

PRad RC Report

(Week of June 13 - 19)

Highlights:

June 12: Reached production goal for 1.1 GeV beam on Hydrogen.

A reference measurement on a 1 μ m thin Carbon target also completed.

June 13 (Mon): switch to 2 pass beam

June 15 (Wed) 5:00 AM: 2 pass beam on target (1 hr of production @ 15nA)

June 16 (Thur): production at 25 nA

June 17-20: production at 55 nA

(87% livetime, trigger rate \sim 4.5kHz, data rate \sim 400 MB/sec)

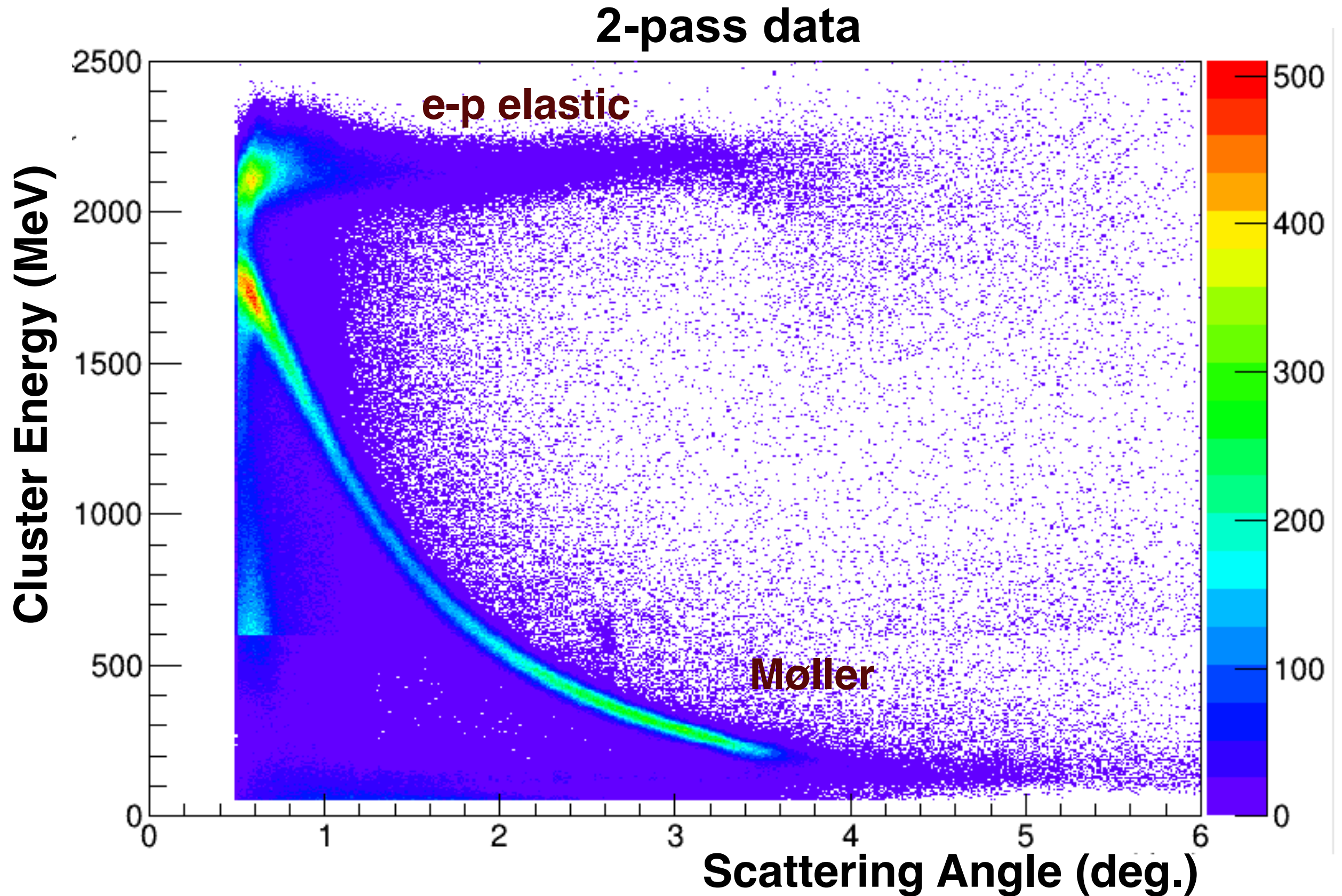
(under the extended weekend agreement production to continue through day shift today until 6:00 AM Tuesday).

