List Of 2012 Reports

ID#	Title, First Author, and Category	Status
388	**Title:** Wigner-Mott Scaling of Transport Near Two-Dimensional Metal-Insulator Transitions **First Author:** Radonjic, M.M., Institute of Physics, Serbia, milosr@ipb.ac.rs **PI:** Dobrosavljevic, V., NHMFL/FSU, Physics, vlad@magnet.fsu.edu **Category:** Quantum Fluids and Solids **Facility:** CMT/E **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 85/085133 **Sign. Achievement:** Yes **Director's Recommendation:** Yes, definitely **Director's Comments:** Strong evidence that DMFT theory of strong correlations quantitatively describes metallic transport in diluted two-dimensional electron gases near the 2DMIT.	Edited
390	**Title:** Electronic Multicriticality in Bilayer Graphene **First Author:** Vafek, O., NHMFL/FSU, vafek@magnet.fsu.edu **PI:** Vafek, O., NHMFL/FSU, vafek@magnet.fsu.edu **Category:** Quantum Fluids and Solids **Facility:** CMT/E **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 86/075467 **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** predictions of symmetry breaking on bilayer graphene are presented, which are highly relevant to the most recent experiments.	Edited
391	**Title:** Topology and Symmetry Breaking in ABC Trilayer Graphene **First Author:** Vafek, O., NHMFL/FSU, vafek@magnet.fsu.edu **PI:** Vafek, O., NHMFL/FSU, vafek@magnet.fsu.edu **Category:** Quantum Fluids and Solids **Facility:** CMT/E **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. B **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
411	**Title:** Low Temperature Quantum Critical Behavior in the One Dimensional Spin Chain Compound Copper Pyrazine Dinitrate Probed by ^{13}C NMR **First Author:** Kuehne, H.K., NHMFL, hkuehne@magnet.fsu.edu **PI:** Kuehne, H.K., NHMFL, hkuehne@magnet.fsu.edu **Category:** Quantum Fluids and Solids **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
432	**Title:** Intercage Diffusion of Hydrogen in a Z-type Metal Organic Framework **First Author:** Ji, Y., University of Florida, Physics, yji@phys.ufl.edu **PI:** Sullivan, N.S., University of Florida, Physics, sullivan@phys.ufl.edu **Category:** Quantum Fluids and Solids **Facility:** UF Physics **UCGP:** No **VSP:** No **Accepted by** J. Physics Conf. Series **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
28	**Title:** Observation of a Bose Glass State in Doped Quantum Magnet **First Author:** Yu, R., Rice University, Physics, rong.yu@rice.edu **PI:** Yin, L., University of Florioda, Physics, yin@phys.ufl.edu **Category:** Quantum Fluids and Solids **Facility:** High B/T Facility at UF **UCGP:** No **VSP:** No **Published in** Nature **Sign. Achievement:** No	Edited

	Director's Recommendation: No **Director's Comments:** None	
125	**Title:** Quantum Plasticity of Solid ^{4}He: NMR Studies of the Motion of ^{3}He Impurities **First Author:** Candela, D., University of Massachusetts, Physics, sullivan@phys.ufl.edu **PI:** Sullivan, N.S., University of Florida, Physics, sullivan@phys.ufl.edu **Category:** Quantum Fluids and Solids **Facility:** High B/T Facility at UF **UCGP:** Yes **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
247	**Title:** Search for Topological Phases in Ultrathin Sb Films **First Author:** Cairnes, S.D., University of Oklahoma, Physics and Astronomy, smurphy@ou.edu **PI:** Murphy, S.Q., University of Oklahoma, Physics and Astronomy, smurphy@ou.edu **Category:** Quantum Fluids and Solids **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
Total Reports: 8		