

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.