

Abstract Submitted
for the APR09 Meeting of
The American Physical Society

Amplitude Analysis of the Decay $B^0 \rightarrow K^+\pi^-\pi^0$ ANDREW WAGNER, SLAC, BABAR COLLABORATION — We report an updated amplitude analysis of the charmless hadronic decays of neutral B mesons to $K^+\pi^-\pi^0$. With a sample of 454 million $\Upsilon(4S) \rightarrow B^0\bar{B}^0$ decays collected by the BABAR detector at the PEP-II asymmetric-energy B Factory at SLAC, we measure the magnitudes and phases of the intermediate resonant and nonresonant amplitudes for B^0 and \bar{B}^0 decays and determine the corresponding branching fractions and charge asymmetries. Combined with measurements of phases from B decays to $K_s\pi^+\pi^-$ we constrain the CKM angle γ .

J. Michael Roney
Univ. of Victoria

Date submitted: 09 Jan 2009

Electronic form version 1.4