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Quantum-correlated D-decays at CLEO-c

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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 γ in $B \rightarrow D K$ decays. Results will be presented from a variety of D decays including $K_S \pi \pi$, $K_S K K$ and other 3- and 4-body modes. The impact of these results on γ measurements will be discussed.

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