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Type: **Oral presentation**

New physics searches from the BABAR experiment

Thursday 12 October 2023 11:20 (20 minutes)

The BABAR experiment continues to produce interesting new constraints from searches for new physics in exotic and dark sector signatures using its extensive data set of B factory data collected in the vicinity of the Upsilon(4S) resonance. This large data set, with well-understood detector conditions and precisely controlled systematics, has demonstrated utility for both exotic rare decay searches and high-statistics precision measurements of Standard Model observables with potential sensitivity to new physics contributions. This presentation will summarize recent BABAR results of searches for light dark matter candidates in B meson decays, heavy neutral leptons, and charged lepton flavour violation. The implications for $g-2$ of recent precision measurements of the e^+e^- hadronic cross sections will also be discussed.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

BABAR Collaboration, SLAC

Is the speaker for that presentation defined?

Yes

Details

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Internet talk

No

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