Contribution ID: **633** Type: **not specified**

# Quantum-correlated D Decays at CLEO-c

*Friday 17 July 2009 12:00 (15 minutes)*

The 818 fb-1 dataset collected at the psi(3770) resonance in the CLEO-c detector offers unique possibilities for measuring strong phase differences in neutral D decays. The measurements require that both D mesons in the event are fully reconstructed, usually with one decaying to the signal mode of interest, and the other to a CP eigenstate. The strong phase differences extracted from these decays are important inputs to measurements of D-mixing parameters and the determination of the CKM angle gamma in B –> DK decays. Results will be present from a variety of D decays including KSpipi, KSKK and other 3- and 4-body modes. The impact of these results on the measurement of the CKM angle gamma/phi3 will be discussed.

**Primary author:** Prof. CLEO COLLABORATION, CLEOAC (Cornell University – CLEO Analysis Coordinator)

**Presenter:** Dr RICCIARDI, Stefania (STFC Rutherford Appleton Laboratory)

**Session Classification:** II. Flavour Physics

**Track Classification:** Flavour Physics