

CROSSTALK

May 2, 2016

12-1pm, Bldg 734

Dr. Neil Robinson

Emergent Phenomena in
Condensed Matter Physics

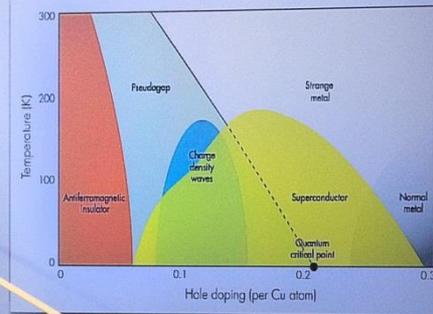
The CrossTalks Series

- ❖ Started back in 2005 (but has had several hiatuses!)
- ❖ Organized by the Association of **Students And Postdocs**
- ❖ Talks *by* postdocs and students *for* postdocs and students
- ❖ Colloquium style: accessible to wide audience
- ❖ Overview of a field or your research
- ❖ Want to volunteer to give one?
Contact Amber Teufel ateufel@bnl.gov

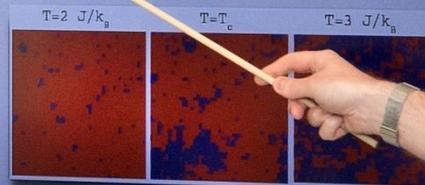


What is condensed matter physics?

- ❖ The study of solids, liquids, and squidgy stuff
- ❖ Big questions:
 - ❖ What phases of matter exist?
 - ❖ How to “classify” the phases of matter?
 - ❖ How do you describe the transition between two (or more) different phases?
 - ❖ Why does a specific material have the properties that it does?
 - ❖ How does a material respond to external stimuli or experimental probes?
 - ❖ How to design material with specific qualities and properties?
 - ❖ ...



<https://www.quantamagazine.org>



<http://quantumtheory.physik.unibas.ch>

