LA-SiGMA

Louisiana Alliance for Simulation-Guided Materials Applications

Discovery of broken time-reversal symmetry and topological edge states in chiral superconductors and superfluids

– J. A. Sauls, Northwestern University

The talk is a mix of theory and experimental reports on Sr_2RuO_4, UPt_3 and 3He, with the latter being the first direct detection of chiral edge states and BTRS in superfluid 3He-A. For SRO and UPt_3 I will briefly summarize theoretical predictions for the ground states, connect the edge state discussion of SRO and 3He-A via the topology of their ground states, summarize the search for edge currents and the observations of BTRS via polar Kerr rotation experiments.

SEMINAR, WEDNESDAY MARCH 18, 3:30 PM
1008B DMC, LSU

I received my BSc in Engineering Physics at Colorado School of Mines in Golden (1975), then moved to New York to do graduate work at SUNY-Stony Brook, where I received a Ph.D. in physics in 1980. I did post-doctoral research at Princeton University in New Jersey (1980-83), NORDITA in Copenhagen and Helsinki University of Technology (1983-84), then joined the Princeton physics faculty for four years (1983-1987). Since 1987 I have been a professor of Physics at Northwestern University in Evanston, Illinois.
http://eolus.phys.northwestern.edu

All seminars are available via HD videoconferencing at the following venues:
LA Tech - 122 Nethken Hall, LSU - 1008B DMC, SUBR - 211 J.B. Moore Hall,
Tulane - 600 Lindy Boggs, UNO - 234 Liberal Arts Building, Xavier - 226 Qatar Pavilion.