

**Robert Willett**  
**Bell Laboratories**

**Physics General Colloquium**  
**Thursday, April 25th**  
**Room 203 at 4:00 pm**

**Refreshments in Room 242 at 3:30pm**



## **Non-Abelian excitations in solid state systems**

**Correlation of charges in two-dimensional electron systems can induce numerous novel physical properties, including fractional charge, fractional statistics, and transitions between statistical classes. Perhaps the most unique of the properties within this system is the predicted demonstration of non-Abelian statistics by a specific set of excitations. In this talk we will review these concepts from an experimental perspective, and present charge interference measurements that demonstrate distinct non-Abelian effects.**