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| **List Of 2017 Reports**

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| **ID#** | **Title, First Author, and Category** | **Status** |
| [**5**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=5) |  **Title:** Quantum Oscillations in Transition Metal-Pnictide Compounds **First Author:** Campbell, D.J., University of Maryland, Center for Nanophysics and Advanced Materials, Dept. of Physics, djcampbe@umd.edu **PI:** Paglione, J., University of Maryland, Center for Nanophysics and Advanced Materials, Dept. of Physics, paglione@umd.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 31.5 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**6**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=6) |  **Title:** Field Induced Superconductor to Insulator Transition in SrTiO3/LaAlO3 (111) **First Author:** Dagan, Y, Tel Aviv University, Physics, yodagan@post.tau.ac.il **PI:** Dagan, Y, Tel Aviv University, Physics, yodagan@post.tau.ac.il **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 18 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** **Yes** **Director's Recommendation: Yes** **Director's Comments:** None | Editing |
| [**30**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=30) |  **Title:** Fermi surface and Berry phase in CaFeAsF, a variant of the 1111 parent compounds **First Author:** Terashima, T., National Institute for Materials Science, TERASHIMA.Taichi@nims.go.jp **PI:** Terashima, T., National Institute for Materials Science, TERASHIMA.Taichi@nims.go.jp **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 45 T **UCGP:** No    **VSP:** No   **Submitted to** Phys. Rev. X  **Sign. Achievement:** **Yes** **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**34**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=34) |  **Title:** Sign changing superconducting gaps in Iron Chalcogenide Superconductors **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   **Published in** Science 357, 75 **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**35**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=35) |  **Title:** Universality of STM Images in Cuprate Superconductors **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   **Published in** Phys. Rev. B 96, 174523 **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**91**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=91) |  **Title:** Nematic Phase Transition in CeRhIn5 **First Author:** Hollister, P.M., Cornell University, Physics, pmh74@cornell.edu **PI:** Ramshaw, B.J., Cornell University, Physics, bradramshaw@cornell.edu **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 | Approved |
| [**92**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=92) |  **Title:** Pressure effects show that the pseudogap phase of cuprates is confined by Fermi surface topology **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 **Highest Measured Field:** 45 T **UCGP:** No    **VSP:** No   **Published in** Nature Comm. 8, 2044 (2017) **Sign. Achievement:** **Yes** **Director's Recommendation: Yes, definitely** **Director's Comments:** None | Approved |
| [**141**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=141) |  **Title:** Fermi Surface measurements of underdoped YBCO under pressure **First Author:** Grockowiak, A, NHMFL, grockowiak@magnet.fsu.edu **PI:** Grockowiak, A, NHMFL, grockowiak@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 | Approved |
| [**168**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=168) |  **Title:** Fermi Surface of Nd-LSCO via Angle-Dependent Magnetoresistance **First Author:** Legros, A, University de Sherbrooke, Anaelle.Legros@usherbrooke.ca **PI:** Ramshaw, BJ, Cornell University, Physics, bradramshaw@cornell.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: No** **Director's Comments:** None | Approved |
| [**199**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=199) |  **Title:** High Field Studies of Electron-doped Cuprate Thin Films **First Author:** Butch, NPB, NIST and University of Maryland, nicholas.butch@nist.gov **PI:** Butch, NPB, NIST and 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   **Submitted to** New J. Phys.  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**230**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=230) |  **Title:** Field-Tuned Transitions in Striped Cuprates in the Zero-Temperature Limit **First Author:** Baity, P.G., NHMFL/FSU, Physics, baity@magnet.fsu.edu **PI:** Popovic, D., NHMFL/FSU, Physics, dragana@magnet.fsu.edu **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 | Approved |
| [**246**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=246) |  **Title:** Spin susceptibility of charge ordered YBa2Cu3Oy across the upper critical field **First Author:** Zhou, R., LNCMI, rui.zhou@lncmi.cnrs.fr **PI:** Julien, M.H., L, marc-henri.julien@lncmi.cnrs.fr **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 45 T **UCGP:** No    **VSP:** No   **Published in** P. Natl. Acad. Sci. U.S.A. 114, 13148–13153 (2017) **Sign. Achievement:** **Yes** **Director's Recommendation: Yes, definitely** **Director's Comments:** None | Approved |
