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A study of form-factors in $D^0 \rightarrow K_S \pi^- e^+ \nu_e$ decays HONGXUAN LIU, MILIND PUROHIT¹, University of South Carolina — We use 429 fb⁻¹ of data recorded by the BaBar detector at the PEP-II electron-positron collider to study the $D^0 \rightarrow K_S \pi^- e^+ \nu_e$ decay channel. We fit the data to a 5-dimensional distribution of the decay quantities q^2 , $\cos \theta_V$, $\cos \theta_\ell$, χ and $m_{K_S \pi}$ and present preliminary measurements of the decay amplitude and the Branching Fraction.

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