Thur-Fri: beam was restored within 2-4 hours after closing the Hall.

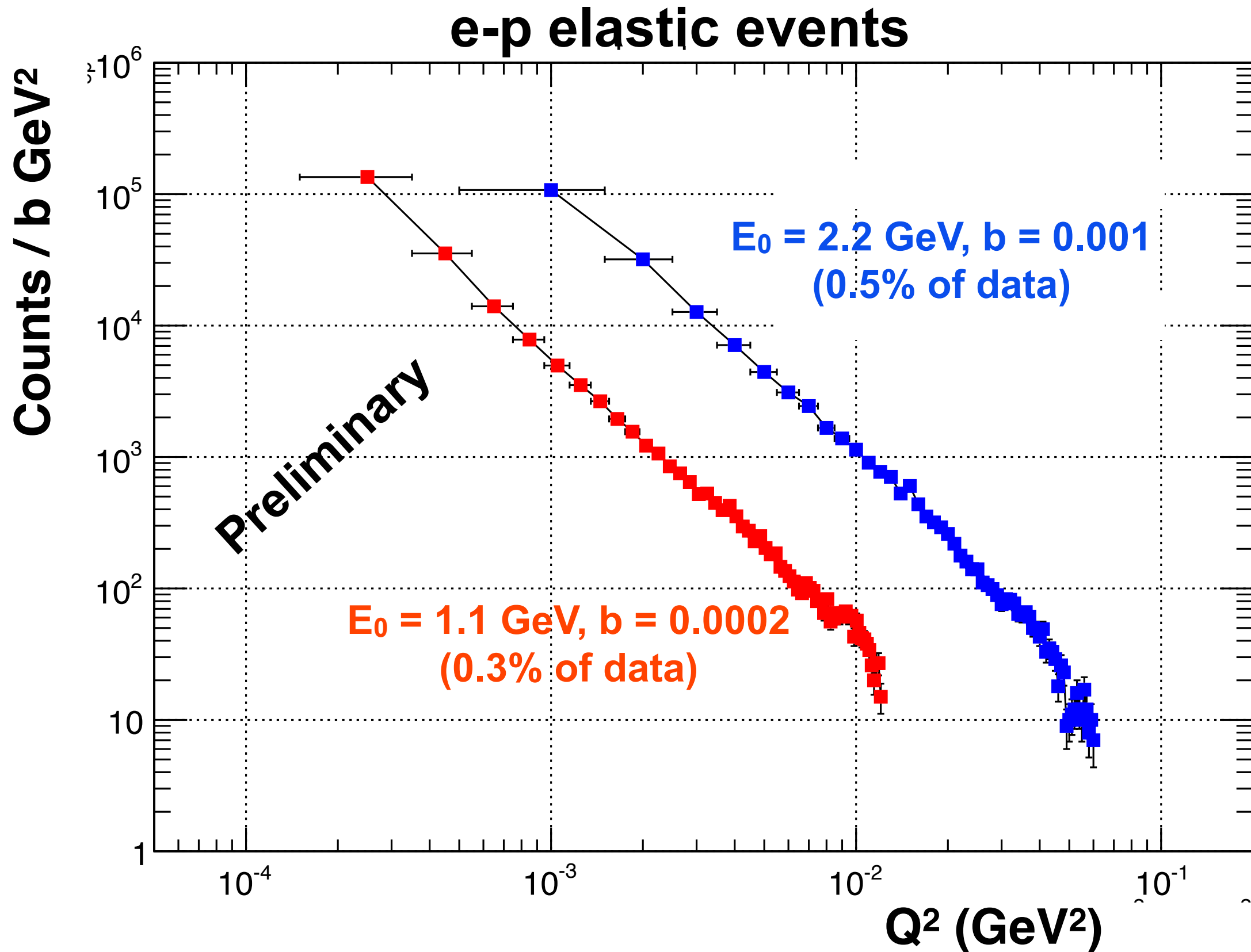
87% of approved PAC days used up so far.

87% of production and 100% of calibration data collected to date.

