

## Search for dark matter and dark forces at BaBar

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Recent astrophysical observations have motivated interest in models with a dark sector with GeV-scale gauge and Higgs bosons. In such models, dark-sector photons typically mix with the standard-model photon, enabling their detection in  $e+e-$  collisions at BABAR, with very little background in some of the channels. We present searches for a dark-sector photon and a dark-sector Higgs boson and set stringent limits on the parameters of the model. Our limits on the SM-dark sector mixing parameter are tighter than previous limits by up to two orders of magnitude, depending on the masses of the dark Higgs and dark boson.

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