| [**250**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=250) |  **Title:** Pressure dependence of the Fermi surface of the nematic superconductor, FeSe0.89S0.11 **First Author:** Reiss, P, University of Oxford, Physics, pascal.reiss@physics.ox.ac.uk **PI:** Coldea, AI, University of Oxford, Physics, amalia.coldea@physics.ox.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:** **Yes** **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**254**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=254) |  **Title:** Understanding Pairing in NbxN: A new Epitaxial Superconductor **First Author:** Yan, RY, Cornell University, Electrical and Computer Engineering, ry253@cornell.edu **PI:** Jena, DJ, Electrical and Computer Engineering, Electrical and Computer Engineering, debdeep.jena@cornell.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 | Approved |
| [**256**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=256) |  **Title:** Andreev Processes at an Interface between Graphene and a Superconductor **First Author:** Benyamini, AB, Columbia University, Mechanical Engineering / Physics, avishaiben@gmail.com **PI:** Pasupathy, AP, Columbia University, Physics, apn2108@columbia.edu **Category:** Superconductivity - Basic **Facility:** DC Field Facility **Highest Measured Field:** 32 T **UCGP:** No    **VSP:** No   **Submitted to** Nano Letters  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**305**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=305) |  **Title:** Transport measurements in a high-Tc cuprate **First Author:** Davies, A. J., University of Cambridge, Physics, ajd223@cam.ac.uk **PI:** Harrison, N, National High Magnetic Field Laboratory, Los Alamos, nharrison@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 | Approved |
| [**382**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=382) |  **Title:** Nematic superconductivity under pressure in CeRhIn5 **First Author:** Helm, T, Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, toni.helm@cpfs.mpg.de **PI:** Moll, PJW, Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, Philip.Moll@cpfs.mpg.de **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:** **Yes** **Director's Recommendation: Yes, definitely** **Director's Comments:** None | Approved |
| [**384**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=384) |  **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:** 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 | Approved |
| [**386**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=386) |  **Title:** Quantum Oscillations in YBCO **First Author:** Hartstein, M., University of Cambridge, Physics, mh773@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:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**387**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=387) |  **Title:** High Field Studies of Electron-doped Cuprate Thin Films **First Author:** Butch, NPB, University of Maryland, Center for Nanophysics and Advanced Materials, nbutch@umd.edu **PI:** Butch, NPB, University of Maryland, Center for Nanophysics and Advanced Materials, nbutch@umd.edu **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 60 T **UCGP:** No    **VSP:** No   **Submitted to** New J. Phys.  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**440**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=440) |  **Title:** Scaling in the Interlayer Resistivity of BaFe2(As1-xPx)2 **First Author:** Hayes, I.M., University of California, Berkeley, Physics, imhayes@berkeley.edu **PI:** Analysis, J.G., University of California, Berkeley, Physics, analytis@berkeley.edu **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 | Approved |
| [**446**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=446) |  **Title:** Quantum fluctuations in cuprates near critical doping are co-planar with CuO plane **First Author:** Shehter, A, nhmfl, arkady.shehter@gmail.com **PI:** Shehter, A, nhmfl, arkady.shehter@gmail.com **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:** **Yes** **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**449**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=449) |  **Title:** NMR studies of CDW and superconducting gap structure in layered 2H-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 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**459**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=459) |  **Title:** Hall resistivity near critical doping in cuprates reveals energy scale competition **First Author:** Shehter, A., NHMFL, arkady.shehter@gmail.com **PI:** Shehter, A., NHMFL, arkady.shehter@gmail.com **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:** **Yes** **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**460**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=460) |  **Title:** Direct evidence of non-linear-in-field Hall resistivity near critical doping in cuprates **First Author:** Shehter, A, NHMFL, arkady.shehter@gmail.com **PI:** Shehter, A, NHMFL, arkady.shehter@gmail.com **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 93 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**461**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=461) |  **Title:** Charge order in cuprate superconductors **First Author:** Chan, M.K., Los Alamos Natl Lab, Los Alamos Natl Lab, mchan053@gmail.com **PI:** Mun Chan, Mun C, 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   **Submitted to** Nature  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Editing |
| [**462**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=462) |  **Title:** Fermiology in cuprate superconductors **First Author:** Chan, Mun, Los Alamos Natl Lab, Los Alamos Natl Lab, mchan053@gmail.com **PI:** Mun Chan, Mun C, Los Alamos Natl Lab, Los Alamos Natl Lab, mchan053@gmail.com **Category:** Superconductivity - Basic **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 92 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Editing |
| **Total Reports: 27**  |

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