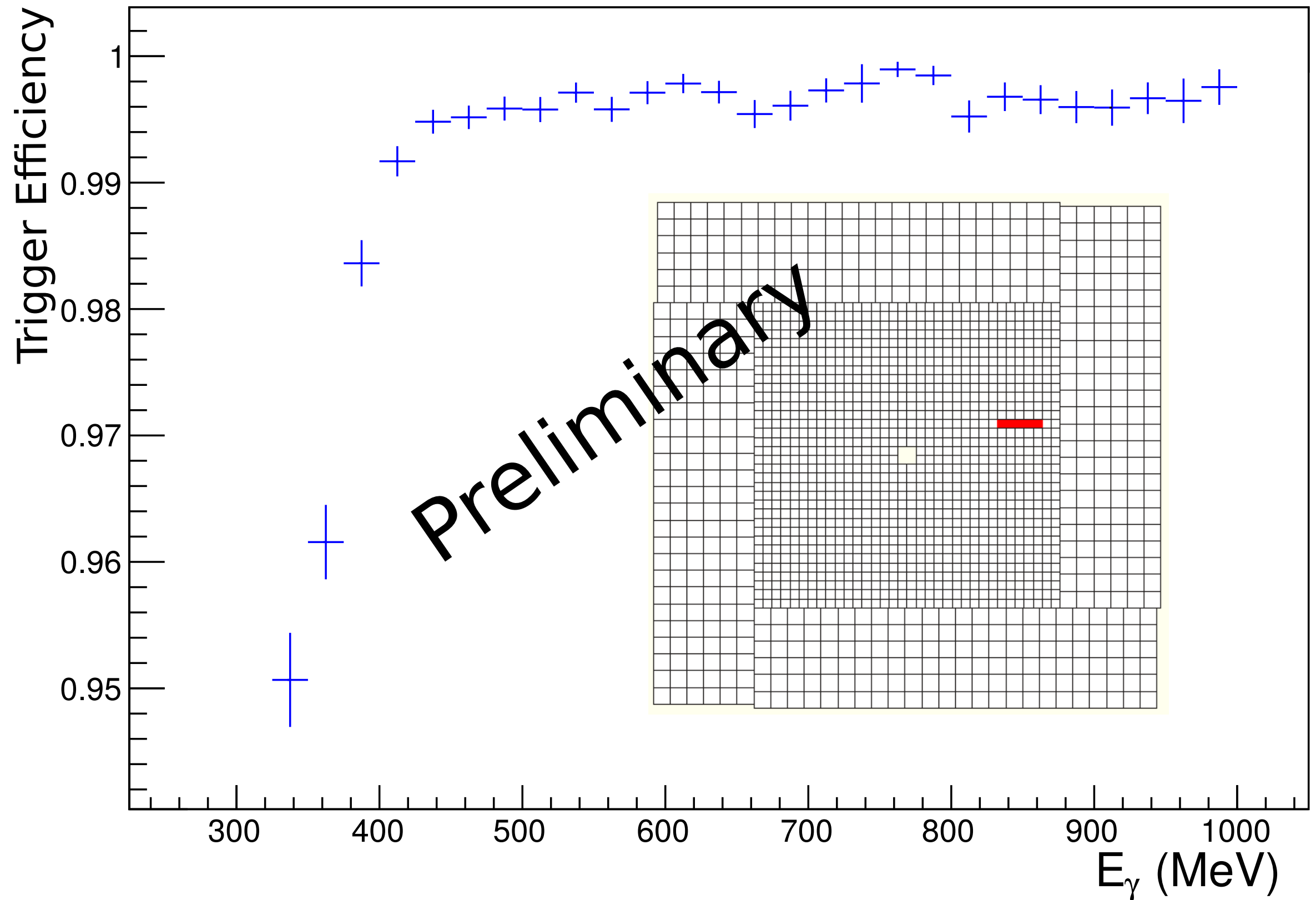
Energy vs scattering angle with preliminary calibration



Q^2 range covered



Preliminary analysis of HyCal efficiency



Plans for the next 3 days

Complete the 2.2 GeV data collection on Hydrogen

The full Q^2 range is essential for robust extraction of proton charge radius.

& a reference measurement on a 1um thin Carbon target.

We expect to have collected full statistics for 2 pass by Wed 6:00 AM.

End of run party on July 13th