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BaBar Measurements of the Exclusive Radiative Penguin Decays $B \to K^*\gamma$ and $B \to K\pi\pi\gamma$ ALEXANDER SAMUEL, California Institute of Technology, BABAR COLLABORATION — We present measurements of exclusive radiative penguin decays of the B meson, $B \to K^*\gamma$ and $B \to K\pi\pi\gamma$. Measurements include the branching fractions, CP asymmetries, and hadronic mass distributions of events exclusively reconstructed from various combinations of kaon, pion, and photon candidates. The CP asymmetries are sensitive to new physics at the electroweak scale, and the branching fractions and hadronic mass distribution allow for the evaluation of the contribution of various kaon resonances to the $b \to s\gamma$ quark decay process. The data samples studied comprise 230 million $\Upsilon(4S) \to B\overline{B}$ decays collected with the BaBar detector at the PEP-II e^+e^- storage ring.

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