

Abstract Submitted
for the SES17 Meeting of
The American Physical Society

Isospin Violation Measurement at the Upsilon(4S) Resonance¹

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BABAR COLLABORATION — Isospin violation at the Upsilon(4S) resonance is an important input for many B meson measurements at B Factories. It may be at the level of a few percent mostly due to electromagnetic interactions and the mass

different of the up and the down quarks. We partially reconstruct neutral B meson in the semileptonic decay of $\bar{B}^0 \rightarrow D^{*+} \ell \bar{\nu}$. We discuss a model independent measurement of the branching fraction of Upsilon(4S) decays to neutral BB pairs based on a data sample of 470 million BB pairs collected at the Upsilon(4S) resonance with the BABAR detector at SLAC.

¹The authors would like to thank the BABAR Collaboration. This work was supported in part by the U.S. Department of Energy and the University of South Alabama

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Date submitted: 05 Oct 2017

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