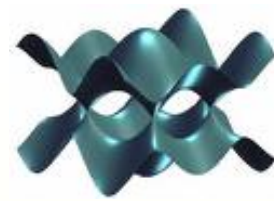


# CU Physics Department Colloquium

Monday, November 12, 2007 4:10 PM 428 Pupin Hall

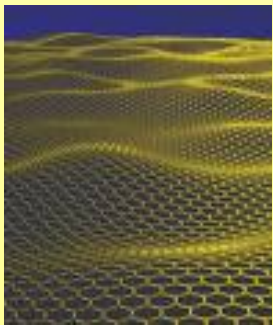


**Alessandra Lanzara, University of California, Berkeley**

## **Dirac particles in a pencil trace**

The recent discovery of graphene, a two dimensional carbon crystal, has generated a lot of excitement in condensed matter community because of its unusual electronic properties as well as its potential applications. The secret lies in the relativistic character of its charge carriers, which make graphene the ideal system where relativistic quantum physics and condensed matter physics meets.

We will present an overview of the electronic properties of Dirac quasiparticle in graphene and discuss its similarities with high temperature superconductors. The great potential of graphene films for next generation electronic devices is discussed.



**Hosted by Philip Kim**

