

# *Chez Pierre*

Presents ...

**Wednesday, January 22, 2014**

**12:00pm**

**MIT Room 4-331**



## **Special Chez Pierre Seminar**

**Yuki Sato**

Rowland Institute – Harvard University

### ***“Emergent physics of artificial materials and quantum engineering”***

Recent advances in the field of metamaterials have extended beyond the manipulation of electromagnetic waves and started to cover a wide variety of physical phenomena. In this talk, I will first discuss heat flux manipulation with prescribed anisotropy and our effort to understand and establish independent control of multiple physical phenomena simultaneously within the same material using artificial structures. I will also describe other projects that are going on within our group, including quantum engineering based on superfluidity.