

**Prof. Dr. F. Cichos**  
**Prof. Dr. K. Kroy**



**UNIVERSITÄT LEIPZIG**

**Fakultät für Physik und Geowissenschaften**

Institute für Physik

# **Physik-Kolloquium**

**Dienstag, den 12.10.2010, 17:00 Uhr**

**Prof. Dr. Yuval Gefen**

Department of Condensed Matter Physics,  
Weizmann Institute of Science, Rehovot, Israel

## **How to measure fractional statistics**

One of the key observations in the original theory of the fractional Quantum Hall Effect was the existence of low energy excitations, i.e. effective quasi-particles, which possess fractional charge, and whose quantum statistics is intermediate between fermions and bosons. The issue of such fractional statistics was practically dormant for two decades, but has seen a burst of renewed interest in recent years. I will review here some of the dilemmas associated with the observation of fractional statistics, and discuss proposals for an experimental observation of this elusive effect.

**Ort: Hörsaal für Theoretische Physik, Linnéstraße 5**

**Alle Teilnehmer sind ab 16:30 Uhr zu Kaffee und Kuchen in die Aula eingeladen.**