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A Measurement of the Photon Energy Spectrum in $b \rightarrow s\gamma$ Decays LUKE WINSTROM, University of California, Santa Cruz Institute for Particle Physics, BABAR COLLABORATION — The photon spectrum in the $B \rightarrow X_s\gamma$ decay, where X_s is any strange hadronic state, is studied using a data sample of $B\bar{B}$ decays collected from 1999-2006 with the BaBar experiment. The spectrum is used to measure the partial branching fractions and the first and second moments for different E_γ thresholds above 1.9 GeV.

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