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| **List Of 2017 Reports**

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| **ID#** | **Title, First Author, and Category** | **Status** |
| [**73**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=73) |  **Title:** Emergent Bloch Excitations in Bloch Matter **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 Technique Development **Facility:** CMT/E **UCGP:** No    **VSP:** No   **Published in** Phys. Rev. B  **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** This new theoretical method will open significant new opportunities for efficient realistic modeling of materials with strong electronic correlations.  | Approved |
| [**373**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=373) |  **Title:** Thermal expansion measurements of CeRhIn5 under high pressures **First Author:** Rosa, PFS, Los Alamos National Laboratory, pfsrosa@lanl.gov **PI:** Thompson, J, Los Alamos National Laboratory, jdt@lanl.gov **Category:** Condensed Matter Technique Development **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 12 T **UCGP:** No    **VSP:** No   **Published in** Sensors Sensors 17, 2543 (2017). **Sign. Achievement:** **Yes** **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**374**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=374) |  **Title:** Development of Thermometry for the Fast Pulse Magnet **First Author:** Reagor, D.W., LANL, reagor@lanl.gov **PI:** Lashley, J.C., LANL, j.lash@lanl.gov **Category:** Condensed Matter Technique Development **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 30 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**378**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=378) |  **Title:** Toward time-domain terahertz spectroscopy in pulsed magnetic fields **First Author:** Post, K, NHMFL-LANL, crooker@lanl.gov **PI:** Crooker, SA, NHMFL-LANL, crooker@lanl.gov **Category:** Condensed Matter Technique Development **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 7 T **UCGP:** **Yes**    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**401**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=401) |  **Title:** Development of the new technique for the magnetostriction measurement in pulsed magnetic fields **First Author:** Ding, XD, NHMFL\_PFF, xding@lanl.gov **PI:** Ding, XD, NHMFL\_PFF, xding@lanl.gov **Category:** Condensed Matter Technique Development **Facility:** Pulsed Field Facility at LANL **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 | Approved |
| [**436**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=436) |  **Title:** Two-Axis Rotation using a Piezo-Driven Platform **First Author:** Graf, D., NHMFL, graf@magnet.fsu.edu **PI:** Graf, D., NHMFL, graf@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 18 T **UCGP:** **Yes**    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**259**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=259) |  **Title:** Experimental Development for Studying Out-of-Equilibrium Magneto-Transport of Surface State in 3D Topological Insulators **First Author:** Moon, S., NHMFL, FSU Physics, suyurimoon@gmail.com **PI:** Smirnov, D., NHMFL, smirnov@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 17 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**285**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=285) |  **Title:** FTIR magneto-spectroscopy in the NHMFL DC facility: New developments, tests and optimization of experimental protocols  **First Author:** Ozerov, MO, NHMFL, ozerov@magnet.fsu.edu **PI:** Ozerov, MO, NHMFL, ozerov@magnet.fsu.edu **Category:** Condensed Matter Technique Development **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 |
| [**304**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=304) |  **Title:** Optical Monitoring Setup for Room-Temperature-Bore Magnets **First Author:** Suslov, A.V., Florida State University, NHMFL, suslov@magnet.fsu.edu **PI:** Suslov, A.V., Florida State University, NHMFL, suslov@magnet.fsu.edu **Category:** Condensed Matter Technique Development **Facility:** DC Field Facility **Highest Measured Field:** 11.5 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| **Total Reports: 9**  |

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