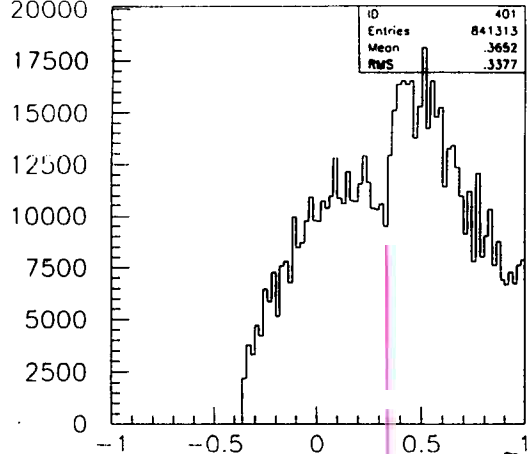
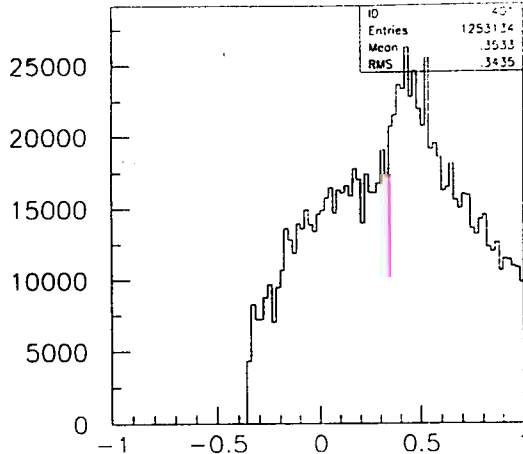


