

Condensed Matter Theory Center Seminar



Thursday, April 21
11:00 am – 12:30 pm
2205 Toll Physics Building

Bertrand I. Halperin
Harvard

“Spin Superfluidity in the $\nu = 0$ Quantum Hall State of Graphene”

Abstract: The ground state of neutral monolayer graphene in a strong perpendicular magnetic field is believed to be the so-called “canted antiferromagnetic $\nu = 0$ Quantum Hall State.” This state is an insulator for charge transport, but it should behave like a superfluid for transport of the spin component parallel to the magnetic field. We have proposed an experiment to demonstrate this effect.

Reference: So Takei, Amir Yacoby, Bertrand I. Halperin, and Yaroslav Tserkovnyak, arXiv:1506.01061.

Host: Sankar Das Sarma

Web: <http://www.physics.umd.edu/cmtc/seminars.html>

