Abstract Submitted for the APR05 Meeting of The American Physical Society

Measurement of the time-dependent CP asymmetry in ${\bf B}^0 \to \pi^+\pi^-$ decays and observation of direct CP violation in the decay $B^0 \to K^+\pi^-$ XUANZHONG LI, Massachusetts, BABAR COLLABORATION — We present a measurement of the time-dependent CP asymmetry in the decay $B^0 \to \pi^+\pi^-$ and observation of direct CP violation in the decay $B^0 \to K^+\pi^-$, using data collected with the BaBar detector at the PEP-II asymmetric energy e^+e^- collider at SLAC.

Christopher Hearty University of British Columbia

Date submitted: 07 Jan 2005 Electronic form version 1.4