

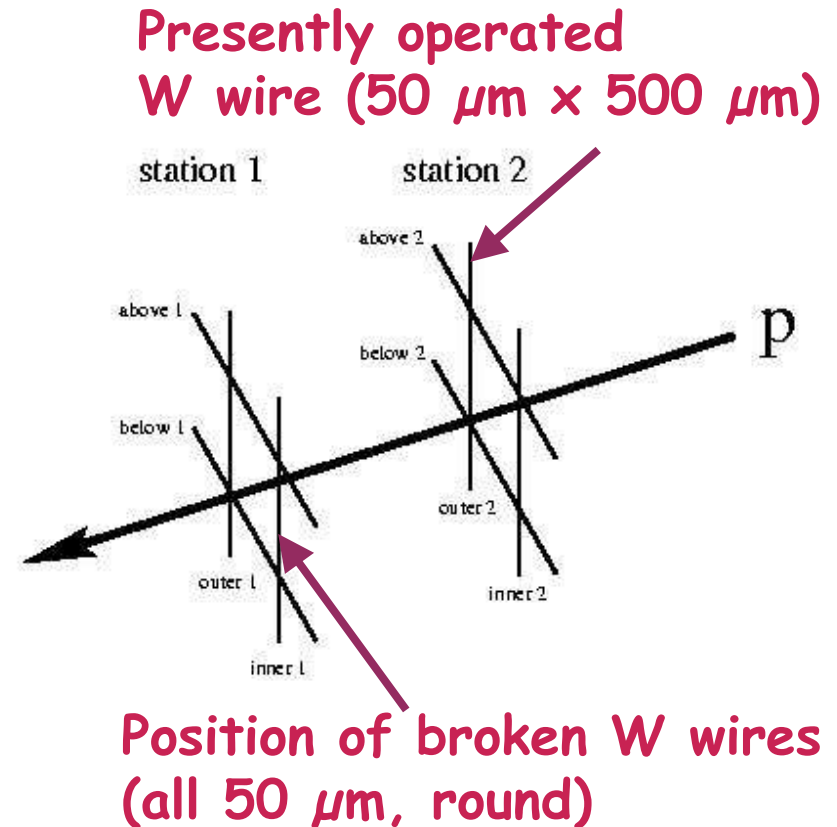
HERA-B

HERA coordination meeting
21 January, 2003
M. Medinnis

Target problems

A tungsten target was broken for the 3rd time on 16 January. Like breakage on 20 December, associated with beam motion.

