List Of 2016 Reports

ID#	Title, First Author, and Category	Status
5	**Title:** Pressure and high-Tc Superconductivity in Sulfur Hydrides **First Author:** Gorkov, L P, FSU, NHMFL, gorkov@magnet.fsu.edu **PI:** Gorkov, L P, FSU, NHMFL, gorkov@magnet.fsu.edu **Category:** Superconductivity - Basic **Facility:** CMT/E **UCGP:** No **VSP:** No **Published in** Nature Scientific Reports 6:256086 **Sign. Achievement:** No **Director's Recommendation: Yes, definitely** **Director's Comments:** Newly discovered high-Tc superconductivity in hydrogen materials under ultra-high pressure is one of the most exciting new discoveries in the last few years. This paper presents an interesting perspective on this important discovery.	Edited
7	**Title:** FFLO Phase in Two Dimensional Organic Superconductor beta"-(BEDT-TTF)4[(H3O)Ga(C2O4)3] C6H5NO2 **First Author:** UJI, S. U., National Institute for Materials Science, uji.shinya@nims.go.jp **PI:** UJI, S. U., National Institute for Materials Science, uji.shinya@nims.go.jp **Category:** Superconductivity - Basic **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	Edited
25	**Title:** Two-Dimensional Superconductivity in a Bulk Single-Crystal **First Author:** Zhang, Q.R., National High Magnetic Field Lab, CMS, qiuzhang@magnet.fsu.edu **PI:** Balicas, L., National High Magnetic Field Lab, CMS, balicas@magnet.fsu.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 35 T **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 94/094511 **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Edited
36	**Title:** Upper Critical and Irreversibility Fields in Ni- and Co- Doped Pnictide Bulk Superconductors **First Author:** Nikolo, M, Saint Louis University, Physics, nikolom@slu.edu **PI:** Nikolo, M, Saint Louis University, Physics, nikolom@slu.edu **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 65 T **UCGP:** No **VSP:** No **Published in** J. Supercond. Nov. Magn. DOI: 10.1007/s10948-016-3727-4, 2016 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
37	**Title:** Orbitally Selective Spin Fluctuation Pairing in FeSe Crystals **First Author:** Hirschfeld, P.J., U. Florida , Physics, pjh@phys.ufl.edu **PI:** Hirschfeld, P.J., U. Florida , Physics, pjh@phys.ufl.edu **Category:** Superconductivity - Basic **Facility:** UF Physics **UCGP:** No **VSP:** No **Submitted to** Science **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None	Edited
40	**Title:** Incommensurate Charge-ordered States in t-J model for Cuprates **First Author:** Hirschfeld, P.J., U. Florida, Physics, pjh@phys.ufl.edu **PI:** Hirschfeld, P.J., U. Florida, Physics, pjh@phys.ufl.edu **Category:** Superconductivity - Basic **Facility:** UF Physics **UCGP:** No **VSP:** No **Accepted by** New J. Phys. **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
48	**Title:** Quantum Oscillations and the Fermi Surface of Superconducting FeS **First Author:** Man, H, Rice University, Physics and Astronomy, mhr001@rice.edu **PI:** Dai, P, Rice University, Physics and Astronomy, pd20@rice.edu	Edited

