

Phenomenology 2021 Symposium



Contribution ID: 1109

Type: BSM

Recent Results of Dark Sector Searches with the BaBar Experiment

Tuesday 25 May 2021 18:15 (15 minutes)

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, including lepton-philic scalars, self-interacting dark matter, and axion like particles produced in B decays. These examples demonstrate the importance of B-factories in fully exploring low-mass new physics.

Summary

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Session Classification: BSM IV