## Abstract Submitted for the DNP11 Meeting of The American Physical Society

Reconstructing Drell-Yan Data at SeaQuest¹ TYLER HAGUE, Abilene Christian University and Argonne National Laboratory, SEAQUEST COLLAB-ORATION — SeaQuest is a fixed target experiment at Fermi National Accelerator Laboratory. Using the 120-GeV main injector, SeaQuest will study the nucleon sea through proton-proton and proton-deuterium Drell- Yan reactions. Measurements on d-bar/u-bar ratios, as well as parton energy loss and the EMC Effect will be obtained using the Drell-Yan process of muon pair production. The MySQL database for SeaQuest and a new approach utilizing database commands for track reconstruction will be described. Reconstruction occurs within the database using dynamically created queries to create temporary tables. These are used to construct partial tracks at each station that can be combined into full tracks. Typically the wire chambers at each station will be used for tracking and the hodoscopes will be used for the trigger. In addition, track reconstruction with only hodoscopes is being developed for monitoring hodoscope efficiencies.

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