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Technique for an improved measurement of the $\Upsilon(4S) \rightarrow B^0\bar{B}^0$ branching fraction ROMULUS GODANG, University of South Alabama, BABAR COLLABORATION — We present a technique for improving the determination of the $\Upsilon(4S) \rightarrow B^0\bar{B}^0$ branching fraction using data collected by the BaBar detector at the PEP-II asymmetric-energy e^+e^- collider at SLAC. We present the projected precision of the improved measurement and what can be learned from such a measurement.

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