|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **List Of 2017 Reports**   |  |  |  | | --- | --- | --- | | **ID#** | **Title, First Author, and Category** | **Status** | | [**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 | | [**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 | | **Total Reports: 21** | | | |