

# E906/SeaQuest AEM Report

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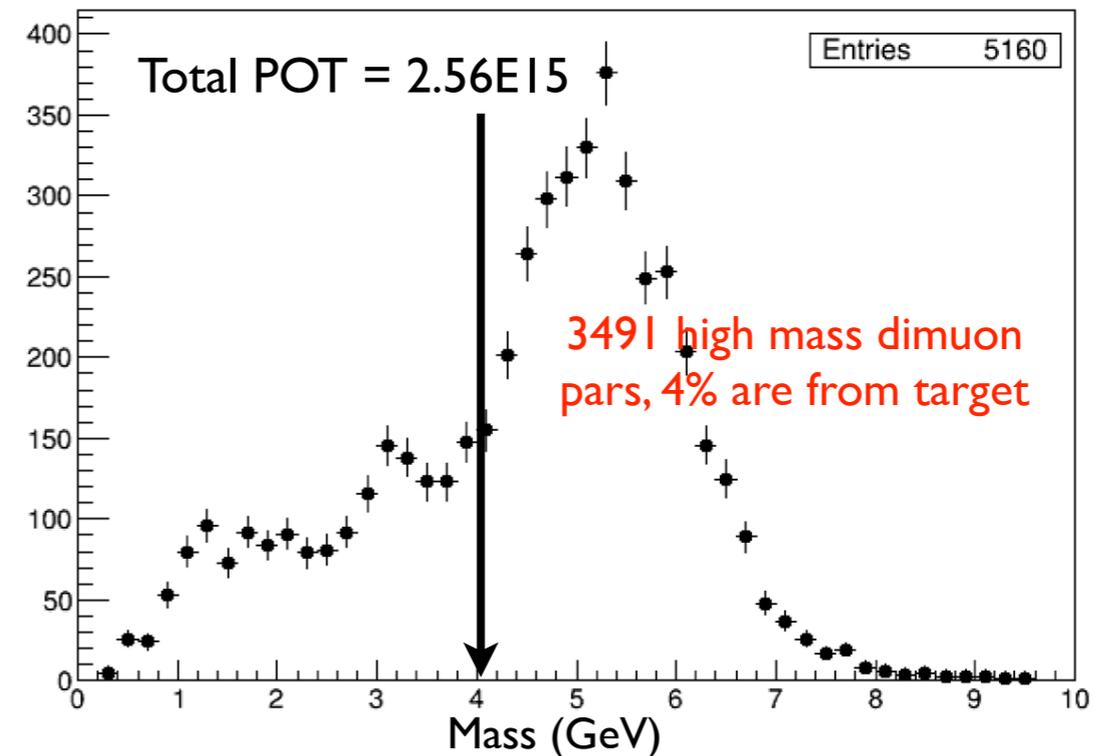
# General status

- Detectors are working smoothly with high efficiency.
- Continued issue of false flammable gas alarm in target enclosure.
- 360 Hz filter was installed on MI quad supplies in the 2-day shutdown. 360 Hz component on FFT is greatly reduced when beam returns. Duty factor gets worse though, as the filter is not installed on dipole supplies yet.
- We keep taking high mass DY data as scheduled, and changed to a short J/Psi run in the weekend.

- Total protons delivered:

➤ NIM3ION:  $5.18E15$

➤ G2SEM:  $8.57E15$



# Major downtimes

- Mar. 24, Monday, 7:00 AM - 5:30 PM:
  - Survey station 1 and 2 hodoscope after we re-centered them
  - Replace the mirror of Cenrenkov beam monitor
  - Re-arrange the electronic readout to reduce dead time
- Mar. 26, Wednesday, 4:00 AM - Mar. 27, Thursday, 5:30 PM
  - Prepare for the installation of new setra pressure sensor for H<sub>2</sub> line
  - Replace the flammable gas detector in the target enclosure

# Ongoing works

- Waiting for replacement parts of flammable gas sensor and pressure gauge
- Continued work on increasing live time reducing background
  - Using faster ROC CPU
  - Optimize beam inhibit threshold
  - Various settings for L2 trigger (high level selection on dimuon properties)
- Taking J/Psi data for understanding detector performance as well as early physics results