	Category: Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 34 T **UCGP:** No **VSP:** No **Submitted to** Nature Partner Journals **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
53	**Title:** Quantum Oscillations of a Novel Non-centrosymmetric Superconductor **First Author:** Kikugawa, N, National Institute for Materials Science, KIKUGAWA.Naoki@nims.go.jp **PI:** Kikugawa, N, National Institute for Materials Science, KIKUGAWA.Naoki@nims.go.jp **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 35 T **UCGP:** No **VSP:** No **Sign. Achievement:** Unanswered **Director's Recommendation: No** **Director's Comments:** None	Edited
78	**Title:** Anisotropic Upper Critical Fields up to 63 T in CaKFe4As4 Single Crystals **First Author:** Kong, T., Iowa State University/Ames Laboratory, Physics and Astronomy, taikong@iastate.edu **PI:** Bud'ko, S. L., Iowa State University/Ames Laboratory, Physics and Astronomy, budko@ameslab.gov **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 63 T **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 94/064501 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
97	**Title:** Magnetic-Field-Induced Normal State in a Stripe-Ordered Cuprate La1.7Eu0.2Sr0.1CuO4 in the Zero-Temperature Limit **First Author:** Shi, Z., National High Magnetic Field Laboratory, Florida State University, zshi@magnet.fsu.edu **PI:** Popovic, D., National High Magnetic Field Laboratory, Florida State University, dragana@magnet.fsu.edu **Category:** Superconductivity - Basic **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	Edited
100	**Title:** Quantum Oscillation in Non-Centrosymmetric Superconductor BiPd **First Author:** Khan, M. A., Louisiana State University, Department of Physics & Astronomy, mkhan19@lsu.edu **PI:** Young, D. P., Louisiana State University, Department of Physics &Astronomy, dyoung@phys.lsu.edu **Category:** Superconductivity - Basic **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	Edited
104	**Title:** Search for High-field Superconductivity at Embedded Interfaces in Natural Graphite Crystals **First Author:** Precker, C, University of Leipzig, Superconductivity and Magnetism, precker@studserv.uni-leipzig.de **PI:** Esquinazi, P, University of Leipzig, Superconductivity and Magnetism, esquin@physik.uni-leipzig.de **Category:** Superconductivity - Basic **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
148	**Title:** Study of the Mixed States of FeSe Superconductors **First Author:** Kim, JH, Kyungpook National University, Physics, selene4@knu.ac.kr **PI:** Jo, YJ, Kyungpook National University, Physics, joyj121@gmail.com **Category:** Superconductivity - Basic **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	Edited

150	**Title:** Seebeck Coefficient of La1.8−xSrxEu0.2CuO4 in High Magnetic Fields: Loss of Carrier Density Inside the Pseudogap Phase **First Author:** Collignong, C, Université de Sherbrooke, Physics, Clement.Collignon@USherbrooke.ca **PI:** Taillefer, L, Université de Sherbrooke, Physics, Louis.Taillefer@USherbrooke.ca **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 45 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
153	**Title:** Collective Dynamics at the Structural and Charge-Density-Wave Transition in Stripe-Ordered La1.48Nd0.4Sr0.12CuO4 **First Author:** Baity, P. G., National High Magnetic Field Laboratory, Florida State University, Physics, baity@magnet.fsu.edu **PI:** Popovic, D., National High Magnetic Field Laboratory, Florida State University, Physics, dragana@magnet.fsu.edu **Category:** Superconductivity - Basic **Facility:** CMT/E **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. Lett. **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	Edited
159	**Title:** Pressure-dependent Pauli-limiting Upper Critical Field of FeSe **First Author:** Kim, J.S., POSTECH, Physics, js.kim@postech.ac.kr **PI:** Kim, J.S., POSTECH, Physics, js.kim@postech.ac.kr **Category:** Superconductivity - Basic **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	Edited
164	**Title:** Evolution of the Fermi Surface of the Nematic Superconductors FeSe1-xSx **First Author:** Coldea, A.I., University of Oxford, amalia.coldea@physics.ox.ac.uk **PI:** Coldea, A.I., University of Oxford, amalia.coldea@physics.ox.ac.uk **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 45 T **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. Lett. **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
188	**Title:** Multiple Fermi Surfaces and Rotational Symmetry Breaking in Superconducting Nb-doped Bi2Se3 **First Author:** Lawson, B. J., University of Michigan, Department of Physics, bjlawson@umich.edu **PI:** Li, L, University of Michigan, Department of Physics, luli@umich.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 45 T **UCGP:** No **VSP:** No **Published in** Phys. Rev. B Rapid Commun. 94, 041114(R) **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
236	**Title:** Probing Mixed Spin Singlet-Triplet Pairing in 2D NbSe2 Under High Magnetic Fields **First Author:** Sohn, ES, Penn State University, Physics, exs423@psu.edu **PI:** Mak, km, Penn State University, Physics, kzm11@psu.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 45 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
286	**Title:** Unconventional Superconductivity in Layered Dichalcogenide NbSe2 **First Author:** Wilson, D.M., NHMFL, dougmwil@gmail.com **PI:** Reyes, A.P., NHMFL, reyes@magnet.fsu.edu **Category:** Superconductivity - Basic **Facility:** CMT/E **UCGP:** Yes **VSP:** No **Publication Status:** Manuscript in preparation	Edited

