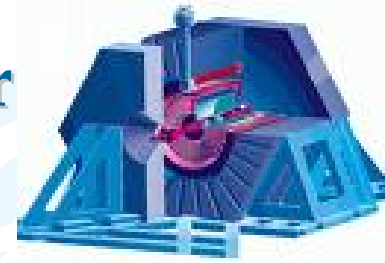


# CU Physics Department Particle Seminar

Wednesday, October 15, 2008 705 Pupin Hall 1:00 PM



## Quark Flavor Physics Highlights of 2008

I will give an overview of some interesting results that have recently come out of the B-factory and Tevatron programs. I will briefly cover spectroscopy where Belle, BaBar, and DØ have all claimed discovery of new states in summer 2008. Next, I will discuss searches for new sources of CP violation needed to explain the matter dominance of our universe. Here, I will focus on anomalous direct CP violation seen in charmless two-body B decay at B-factories and anomalous indirect CP violation seen in Bs mixing at the Tevatron. Finally, I will discuss searches for new charged current interactions that violate lepton universality such as a charged Higgs where information is now available from top, bottom, charm, and strange quark decay.

**Brendan Casey, FNAL**

**Meet the Speaker Discussion to follow  
3:00 PM in 705 Pupin**

