

Abstract Submitted  
for the DNP16 Meeting of  
The American Physical Society

**Drell-Yan with a polarized target and SeaQuest** ANDI KLEIN, Los Alamos National Laboratory — We will discuss the new E1039 experiment at Fermilab to measure the single spin asymmetry of the Drell-Yan process on a transversely polarized target. This measurement can be used to determine the sign and magnitude of the Sivers asymmetry. A non-vanishing Sivers asymmetry requires a non-zero orbital angular momentum contribution of the sea quarks to the nucleon spin. This will be the first ever measurement of the Sivers asymmetry for the  $\bar{u}$  quark. The experiment will be a continuation of the current unpolarized SeaQuest program at Fermilab.

Andi Klein  
Los Alamos National Laboratory

Date submitted: 30 Jun 2016

Electronic form version 1.4