

Abstract Submitted
for the APR18 Meeting of
The American Physical Society

Search for DARK Force at BABAR RICHARD KASS, Ohio State Univ - Columbus, BABAR COLLABORATION — We report on two searches for low mass states predicted in several New Physics models performed with data collected by the BaBar detector at the PEP-II electron-positron collider. The motivations and specifics of a search for a new muonic dark force as well as a search for dark photons are given in detail. Results from the searches are presented as well as upper limits on dark-sector coupling constants and implications for the $g-2$ anomaly.

Richard Kass
Ohio State Univ - Columbus

Date submitted: 09 Jan 2018

Electronic form version 1.4