

## USER COLLABORATION GRANTS PROGRAM

Solicit Year	Applications Received	Approved Proposals	Awardee Name	Affiliation	Awardee Department	Title
2015-2017	26	5	Yan-Yan Hu	FSU	CIMAR/NMR	Innovative in situ and operando characterization capabilities for energy materials research
			Johan vanTol	FSU	CMS/EMR	High Field Integrated EPR and NMR for DNP Applications
			David Graf	FSU	CMS/DC	High Pressure Measurements of Magnetization by Field Modulation
			Seungyong Hahn	FSU	ASC	Partial No-Insulation and Metallic Cladding Insulation Techniques for Compact, Self-Protecting, and Low-Cost REBCO Magnets
			Scott Crooker	LANL	Pulsed	Free-space ultrafast optics and time-domain terahertz spectroscopy in pulsed magnetic fields
2014-2016	24	6	Samuel Grant	FSU	NMR	In vivo ultrahigh field Magnetic Resonance Spectroscopy and Spectroscopic Imaging
			Charles Mielke	LANL	PFF	Advanced measurement system for 150 tesla science
			Zhehong Gan	FSU	NMF	<sup>1</sup> H detected solid state NMR with ultrafast magic-angle spinning and high fields.
			Ryan Baumbach	FSU	DC	Materials driven investigation of emergent phenomena in uranium-based compounds
			Theo Siegrist	FSU	Material	Electrocrystallization Facility to Support Science in High Magnetic Fields
			Arneil Reyes	FSU	DC	Nuclear Magnetic Resonance Probe for in situ variation of stress and strain
2012-201	14	4	Stephen Hill	FSU	EMR	Integration of a Microwave Resonator and Diamont...
			Dmitry Smirnov	FSU	DC	High-field Raman Spectroscopy of Advance Ele...
			William Brey	FSU	NMR	High Temperature Superconductive NMR Probe..
			James Hamlin	UF	UF Physics	In situ Pressure Variation at Low Temperatures
2011-2013	19	7	Naresh Dalal	FSU	EMR	A Versatile Variable Temperature Probe for the Ultra Wide Bore 21.2 T (900UWB MHz)
			Eun Sang Choi	FSU	DC	Development of Low Temperature DC Magnetometry
			Thomas Mareci	UF	AMRIS	Unique MR Probe for in vivo Studies of Rats and Mice in a 17.6 T, 89 mm Vertical Magnet
			Clifford Bowers	UF	UF Physics	Optical NMR Probes for High Field Optically Pumped NMR Spectroscopy in Semiconductor
			Jason Cooley	LANL	PFF	Magnetic Field dependence of the latent heat, melting and freezing points during
			Marcelo Jaime	LANL	PFF	Optical Fiber Bragg Grating-based Manetostriction in Pulsed Magnets
Viven Zapf	LANL	PFF	Phase Transitions in Quenched Magnetic Fields: Emergence of Topological Defects			
2010-2012	19	6	Jan Jaroszynski	FSU	ASC	Superconducting Films
			Likai Song	FSU	EMR	Multi-frequency EPR Study of HIV gp41 at the Membrane Interface
			Peter Gor'kov	FSU	NMR	Efficient Low-G Solid State NMR Probes for Energy and Material Chemistry Application
			Samuel Grant	FSU	NMR	MR Imaging in the Far Field: Holographic Interferometry & Spatial Encoding at High Field
			Zhiqiang (Jason) Li	FSU	DC	Magneto-optical Spectroscopy of Novel Materials
			Yasu Takano	UF	UF Physics	Capacitive Force Magnetometers for Precise Low-Temperature Magnetization Measurements in High Magnetic Fields
2009-2011	23	5	Stephen McGill	FSU	DC	Raman Spectroscopy of Low-Dimensional Spin System
			Riqiang Fu	FSU	NMR	In Situ Electrochemical-NMR Spectroscopy of Lithium Rechargeable Batteries
			Stephen Blackband	UF	UF Physics	MR Microscopy at the Cellular Level Using Microsurface RF Coils
			Ke Han	FSU	MST	Twin Boundary & Interface Strengthened Conductors
			Eric Palm	FSU	DC	Thermal Expansion & magnetostriction at the NHMFL
2008-2010	19	5	Luis Balicas	FSU	DC	Synthesis and physical characterization of new superconducting transition metal oxypnictides and related compounds
			Denis Markiewicz	FSU	MST	32 T Superconducting Magnet Development
			Anant Paravastu	FSU	NMR	NMR Investigations of Protein Aggregation Pathways
			Alex Angerhofer	UF	UF Physics	High-Resolution Magnetic Field Measurement and Tracking for High-Field EPR
			Jonathan Bets	LANL	PFF	Ultrasonic measurements of detwinned LSCO in DC and pulsed magnetic fields
2007-2009	23	5	Dmitry Smirnov	FSU	DC	Carbon Nanotube Based Devices in High Magnetic Fields
			Samuel Grant	FSU	NMR	An Integrated in vivo System for 21.1 T: Novel RF Technology for Rodent MRI
			William Brey	FSU	NMR	Instrumentation and Techniques to Use <sup>14</sup> N NMR to Probe the Structure of Biomolecules
			Peter Fajer	FSU	EMR	From EPR to Molecular Structure: Simulations of the Nitroxide Label Baviour
			Neil Sullivan	UF	HBT	NMR Studies of Superfluidity in Solid <sup>4</sup> He

