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A decade of dark sector and light dark matter searches at B-factories

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Elucidating the nature of dark matter remains a central challenge in fundamental physics. A growing interest in light (sub-GeV) dark matter consisting of new particles coupling only feebly to ordinary matter has emerged over the last decade. Low-energy, high luminosity colliders experiments, such as BABAR, are ideally suited to probe these possibilities. In this talk, we will review the numerous searches for dark sectors and light dark matter performed at BABAR, and discuss future perspectives at B-factories together with their implications. These measurements demonstrate the importance of low-energy high Luminosity colliders in fully exploring dark matter and light BSM physics.

Summary

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