

Abstract Submitted  
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**$\bar{d}/\bar{u}$  Ratio in the Proton at Seaquest** DANIEL MORTON, Univ of Michigan - Ann Arbor, E906 SEAQUEST COLLABORATION — The Fermilab E906 SeaQuest experiment measures muons produced from a 120 GeV proton beam incident on liquid Hydrogen, Deuterium and solid C, Fe and W targets. Muons produced through the Drell Yan process are used to measure nuclear effects, in particular for light sea quarks that the SeaQuest spectrometer is optimized to measure. The ratio of  $\bar{d}$  to  $\bar{u}$  quarks was expected to be one when only considering gluon splitting, but was found to deviate from that significantly in past experiments. Using the ratios of deuterium to hydrogen cross sections, the ratio of  $\bar{d}/\bar{u}$  quarks will be extracted for Björken x values up to .45. This probes a higher x region than previous experiments.

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