

1135-47-1690

Simon Becker and **Rui Han*** (rhan@ias.edu), 027 Simonyi Hall, School of Math, IAS, Princeton, NJ 08540, and **Svetlana Jitomirskaya**. *Cantor spectrum of graphene in magnetic fields.*

In this talk, we present a full analysis of the spectrum of graphene in magnetic fields with constant flux through every hexagonal comb of the graphene structure. In particular, we provide a rigorous foundation for self-similarity by showing that for irrational flux quanta, the electron spectrum of graphene is a Cantor set. (Received September 24, 2017)