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Commissioning Status of the Drift Chamber for a Di-Muon Spectrometer at the E906/SeaQuest Experiment at Fermilab

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Fermilab E-906/SeaQuest is a fixed target experiment, which uses the Drell-Yan process to measure the contributions of antiquarks to the structure of the proton. It will use a 120GeV proton beam from the Fermilab Main Injector. The spectrometer is currently being assembled at Fermilab. After commissioning in spring 2011 data will be taken intermittently for two years.

Tokyo Institute of Technology designed, built and setup together with the other Japanese collaborators a new drift chamber for the E-906/SeaQuest experiment. It consists of an active area of 2.3m in width x 1.7m in height and of six active planes. The drift chamber provides a spatial resolution of less than 400um. Additionally, a small test chamber was fabricated. Its cell structure is identical to the big chamber.

In this talk, I will show and discuss the latest calibration results of the test chamber and, finally, I will give a status report on the commissioning of the drift chamber at Fermilab.