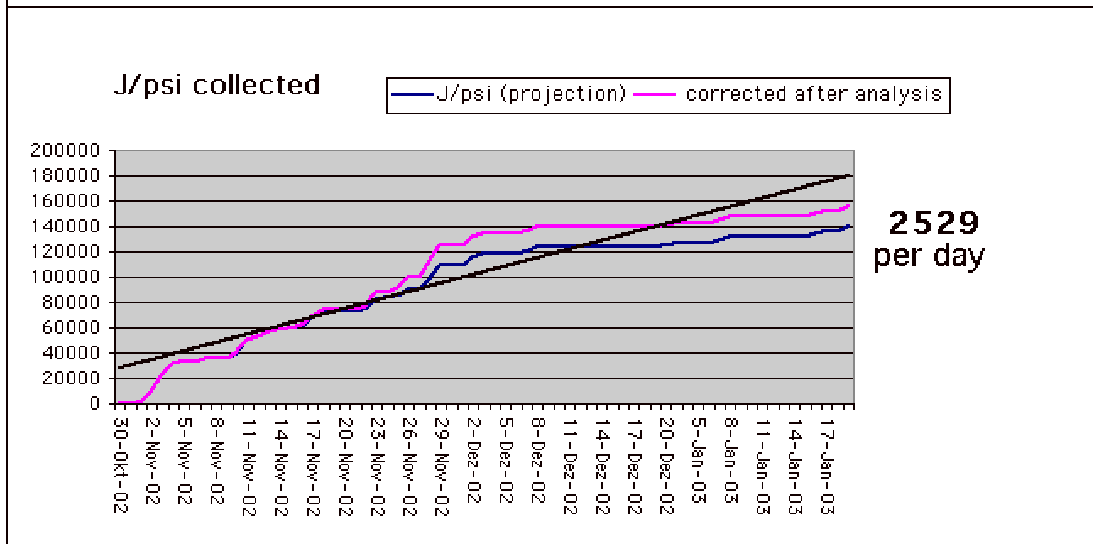
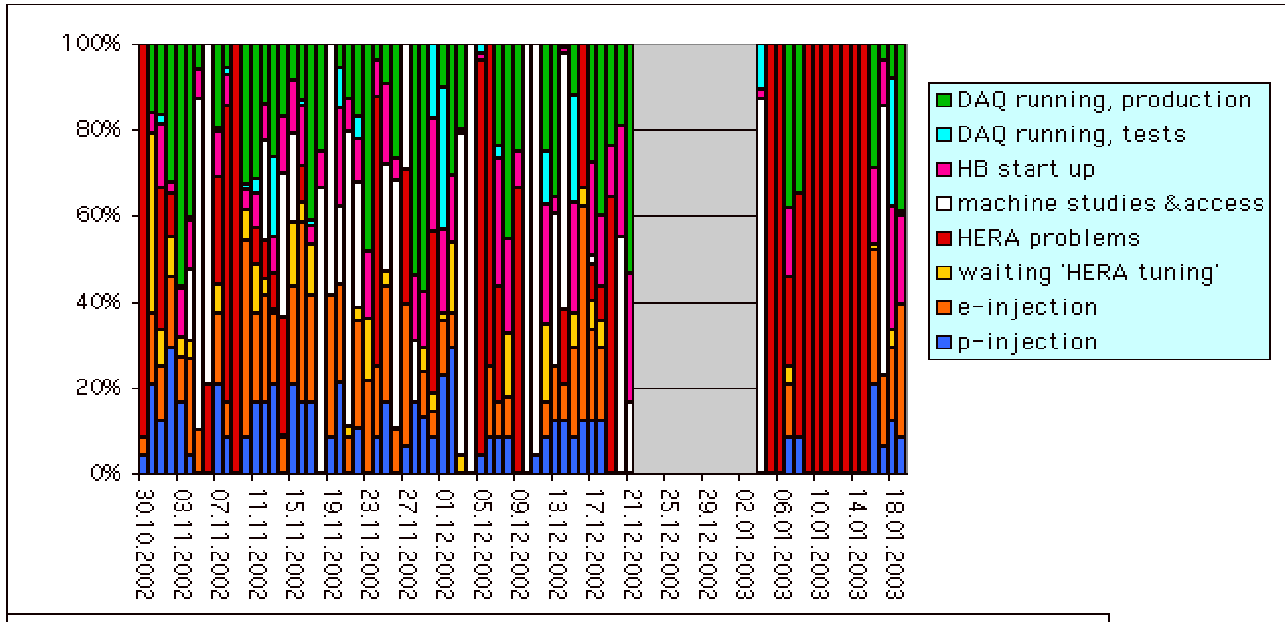
Presently running with a more robust W wire on the outer side of the beam - poorer rate stability.



Inner-1 will be replaced with a $50\ \mu\text{m} \times 500\ \mu\text{m}$ ribbon during the February access day (latest).

Run statistics

Not much running in January!



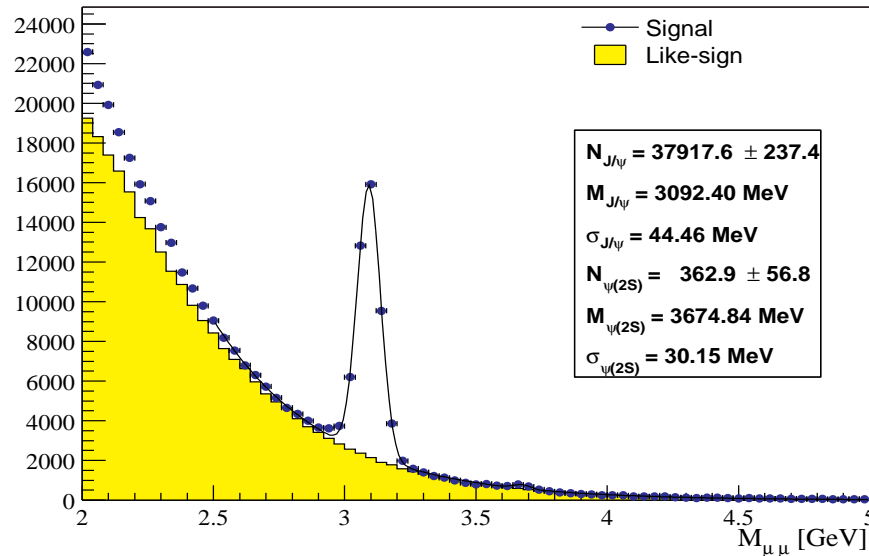
Total J/ψ sample: **150,000**
 From 2-wire runs: **70,000**
 (for comparison, the proposal called for $2 \cdot 10^6$)