	Sign. Achievement: No **Director's Recommendation: No** **Director's Comments:** None	
288	**Title:** De Haas-van Alphen Oscillation Measurements in Underdoped YBCO **First Author:** Hsu, Y. -T, University of Cambridge, Physics, yth21@cam.ac.uk **PI:** Sebastian, S. E., University of Cambridge, Physics, ses59@cam.ac.uk **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 45 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
312	**Title:** Thermal Hall Effect in YBCO 6.55 and Chiral Anomaly in Half-Heusler GdPtBi **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 **Highest Measured Field:** 60 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None	Edited
332	**Title:** High Field Vortex Structural Transition in HgBa2CuO4+δ **First Author:** Lee, J A, Northwestern University, jeongseopalee@gmail.com **PI:** Lee, J A, Northwestern University, jeongseopalee@gmail.com **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 30 T **UCGP:** No **VSP:** No **Accepted by** Phys. Rev. B **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Edited
348	**Title:** Cyclotron Resonance Studies of the Underdoped Cuprate YBa2Cu3O6+y **First Author:** Singleton, J, NHMFL, jsingle@lanl.gov **PI:** Singleton, J, NHMFL, jsingle@lanl.gov **Category:** Superconductivity - Basic **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: No** **Director's Comments:** None	Edited
366	**Title:** Inhomogeneous Superconductivity **First Author:** Agosta, C. C., Clark University, Physics, cagosta@clarku.edu **PI:** Agosta, C. C., Clark University, Physics, cagosta@clarku.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **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	Edited
373	**Title:** Unusual Magnetic Phase Diagram of CrAs1-xPx (x < 5%) **First Author:** Weng, Z.F, Zhejiang University, Physics, zjuweng@zju.edu.cn **PI:** Yuan, H.Q., Zhejiang University, Physics, hqyuan@zju.edu.cn **Category:** Superconductivity - Basic **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	Edited
374	**Title:** Magnetoresistance near Critical Doping in Cuprate La2-xSrxCuO4 **First Author:** Lian, XL, National High Magnetic Field Laboratory, CMS, xjlianfly@gmail.com **PI:** Shekhter, AS, National High Magnetic Field Laboratory, CMS, arcadi.shehter@gmail.com **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL	Edited

	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	
401	**Title:** High Field Studies of Electron-doped Cuprate Thin Films **First Author:** Higgins, J. S., University of Maryland, Physics, joshua.s.higgins@gmail.com **PI:** Butch, N. P., NIST/University of Maryland, nicholas.butch@nist.gov **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 80 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
405	**Title:** Normal-State Specific Heat Measurements in BaFe2(As1-xPx)2 **First Author:** Moir, C.M., NHMFL/FSU, Condensed Matter Science, moir@magnet.fsu.edu **PI:** Boebinger, G.S., NHMFL/FSU, Director's Office, gsb@magnet.fsu.edu **Category:** Superconductivity - Basic **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	Edited
408	**Title:** Resistive Transition of BaFe2(As1-xPx)2 at High Magnetic Fields **First Author:** Moir, C.M., NHMFL/FSU, Condensed Matter Science, moir@magnet.fsu.edu **PI:** Boebinger, G.S., NHMFL/FSU, Director's Office, gsb@magnet.fsu.edu **Category:** Superconductivity - Basic **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: Yes** **Director's Comments:** None	Edited
422	**Title:** Electrical Transport on Superconductors I **First Author:** Chan, M. K., Los Alamos Natl Lab, Los Alamos Natl Lab, mkchan@lanl.gov **PI:** Chan, M. K., Los Alamos Natl Lab, Los Alamos Natl Lab, mkchan@lanl.gov **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 90 T **UCGP:** No **VSP:** No **Published in** Nature Comm. 7, 12244 (2016) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
423	**Title:** Electrical Transport on Superconductors III **First Author:** Chan, M. K., Los Alamos Natl Lab, Los Alamos Natl Lab, mchan053@gmail.com **PI:** Chan, M. K., Los Alamos Natl Lab, Los Alamos Natl Lab, mchan053@gmail.com **Category:** Superconductivity - Basic **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	Edited
424	**Title:** Magnetometry and Electrical Transport Measurements of High Temperature Superconductors **First Author:** Chan, M. K., Los Alamos Natl Lab, mchan053@gmail.com **PI:** Chan, M. K., Los Alamos Natl Lab, mchan053@gmail.com **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** .1 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
497	**Title:** High Field Response of the Pseudogap Phase in the 10-3-8 Iron Arsenide **First Author:** Brückner, F., Technische Universität Dresden, Institute for Solid State Physics, felix.brueckner@mailbox.tu-dresden.de	Edited

PI: Klauss, H.-H., Technische Universität Dresden, Institute for Solid State Physics, h.klauss@physik.tu-dresden.de
Category: Superconductivity - Basic
Facility: DC Field Facility
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

Total Reports: 34