Scalars 2015

Contribution ID: 13

Searches for low-mass scalar particles with the BABAR detector

Content:

We present results from the BaBar experiment on searches for low-mass new physics. This includes a search for a light CP-odd Higgs boson (A0) in Upsilon(1S) -> gamma A0, A0 -> ccbar decays, providing limits on the product branching fraction B(Upsilon(1S) -> gamma A0)xB(A0 -> ccbar) at the level of 7x10-5 - 2x10-3 for A0 masses between 4.0 GeV and 9.25 GeV; and a search for neutral, long-lived particles produced in e+e- collisions or neutral B meson decays obtaining limits on the product of the production cross-section, branching fraction, and reconstruction efficiency are set for each final state.

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