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Measurement of the branching fraction of $\Upsilon(4S) \to B^0\bar{B}^0$ at BABAR[1] ROMULUS GODANG, University of South Alabama, BABAR COLLABORATION — Based on a data sample of 476 million $B\bar{B}$ pairs collected at the $\Upsilon(4S)$ resonance with the BABAR detector at the PEP-II asymmetric-energy B-Factory at the SLAC National Accelerator Laboratory, we conduct a direct, model-independent measurement of the branching fraction of the $\Upsilon(4S)$ decay to a $B^0\bar{B}^0$ pair. The B mesons are partially reconstructed in the decay $\bar{B}^0 \to D^{*+}\ell^-\bar{\nu}_\ell$. This measurement is important for normalizing many B-decay branching fractions.

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