2006-2008	33	9	Chris Wiebe	FSU	CMS	Exploring orbital physics in geometrically frustrated oxides at the NHMFL
			Stephen McGill	FSU	DC	Time-resolved studies of coupled dynamics in manganites
			Jurek Krzystek	FSU	EMR	Probing Zero-Field Splittings of High-Electron Spin Systems with Frequency-Domain Magnetic Resonance Spectroscopy
			Alex Gurevich	FSU	ASC	Establishing the limits of high-field superconductivity in two-gap magnesium diboride films and heterostructures
			Andrew Ozarowski	FSU	EMR	High-Field EPR and Mössbauer Studies On the Spin Crossover And Light-Induced Excited Spin State Trapping In Iron(II) Complex
			Denis Markiewicz	FSU	MST	General Invariant Strain Analysis: experimental verification and analysis development
			John Eyler	UF	UF Physics	Infrared Spectra of Gaseous Ions: Extending Spectroscopic Capabilities of the FT-ICR-FEL Facility
Viven Zapf	LANL	PFF	Construction of a magnetic force magnetometer to study boson localization in a quantum magnet			
Boris Mairov	LANL	PFF	Vortex matter in YBa2Cu3O7 films with strong competing types of disorder			
2005-2007	25	6	Irinel Chiorescu	FSU	CMS THEORY	Time-resolved, high field studies of spin relaxation processes in molecular magnets and organic conductors
			Eric Palm	FSU	DC	Development of a SQUID magnetometer for use at low temperatures and high magnetic fields
			Steven Van Sciver	FSU	MST	High-Resolution Separation of Micro- and Nano-Particles by Density and Size Using the Magneto-Archimedes Effect in Liquid Oxygen
			Timothy Logan	FSU	NMR	Glycoprotein and Glycoconjugate NMR at 900 MHz
			Ho Bun Chan	UF	UF Physics	Micromechanical devices for magnetometry in pulsed and continuous magnetic fields
			Gail Fanucci	UF	AMRIS	Double Electron-Electron Resonance (DEER) Spectroscopy of Biological Macromolecules
2004-2006	22	9	Yong-Jie Wang	FSU	DC	Study of Submillimeter Wave and Infrared Radiation - Induced Resistance Oscillations in Ultra High Mobility 2D Electron Systems in
			Dimitry Smirnov	FSU	DC	Magneto spectroscopy of and with IR and THz quantum cascade lasers
			Yan Xin	FSU	MST	High Strength-High Modulus Reinforcement Materials for Magnets
			David Reitze	UF	UF Physics	Ultrafast Coherent Control in High Magnetic Fields
			Randolph Duran	UF	UF Physics	High Magnetic Gradient Studies of Multi-Component Core-Shell Particle Dynamics
			Alex Angerhofer	UF	UF Physics	New EPR Techniques Applied to Oxalate Decarboxylase and Model Systems
			Joanna Long	UF	AMRIS	Development of pulsed high-field/high-frequency EPR spectrometer
			Stephen Hill	UF	EMR	Development of techniques for solid state NMR structural Measurements at high magnetic fields
			Marcelo Jaime	LANL	PFF	Detection of a Coherent Spin Fluid in Quantum Magnets
67						