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Search for D^0 -> gamma gamma at BESIII

Wednesday, May 16, 2012 4:20 PM (20 minutes)

Chair: Xerxes Tata (UH)

 Abstract:

The BESIII detector, with the BESCII e+e- collider, has collected the world largest data sample, 2.89/fb, taken at sqrt(s)=3.773 GeV which is very close to the nominal mass of the psi(3770) state. As the psi(3770) decays into a pair of DDbar most of the time, a relatively clean and simple event environment is obtained, and thus, it is very interesting to search for rare decays of D mesons that are either highly suppressed or forbidden by the standard model. In this talk, I briefly review the present experimental status of rare decays of D mesons. I will then present preliminary results on D0 decays to pi0 pi0 and gamma gamma based on the BESIII data. Some future prospects of rare and forbidden charm decays at the BESIII will be also discussed.

Presenter: MURAMATSU, Hajime (University of Rochester)

Session Classification: Mixing, CPV, Rare, Charm Amplitudes Session