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| **List Of 2017 Reports**

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| **ID#** | **Title, First Author, and Category** | **Status** |
| [**238**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=238) |  **Title:** Augmented Tune/Match Circuits for High Performance Dual Nuclear Transmission Line Resonators **First Author:** Erickson, M. G., UF, Division of Infectious Diseases and Global Medicine, gyromagnetic1@yahoo.com **PI:** Erickson, M. G., UF, Division of Infectious Diseases and Global Medicine, gyromagnetic1@yahoo.com **Category:** Magnet Resonance Technique and Development **Facility:** AMRIS Facility at UF **Highest Measured Field:** 4.7 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**148**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=148) |  **Title:** Fast Imaging of Hyperpolarized Water **First Author:** Zhao, E.W., University , Chemistry, zhao0110@chem.ufl.edu **PI:** Bowers, C.R., University of Florida, Chemistry, bowers@chem.ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** AMRIS Facility at UF **Highest Measured Field:** 17.6 T **UCGP:** No    **VSP:** No   **Submitted to** CHEM  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**337**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=337) |  **Title:** Gradient Eddy Current Pre-emphasis with Uniform Excitation of Eigenmodes **First Author:** Kulam, M., University of Florida, Mechanical and Aerospace Engineering, mkulam@ufl.edu **PI:** Mareci, T. H., University of Florida, Biochemistry and Molecular Biology, thmareci@ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** AMRIS Facility at UF **Highest Measured Field:** 4.7 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**224**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=224) |  **Title:** Implementation of PROJECT T2 Filtering for use with HRMAS **First Author:** Collins, JHP, University of Florida, Biochemistry & Molecular Biology, jhpcollins@ufl.edu **PI:** Long, JR, University of Florida, Biochemistry & Molecular Biology, jrlong@mbi.ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** AMRIS Facility at UF **Highest Measured Field:** 14.1 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**413**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=413) |  **Title:** Study of Effect of oxygen in sample matrix on 13C Hyperpolarization at 5 T and <1.2 K **First Author:** Lama, B, University of Florida, bimala.lama@colorado.edu **PI:** Joanna Long, J, University of Florida, jrlong@ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** AMRIS Facility at UF **Highest Measured Field:** 5 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**234**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=234) |  **Title:** Overhauser Dynamic Nuclear Polarization in Liquids at 14.1 T **First Author:** Dubroca, T, NHMFL, EMR, dubroca@magnet.fsu.edu **PI:** Hill, S, NHMFL, shill@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 14.1 T **UCGP:** No    **VSP:** No   **Submitted to** J. Magn. Reson.  **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**423**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=423) |  **Title:** Overhauser Effect in Solutions: Electron Spin Characterization **First Author:** Akindeferin, A, Florida State University, Physics Department and National High Magnetic Field Laboratory, aaa12g@my.fsu.edu **PI:** Frydman, L, Weizmann Institute, Rehovot, Israel, Department of Chemistry, lucio.frydman@weizmann.ac.il **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 12.5 T **UCGP:** **Yes**    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**435**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=435) |  **Title:** Pulsed EPR at 395 GHz of Impurities in MgO **First Author:** van Tol, J, Florida State University, National High Magnetic Field Laboratory, vantol@magnet.fsu.edu **PI:** van Tol, J, Florida State University, National High Magnetic Field Laboratory, vantol@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 14.5 T **UCGP:** **Yes**    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**412**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=412) |  **Title:** Study of Effect of Electron Relaxation Time (T1e) on 1H Hyperpolarization for Dissolution Dynamic Nuclear Polarization **First Author:** Lama, B, University of Florida, bimala.lama@colorado.edu **PI:** Joanna Long, J, University of Florida, jrlong@ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 5 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**361**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=361) |  **Title:** Transition Metal Doping Reveals Link between Electron T1 Reduction and 13C Dynamic Nuclear Polarization Efficiency **First Author:** Niedbalski, P, University of Texas at Dallas, Physics, pniedbalski3@gmail.com **PI:** Lumata, L, University of Texas at Dallas, Physics, lloyd.lumata@utdallas.edu **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 3.35 T **UCGP:** No    **VSP:** No   **Published in** J. Phys. Chem. A 121, 9221-9228 (2017) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**345**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=345) |  **Title:** Brain White Matter Fiber Configuration Analysis with Spherical Harmonic (CASH) Expansion of Diffusion Displacement Probability **First Author:** Mareci, T.H., Biochemistry and Molecular Biology, University of Florida, thmareci@ufl.edu **PI:** Mareci, T.H., Biochemistry and Molecular Biology, University of Florida, thmareci@ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**348**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=348) |  **Title:** Time-dependent changes in magnetic resonance electrical impedance tomography phase-sensitive images resulting from magnetic field instability **First Author:** Kasinadhuni, A.K., University of Florida, Biomedical Engineering, adityakumar.bme@gmail.com **PI:** Mareci, T.H., University of Florida, Biochemistry and Molecular Biology, thmareci@ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**81**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=81) |  **Title:** Li Distribution and Deficiency in Li10GeP2S12 upon Electrochemical Cycling Probed by 7Li Magnetic Resonance Imaging **First Author:** Chien, CPH, FSU, Chemistry, onizgaex@gmail.com **PI:** Hu, HYY, FSU, Chemistry and NHMFL, hu@chem.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 21 T **UCGP:** No    **VSP:** No   **Submitted to** Nature Comm.  **Sign. Achievement:** No **Director's Recommendation: Yes, definitely** **Director's Comments:** None | Approved |
| [**125**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=125) |  **Title:** NMR Structural Analysis of Sarcoplasmic Reticulum Proteins in Membranes **First Author:** Veglia, G, University of Minnesota, Biochemistry, Molecular Biology, and Biophysics/Chemistry, vegli001@umn.edu **PI:** Veglia, G, University of Minnesota, Biochemistry, Molecular Biology, and Biophysics/Chemistry, vegli001@umn.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**65**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=65) |  **Title:** Quantification of sodium triple quantum MR signal at 21.1 T **First Author:** Schepkin, V.D., NHMFL/FSU, schepkin@magnet.fsu.edu **PI:** Schad, L., Heidelberg University, Germany, lothar.schad@medma.uni-heidelberg.de **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 21 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**292**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=292) |  **Title:** SCH Field Regulation Using Field-Frequency Lock **First Author:** Hung, I, NHMFL, CIMAR/NMR, hung@magnet.fsu.edu **PI:** Gan, Z, NHMFL, CIMAR/NMR, gan@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 35.2 T **UCGP:** No    **VSP:** No   **Published in** J. Magn. Reson. 284, 125-136 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**261**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=261) |  **Title:** Shimming a 36-T Hybrid Magnet for High Resolution NMR **First Author:** Litvak, I.L., NHMFL-FSU, litvak@magnet.fsu.edu **PI:** Brey, W.W., NHMFL-FSU, wbrey@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 35.2 T **UCGP:** No    **VSP:** No   **Published in** J. Magn. Reson. vol. 284 pages 125-136 **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**222**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=222) |  **Title:** Spin-Echo based Diagonal Peak Suppression in Solid-State MAS NMR Homonuclear Chemical Shift Correlation Spectra **First Author:** Wang, K, NHMFL; Xiamen U., Electronic Science, kaiyuw@stu.xmu.edu.cn **PI:** Fu, R, NHMFL, rfu@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 14 T **UCGP:** No    **VSP:** No   **Submitted to** J. Magn. Reson.  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**324**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=324) |  **Title:** The Catalytic Role of the Active-Site Lysine Side Chain in Tryptophan Synthase **First Author:** Mueller, L.J., UC Riverside, Chemistry, leonard.mueller@ucr.edu **PI:** Mueller, L.J., UC Riverside, Chemistry, leonard.mueller@ucr.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 21 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**61**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=61) |  **Title:** Transient NOE Enhancement in Solid-State MAS NMR of Mobile Systems **First Author:** Cui, J.Y., University of Science and Technology of China, Department of Modern Physics, cjy1991@mail.ustc.edu.cn **PI:** Fu, R., NHMFL, rfu@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 14 T **UCGP:** No    **VSP:** No   **Published in** J. Magn. Reson. vol.284, page 73-79, 2017 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**262**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=262) |  **Title:** Utilizing HTS Resonators as NMR Transmit Coils **First Author:** Amouzandeh, G., NHMFL-FSU, ga13d@my.fsu.edu **PI:** Brey, W.W., NHMFL-FSU, wbrey@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 0 T **UCGP:** **Yes**    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| **Total Reports: 21**  |

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