Experiment E99-117

Analysis for detector PID efficiency

- High PID efficiency required for E99-117
  - High pion rate $\pi^-/e^- \sim$ 20
  - High A_{π^-}
  - $\eta_{\pi,rej} > 10^4$ required
- Hall A HRS detector PID efficiency
  - Oct.28, 2000, gas cerenkov (GC) testrun
  - Jan. 2001, 2nd layer of pion rejector installed on left arm
  - Mar.26, 2001, PID analysis using E94104 data
    - Identify mirror/PMT problem, loose mount, old PMTs etc.
    - Detector uninstalled and repaired
  - Apr.20, 2001, extension of 0.8m GC installed (Rutgers)
  - May, 2001, two new PMTs installed on left GC
  - June 5, 2001, Combined pion rejection efficiency 10^{-4} achieved

URL:

http://hallaweb.jlab.org/physics/experiments/he3/A1n/index.html#testrun

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