

New Perspectives 2016



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SeaQuest in 10 Minutes

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SeaQuest E906 is an experiment aimed at studying the anti-quark distributions in the nucleon and nuclei. The experiment uses a 120 GeV proton beam extracted from the Main Injector at Fermilab to collide with various liquid and cryogenic targets to study a variety of physics topics. It takes advantage of the Drell-Yan process to probe the nucleon sea. In the Drell-Yan process, a quark from one hadron annihilates with an anti-quark from another hadron, producing a virtual photon which eventually decays into a dilepton pair. The SeaQuest forward spectrometer is optimized for detecting the high rate di-muon pairs. The overall status of the experiment and some results will be presented in this talk.

Primary author: Mr TADEPALLI, Arun (Rutgers University)

Presenter: Mr TADEPALLI, Arun (Rutgers University)

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