Expected Precision (example)

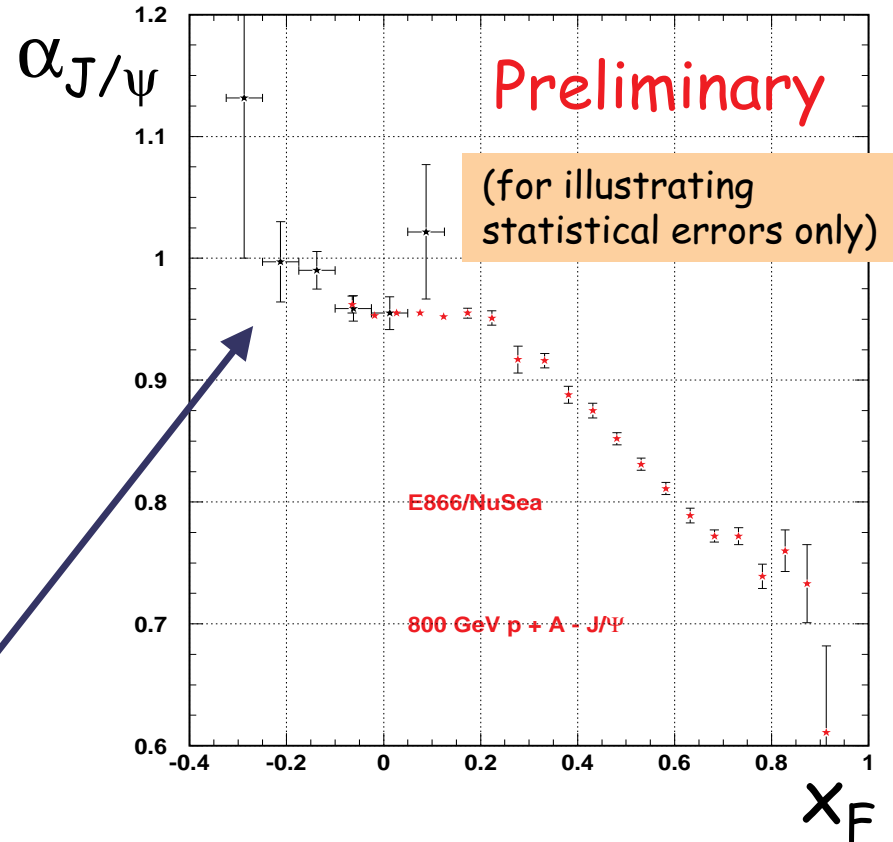
$$\sigma_A = \sigma_N A^\alpha$$

≈80% of $\mu\mu$ 2-wire sample

2002 Dimuon Sample * 2/3



With total sample (including $e+e^-$), expect precision $\approx 1.5x$ better



Marginally interesting!

Pending Request

We have requested a 6-week proton-only run before the coming shutdown.

- This would allow **8-9 fold increase in statistics** of the 2-wire sample (needed for A-dependence studies).
- Why not wait until after the shutdown?
 - HERA-B was (re-)approved for a run of limited duration in 2001 - assumed to end by December 2002.
 - Some collaborating institutes committed to HERA-B only for this period and planned to focus on other activities starting in 2003.
 - ⇒ Difficult to turn on again after shutdown.
- We would (of course) welcome any other scenario which allows a similar increase in statistics before the shutdown.