

Abstract Submitted  
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**Search for a light Higgs Boson at Babar** ROCKY SO, University of British Columbia, BABAR COLLABORATION — Babar collided electrons and positrons at a centre of mass energy of 10GeV at the Stanford Linear Accelerator Center. A light CP-odd Higgs boson is expected in extensions to the Standard Model such as Next to Minimal Supersymmetry. The Babar Collaboration searched for a light Higgs boson ( $A_0$ ) produced in radiative decays of an  $Y$  meson. We saw no evidence of the  $A_0$  decaying into various final states with a sample of 122 million  $Y(3S)$ , 99 million  $Y(2S)$ , and 23 million  $Y(1S)$  collected at the PEP II B-factory. We exclude some of the parameters space of Next to Minimal Supersymmetry. Some searches are published and a few is still in the analysis stage. I will present work done by the collaboration as well as my work in progress for the  $A_0$  to hadrons.

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