

Abstract Submitted
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Search for Six-Quark State at BABAR Experiment ROMULUS GODANG, University of South Alabama, BABAR COLLABORATION — Six-quark combination $uuddss$ are allowed by Quantum Chromodynamics (QCD). It could be deeply bound state that has eluded detection. The stable six-Quark state is a potentially Dark Matter candidate. Based on a data sample of 90 million of Upsilon(2S) and 110 million Upsilon(3S) decays collected by the BABAR Experiment. We report the first search for a stable Six-Quark state in the decay of Upsilon to S Λ \bar{d} Λ \bar{d} . These bounds set stringent limits on the existence of such exotic particles.

Romulus Godang
University of South Alabama

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