

Abstract Submitted
for the SES10 Meeting of
The American Physical Society

Search for non-Standard Model CP-odd Higgs Boson¹ ROMULUS GODANG, University of South Alabama — We search for a new light non-Standard Model CP-odd Higgs boson, A_0 , using a data sample of Upsilon(1S), Upsilon(2S), and Upsilon(3S) collected by the BABAR detector at the SLAC PEP-II B-factory. We also search for an undetectable Upsilon(1S) decay recoiling against the dipion system. Our results constrain to the simplest minimal supersymmetric model extension, the next-to-minimal supersymmetric model (NMSSM).

¹This work was supported by the U.S. Department of Energy under grant No. DE-FG02-96ER-40970.

Romulus Godang
University of South Alabama

Date submitted: 12 Aug 2010

Electronic form version 1.4