

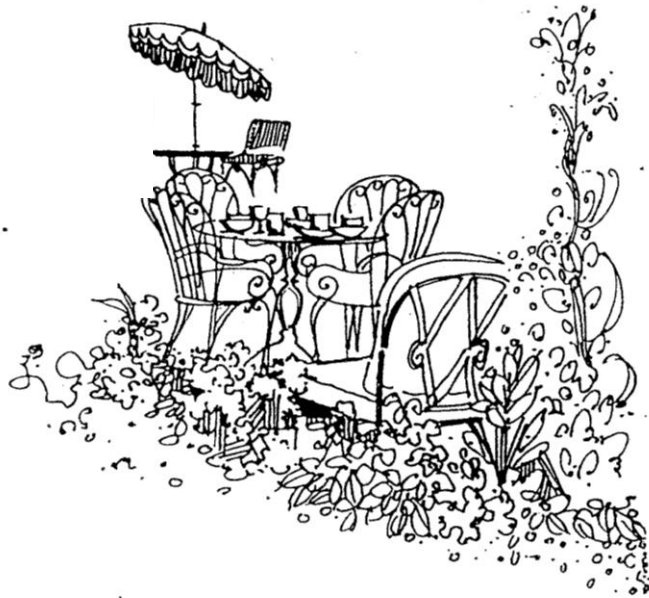
# *Chez Pierre*

Presents ...

**Monday, April 14, 2014**

**12:00pm**

**MIT Room 4-331**



## **Chez Pierre Seminar**

**Dmitri Kharzeev**

Stony Brook University/Brookhaven National Laboratory

*“The chiral magnetic effect in Dirac and Weyl semimetals”*

Recently discovered 3D Dirac and Weyl semimetals possess massless chiral quasi-particles, and are affected by the triangle anomalies. Quantum anomalies can induce novel non-dissipative transport phenomena in these materials - so-called "chiral magnetic" and "chiral vortical" effects. I will discuss the conditions under which these effects are expected to exist, and what measurements can establish their existence.