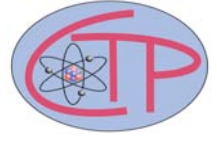




NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
Center for Theoretical Physics



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

Presented by:

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**Thursday, October 20 at 12:00 PM
Namm, Room 823**

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. Here, we have proposed an experiment to demonstrate this effect.

Light refreshments will be served.