

Abstract Submitted
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Muonic Dark Boson Search at the BABAR Experiment¹ ROMULUS GODANG, University of South Alabama, BABAR COLLABORATION — We report searches for a muonic dark boson coupling only to the second and third lepton families. The existence of the dark boson is probed in $e+e^-$ events using the full data sample collected by the BABAR experiment. No significant signal is observed. We set a limit on dark-sector coupling parameter, leading to improvements in the current bounds and further constrain the allowed parameter space.

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