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| **List Of 2017 Reports**

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| **ID#** | **Title, First Author, and Category** | **Status** |
| [**130**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=130) |  **Title:** Quantum oscillations in the high pressure metallised Mott insulator NiS2 **First Author:** Baglo, J. C., University of Cambridge, Cavendish Laboratory, jcb206@cam.ac.uk **PI:** Grosche, F. M., University of Cambridge, Cavendish Laboratory, fmg12@cam.ac.uk **Category:** Condensed Matter - Other **Facility:** DC Field Facility **Highest Measured Field:** 35 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**133**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=133) |  **Title:** Role of screening and charge transfer for a Mott transition in a Hydrogen lattice **First Author:** Quito, VLQ, National High Magnetic Field Laboratory, quito@magnet.fsu.edu **PI:** Vladimir Dobrosavljevic, VD, National High Magnetic Field Laboratory, vlad@magnet.fsu.edu **Category:** Condensed Matter - Other **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 |
| [**161**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=161) |  **Title:** Quantum Size Effect on Field-Induced Phase Transition in Thin-Film Graphite: Experimental Confirmation of Density Wave Formation **First Author:** Taen, T., The University of Tokyo, The Institute for Solid State Physics, taen@issp.u-tokyo.ac.jp **PI:** Osada, T., The University of Tokyo, The Institute for Solid State Physics, osada@issp.u-tokyo.ac.jp **Category:** Condensed Matter - Other **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 |
| [**171**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=171) |  **Title:** Magnetization Studies of Quantum Spin Layers and Ladders **First Author:** Landee, C. P., Clark University, Physics, clandee@clarku.edu **PI:** Landee, C. P., Clark University, Physics, clandee@clarku.edu **Category:** Condensed Matter - Other **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 |
| [**174**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=174) |  **Title:** Transport of dilute MgZnO/ZnO heterostructures **First Author:** Falson, J., Max Planck Institute, Stuttgart, sullivan@phys.ufl.edu **PI:** Smet, J., Max Planck Institute, Stuttgart, sullivan@phys.ufl.edu **Category:** Condensed Matter - Other **Facility:** High B/T Facility at UF **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 | Approved |
| [**210**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=210) |  **Title:** High Field Magneto-Optical Studies of Liquid Crystals and Complex Fluids **First Author:** Gleeson, Jim, Kent State University, Physics, jgleeson@kent.edu **PI:** Gleeson, Jim, Kent State University, Physics, jgleeson@kent.edu **Category:** Condensed Matter - Other **Facility:** DC Field Facility **Highest Measured Field:** 25 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**229**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=229) |  **Title:** Anisotropy Study of Magnetothermal Conductivity of Co4Nb2O9 **First Author:** Benjamin, S. B., NHMFL, FSU, sbenjamin21@gmail.com **PI:** Choi, E. S., NHMFL, FSU, echoi@magnet.fsu.edu **Category:** Condensed Matter - Other **Facility:** DC Field Facility **Highest Measured Field:** 18 T **UCGP:** No    **VSP:** **Yes**   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**231**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=231) |  **Title:** Shubnikov de Haas (SdH) and de Haas van Alphen (dHvA) study of the Fermi surfaces of lithium isotopes at ambient and under pressure. **First Author:** Deemyad, SD, University of Utah, Shanti Deemyad, shanti.deemyad@gmail.com **PI:** Deemyad, SD, University of Utah, Shanti Deemyad, shanti.deemyad@gmail.com **Category:** Condensed Matter - Other **Facility:** DC Field Facility **Highest Measured Field:** 18 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**239**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=239) |  **Title:** Search for the Rapid Oscillations and Field-Induced Spin-Density-Waves in (TMTTF)2Br **First Author:** Kang, W, Ewha Womans University, Physics, wkang@ewha.ac.kr **PI:** Kang, W, Ewha Womans University, Physics, wkang@ewha.ac.kr **Category:** Condensed Matter - Other **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 |
| [**327**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=327) |  **Title:** Raman Spectroscopy on 2D Organic Spin Ladder (DTTTF)2Cu(mnt)2 **First Author:** Thirunavukkuarasu, K., FAMU, Physics, komalavalli@magnet.fsu.edu **PI:** Smirnov, D., NHMFL, smirnov@magnet.fsu.edu **Category:** Condensed Matter - Other **Facility:** EMR Facility **Highest Measured Field:** 17 T **UCGP:** **Yes**    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**417**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=417) |  **Title:** Completing the Fermiology of high-zT material (Pb1-xNax)Te **First Author:** Walmsley, P., Stanford University, GLAM, pwalms@stanford.edu **PI:** Fisher, I.R., Stanford University, GLAM, irfisher@stanford.edu **Category:** Condensed Matter - Other **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 |
