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Recent Results of Dark Sector Searches with the BaBar Experiment

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Many scenarios of physics beyond the Standard Model predict new particles with masses well below the electroweak scale. Low-energy, high luminosity colliders such as BABAR are ideally suited to discover these particles. We present several recent searches for low-mass dark sector particles at BABAR, self-interacting dark matter, axion like particles and dark sector particles produced in B meson decays. These examples demonstrate the importance of B-factories in fully exploring low-mass new physics and dark sectors.

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