

DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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Direct searches for New Physics particles at BABAR

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We report on the latest searches for low mass states predicted in several New Physics models performed with the data collected by the BABAR detector.

These include:

searches for the so-called dark photons in e^+e^- annihilations ($e^+e^- \rightarrow \gamma A'$, $A' \rightarrow e^+e^-$, $\mu^+\mu^-$), and for long-lived particles motivated by recent astrophysical observations;

searches for non-standard π^0 -like particle production in $e^+e^- \rightarrow \tau^+\tau^-$ events;

and searches for a low mass CP-odd Higgs boson predicted in non-minimal supersymmetric extensions of the Standard Model.

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