| [**421**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=421) |  **Title:** High-Field Behavior of the Internal Interfaces of Graphite **First Author:** Barzola Quiquia, J., University of Leipzig, Felix Bloch Institute - Division of Superconductivity and Magnetism, j.barzola@physik.uni-leipzig.de **PI:** Esquinazi, P., University of Leipzig, Felix Bloch Institute - Division of Superconductivity and Magnetism, esquin@physik.uni-leipzig.de **Category:** Condensed Matter - Other **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 |
| [**430**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=430) |  **Title:** Diluted Gd spins detected by sensitive SQUID-based resonator **First Author:** Chiorescu, I., NHMFL and Physics Dept FSU, ic@magnet.fsu.edu **PI:** Chiorescu, I., NHMFL and Physics Dept FSU, ic@magnet.fsu.edu **Category:** Condensed Matter - Other **Facility:** CMT/E **UCGP:** No    **VSP:** No   **Published in** Appl. Phys. Lett. 111, 202601 (2017) **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**431**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=431) |  **Title:** Coherent exchange between two quasi-harmonic oscillators **First Author:** Chiorescu, I., NHMFL and Physics Dept FSU, ic@magnet.fsu.edu **PI:** Chiorescu, I., NHMFL and Physics Dept FSU, ic@magnet.fsu.edu **Category:** Condensed Matter - Other **Facility:** CMT/E **UCGP:** No    **VSP:** No   **Published in** Phys. Rev. B 96, 024428 (2017) **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**23**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=23) |  **Title:** Aharonov-Bohm oscillations and weak antilocalizations in Cr9.35Te16 single crystals **First Author:** Cao, G.-X., LSU, Department of Physics & Astronomy, gxcao77@gmail.com **PI:** Jin, R., LSU, Department of Physics & Astronomy, rjin@lsu.edu **Category:** Condensed Matter - Other **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 | Approved |
| [**50**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=50) |  **Title:** Phase diagram of Ba2NaOsO6, a Mott insulator with strong spin orbit interactions **First Author:** Lui, W., Brown University, Department of Physics, wencong\_liu@brown.edu **PI:** Mitrovic, V.F., Brown University, Department of Physics, vemi@brown.edu **Category:** Condensed Matter - Other **Facility:** CMT/E **UCGP:** No    **VSP:** No   **Published in** Physica B  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**58**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=58) |  **Title:** Dynamics of Fermi Gas in 1D Nanotubes **First Author:** Huan, C., University of Florida, Physics, sullivan@phys.ufl.edu **PI:** Sullivan, N. S., University of Florida, Ohysics, sullivan@phys.ufl.edu **Category:** Condensed Matter - Other **Facility:** High B/T Facility at UF **Highest Measured Field:** 8 T **UCGP:** No    **VSP:** No   **Accepted by** J. Physics - Conference Series  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**68**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=68) |  **Title:** Diffusion of Hydrogen in 1D Mesoscopic MCM-41 **First Author:** Huan, C., University of Florida, Physics, sullivan@phys.ufl.edu **PI:** Sullivan, N., University of Florida, Physics, sullivan@phys.ufl.edu **Category:** Condensed Matter - Other **Facility:** High B/T Facility at UF **Highest Measured Field:** 4 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**74**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=74) |  **Title:** Slave Boson Theory of Orbital Differentiation with Crystal Field Effects: Application to UO2 **First Author:** Lanata, NL, National High Magnetic Field Laboratory, lanata@magnet.fsu.edu **PI:** Lanata, NL, National High Magnetic Field Laboratory, lanata@magnet.fsu.edu **Category:** Condensed Matter - Other **Facility:** CMT/E **UCGP:** No    **VSP:** No   **Published in** Phys. Rev. Lett. 118, 126401 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**75**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=75) |  **Title:** Critical role of electronic correlations in determining crystal structure of transition metal compounds **First Author:** Lee, THL, Rutgers University, henhans74716@gmail.com **PI:** Lanata, NL, National High Magnetic Field Laboratory, lanata@magnet.fsu.edu **Category:** Condensed Matter - Other **Facility:** CMT/E **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**124**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=124) |  **Title:** Sub-10 nm 1D/3D Disordered Electron Systems **First Author:** Lu, Y., University of Pennsylvania, Materials Science and Engineering, yanglu1@seas.upenn.edu **PI:** Chen, I. W., University of Pennsylvania, Materials Science and Engineering, iweichen@seas.upenn.edu **Category:** Condensed Matter - Other **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 | Approved |
| **Total Reports: 21**  |

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