

Einladung

zum



Seminar des GRK zusammen mit Lst. Weiss

Donnerstag, 08. Februar 2018, 13:30 Uhr

Raum PHY 9.2.01

**Dr. George Datsaris**

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**“Nonlinear Resonances and Phase-space volume  
conservation lead to robust ballistic transport in antidot  
superlattices”**

The magneto-resistance of antidot lattices shows pronounced peaks, which became a hallmark of ballistic electron transport. While most studies agree that they reflect the interplay of regular and chaotic motion in the quasi-classical dynamics, the exact mechanism has been surprisingly controversial. Inspired by recent experiments on graphene antidot lattices showing that the effect survives strong impurity scattering, we give a new explanation of the peaks linked to a fundamental relation between collision times and accessible phase space volumes, accounting for their robustness.

Gastgeber: Dr. Jonathan Eroms