

Abstract Submitted
for the APR06 Meeting of
The American Physical Society

A Study of the Charmed Semileptonic Decays $D^0 \rightarrow K^\pm e\nu$, $D^0 \rightarrow \pi^\pm e\nu$, $D^\pm \rightarrow K^0 e\nu$ and $D^\pm \rightarrow \pi^0 e\nu$ NADIA ADAM, Cornell University, CLEO COLLABORATION — Using a sample of 1.8 million $D\bar{D}$ mesons collected at the $\psi(3770)$ with the CLEO detector, and a reconstruction method based on the full event hermeticity, we measure branching fractions and branching fraction ratios for the four exclusive semileptonic decay modes $D^0 \rightarrow K^\pm e\nu$, $D^0 \rightarrow \pi^\pm e\nu$, $D^\pm \rightarrow K^0 e\nu$ and $D^\pm \rightarrow \pi^0 e\nu$. Form factors are measured using a fit to the branching fraction results in five q^2 bins. Three form factor models are explored, the simple pole model, the modified pole model and a series parameterization model. In addition we fit for the CKM matrix element $|V_{cs}|$ and the ratio $|V_{cd}|/|V_{cs}|$.

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Date submitted: 10 Jan 2006

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