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Recent Results of B Mesogenesis and Dark Sector at $BABAR$

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Searching for New Physics beyond the Standard Model is one of the most intriguing topics in modern physics, and many theoretical models predict new particles with masses well below the electroweak scale. The $BABAR$ experiment collected data at the energy of $\Upsilon(4S)$, suitable for discovering such new particles. This talk presents several recent searches for B Mesogenesis and dark sector particles at $BABAR$, including the scenarios that the B meson decays to a baryon and a dark particle simultaneously, searches for B meson decays to axion-like particles via gauge boson coupling, and for self-interacting dark matter in electron-positron annihilation.

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