Abstract Submitted for the APR08 Meeting of The American Physical Society

Measurement of the Mass of the τ **Lepton** PARKER LUND, University of California at Irvine, BABAR COLLABORATION — Using a pseudomass technique, we present the first precision measurement with the BaBar detector of the mass of the τ lepton using $\tau \to 3\pi\nu_{\tau}$ decays. The measurement will use 446 million $\tau^+\tau^-$ pairs produced in the 485 fb^{-1} of data collected by the BaBar detector at the PEP-II asymmetric-energy *B* Factory.

Owen Long University of California Riverside

Date submitted: 11 Jan 2008

Electronic form version 1.4