Temperature Superconductor LSCO **First Author:** Stegen, Z, Florida State University, stegen@magnet.fsu.edu **PI:** Bozovic, I., Brookhaven National Lab, bozovic@bnl.gov **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL	Editing

	UCGP: No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
1	**Title:** Determination of the Upper Critical Field of Cuprates by Electrical Transport Under High Magnetic Field **First Author:** Wu, J, Brookhaven National Laboratory, jwu@bnl.gov **PI:** Bozovic, I, Brookhaven National Laboratory, bozovic@bnl.gov **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
271	**Title:** Upper Critical Fields of the Natural Heterostructure of Fe Pnictides and V Oxides **First Author:** Ok, J. M., POSTECH, Physics, dynamicjm@postech.ac.kr **PI:** Kim, J. S., POSTECH, Physics, js.kim@postech.ac.kr **Category:** Superconductivity - Basic **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	Editing
274	**Title:** T,H=const) and (H,T) Phase Diagram Determination for Fe(SeXTe1-X) **First Author:** Salamon, M. B., LANL, salamon@utdallas.edu **PI:** Cornell, N. L., University of Texas at Dallas Nanotech Institute, Physics, nlc081000@utdallas.edu **Category:** Superconductivity - Basic **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	Editing
194	**Title:** High-field Study of Superconducting Thallium Doped Lead Telluride (Pb1-xTlxTe) **First Author:** Giraldo-Gallo, P., Stanford University, Physics and GLAM, pgiraldo@stanford.edu **PI:** Fisher, I. R., Stanford University, Applied Physics and GLAM, irfisher@stanford.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
230	**Title:** Low Temperature Heat Capacity Studies of La1.92Sr0.08CuO4 at Magnetic Fields to 32T **First Author:** Moir, C., NHMFL, FSU, Physics, moir@magnet.fsu.edu **PI:** Mandrus, D., University of Tennessee, Knoxville, dmandrus@utk.edu **Category:** Superconductivity - Basic **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	Editing
235	**Title:** High Field Heat Capacity of Two Dopings of YBCO **First Author:** Kemper, J. B., Florida State Univ., Physics, kemper@magnet.fsu.edu **PI:** Boebinger, G. S., Florida State Univ./NHMFL, gsb@magnet.fsu.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** Nature Physics **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
79	**Title:** Spin Fluctuation Calculations of Pairing in Ammoniated FeSe **First Author:** Hirschfeld, P.J., U. Florida, pjh@phys.ufl.edu **PI:** Hirschfeld, P.J., U. Florida, pjh@phys.ufl.edu **Category:** Superconductivity - Basic **Facility:** UF Physics **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. Lett. **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
	Title: High-Field NMR Study of the Spin Fluctuations in High-Tc Iron Based Superconductors	

80	**First Author:** Li, Z, Institute of Physics, Chinese Academy of Sciences, lizheng@iphy.ac.cn **PI:** Zheng, GQ, Okayama University, zheng@psun.phys.okayama-u.ac.jp **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
126	**Title:** Kohler's Rule in the Cuprate Superconductor 〖Nd〗_(2-x) 〖Ce〗_x CuO_(4+δ) **First Author:** Li, Y, University of Minnesota, School of Physics and Astronomy, yl@physics.umn.edu **PI:** Greven, M, University of Minnesota, School of Physics and Astronomy, greven@physics.umn.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
136	**Title:** Ion Irradiation to Iron-Chalcogenide Superconducting Films **First Author:** Ozaki, TO, Brookhaven National Laboratory, tozaki@bnl.gov **PI:** Li, QL, Brookhaven National Laboratory, liqiang@bnl.gov **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
172	**Title:** NMR Search for Charge Order in HgBa2CuO4+δ **First Author:** Hirata, M, LNCMI-CNRS Grenoble, michihiro.hirata@lncmi.cnrs.fr **PI:** Julien, MH, LNCMI-CNRS grenoble, marc-henri.julien@lncmi.cnrs.fr **Category:** Superconductivity - Basic **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	Editing
179	**Title:** Kohler's Rule and Planar Resistivity in the Cuprate Superconductor Hg 〖Ba〗_2 CuO_(4+δ) **First Author:** Chan, M. K., University of Minnesota, School of Physics and Astronomy, Mun K Chan **PI:** Greven, M, University of Minnesota, School of Physics and Astronomy, greven@physics.umn.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. Lett. 113, 177005 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
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