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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 February 02, 2018)