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Model-Independent Partial-Wave Analysis of $D^+ \to K^-\pi^+\pi^+$ KAZUHITO SUZUKI, Stanford Linear Accelerator Center, BABAR COLLABORATION — We report a preliminary result of a model-independent partial-wave analysis of the $D^+ \to K^-\pi^+\pi^+$ decay. The decay provides a good sample to improve our knowledge of the partial-wave structures in the $K\pi$ system from such decays. The analysis is performed using data collected by the BaBar detector at the PEP-II asymmetric-energy e^+e^- storage rings at SLAC. A high-statistics sample enables us to perform the analysis without employing theoretical models in the S- and P-wave parameterizations. The result may provide a useful application in heavy-flavor physics.

Owen Long
University of California Riverside

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