Contribution ID: **702** Type: **Parallel Session Talk**

Quantum-correlated D-decays at CLEO-c

Friday 23 July 2010 15:26 (17 minutes)

The 818 fb-1 dataset collected at the psi(3770) resonance at CLEO-c 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 -> D K decays. Results will be presented from a variety of D decays including KS pi pi, KS K K and other 3- and 4-body modes. The impact of these results on gamma measurements will be discussed.

Authors: Prof. CASSEL, David (Cornell University); Prof. WILKINSON, Guy (Oxford University)

Co-author: COLLABORATION, CLEO (CLEO Collaboration)

Presenter: WILKINSON, Guy (Nuclear Physics Laboratory)

Session Classification: 06 - CP violation, CKM and Rare Decays

Track Classification: 06 - CP violation, CKM and Rare Decays