Abstract Submitted
for the APR08 Meeting of
The American Physical Society

Measurements of D decay at CLEO-c related to the determination of the unitarity triangle angle γ LAUREN MARTIN, Oxford University, CLEO COLLABORATION — One of the principal goals of flavour physics is the accurate determination of the unitarity triangle angle γ. Several of the theoretically cleanest strategies to determine γ use $B \to DK$ decays, where the D is either a D^0 or $\bar{D}^0$ decaying to the same hadronic final state. The full exploitation of these decays requires excellent knowledge of the parameters and amplitudes of the D decay, particularly if the D decays to a three or four-body final state. The best environment to determine the D-decay parameters are quantum correlated $D^0\bar{D}^0$ decays produced in e^+e^- collisions at a centre-of-mass energy equal to the mass of the $\psi(3770)$. We report preliminary results from the CLEO-c experiment of some of the parameters relevant to the determination γ in B-decay.

Paras Naik
University of Bristol

Date submitted: 08 Jan 2008 Electronic form version 1.4