

Abstract Submitted  
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**Measurement of the Branching Fraction of  $\Upsilon(4S)$  to  $B^0\text{-}B^0\text{bar}$** <sup>1</sup>  
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University of South Alabama — Based on a data sample of 476 million B-meson  
anti-B-meson pairs collected at the Upsilon(4S) resonance with the BABAR de-  
tector at the PEP-II asymmetric-energy B-Factory at SLAC, we measure a model  
independent measurement of the branching fraction of Upsilon(4S) decays to  $B^0$  and  
anti- $B^0$  pair. The B mesons are reconstructed in the channel anti- $B^0$  decays to  $D^{*+}$ -  
lepton anti-neutrino using a partial reconstruction method. Our result does not de-  
pend on any branching fractions, the simulated reconstruction efficiency, the ratio  
of the charged and neutral B-meson lifetimes, or assumption of isospin symmetry.  
This measurement is important for normalizing many B-decay branching fractions.

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