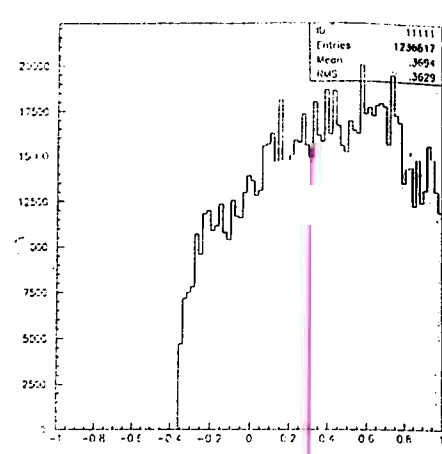
* edge of production target = -1mm



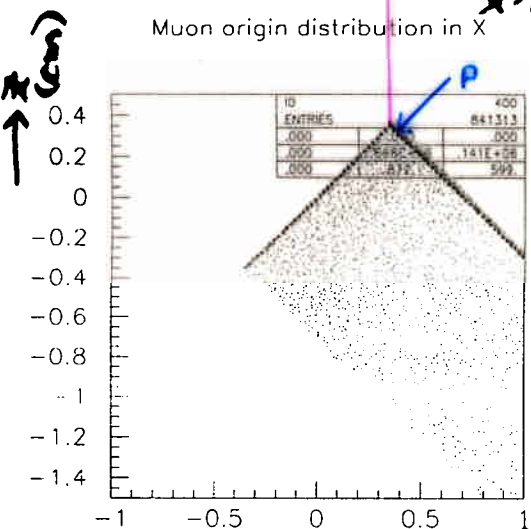
Muon origin distribution in X



Muon origin distribution in X

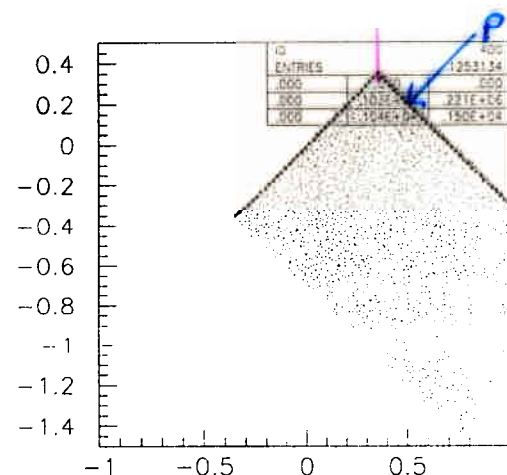


Muon origin distribution in X



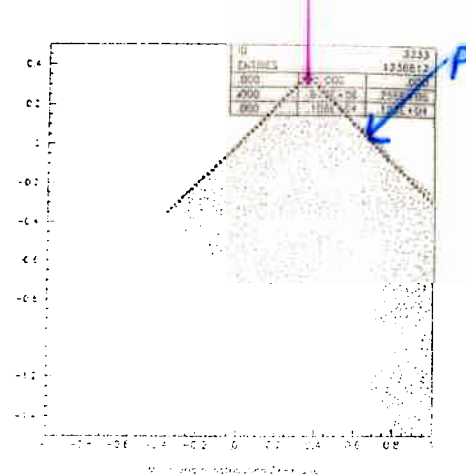
Muon origin distribution ZX-Plane

protons at
-0.5mm



Muon origin distribution ZX-Plane

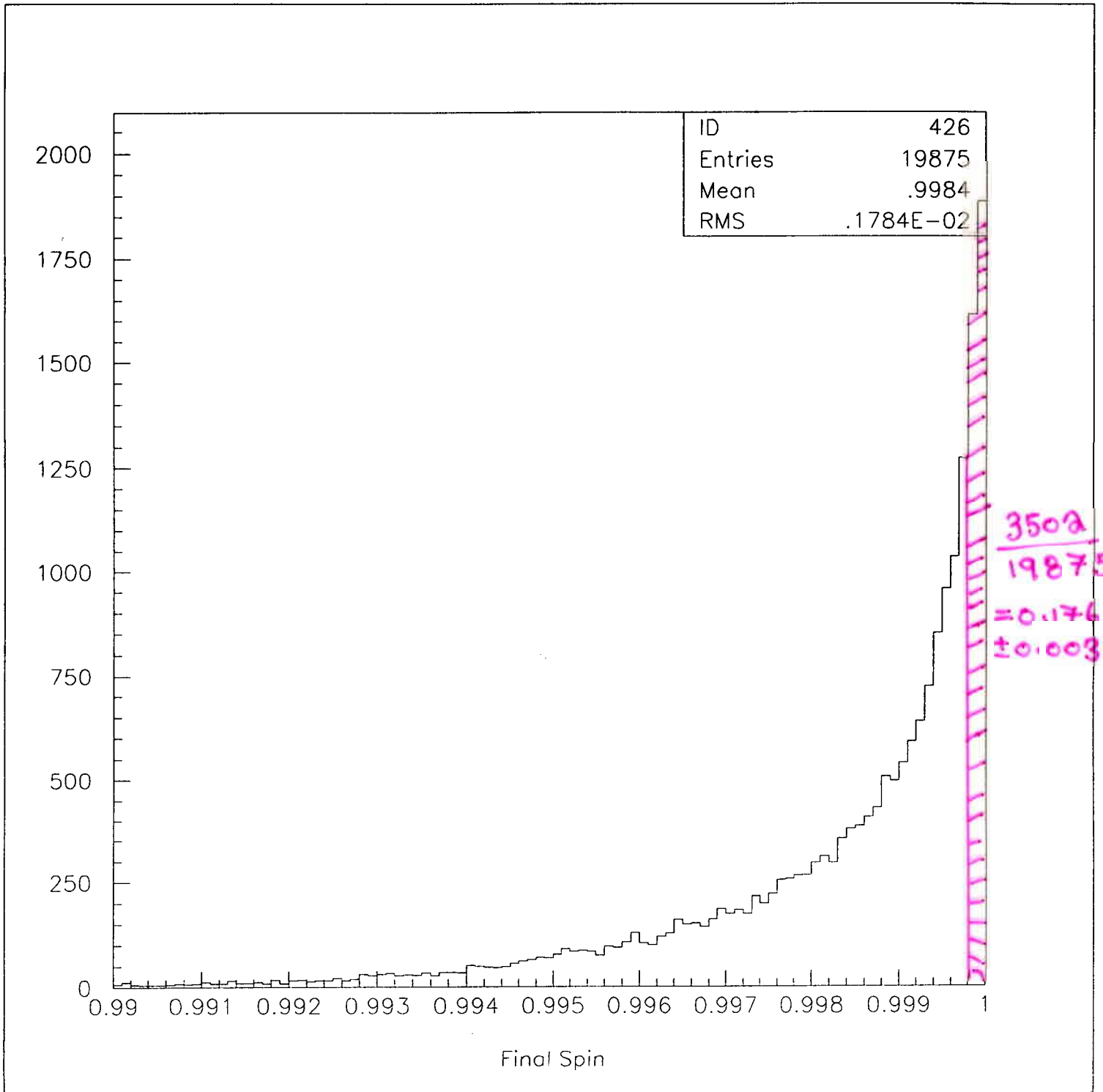
protons at
1.0mm



Muon origin distribution in X

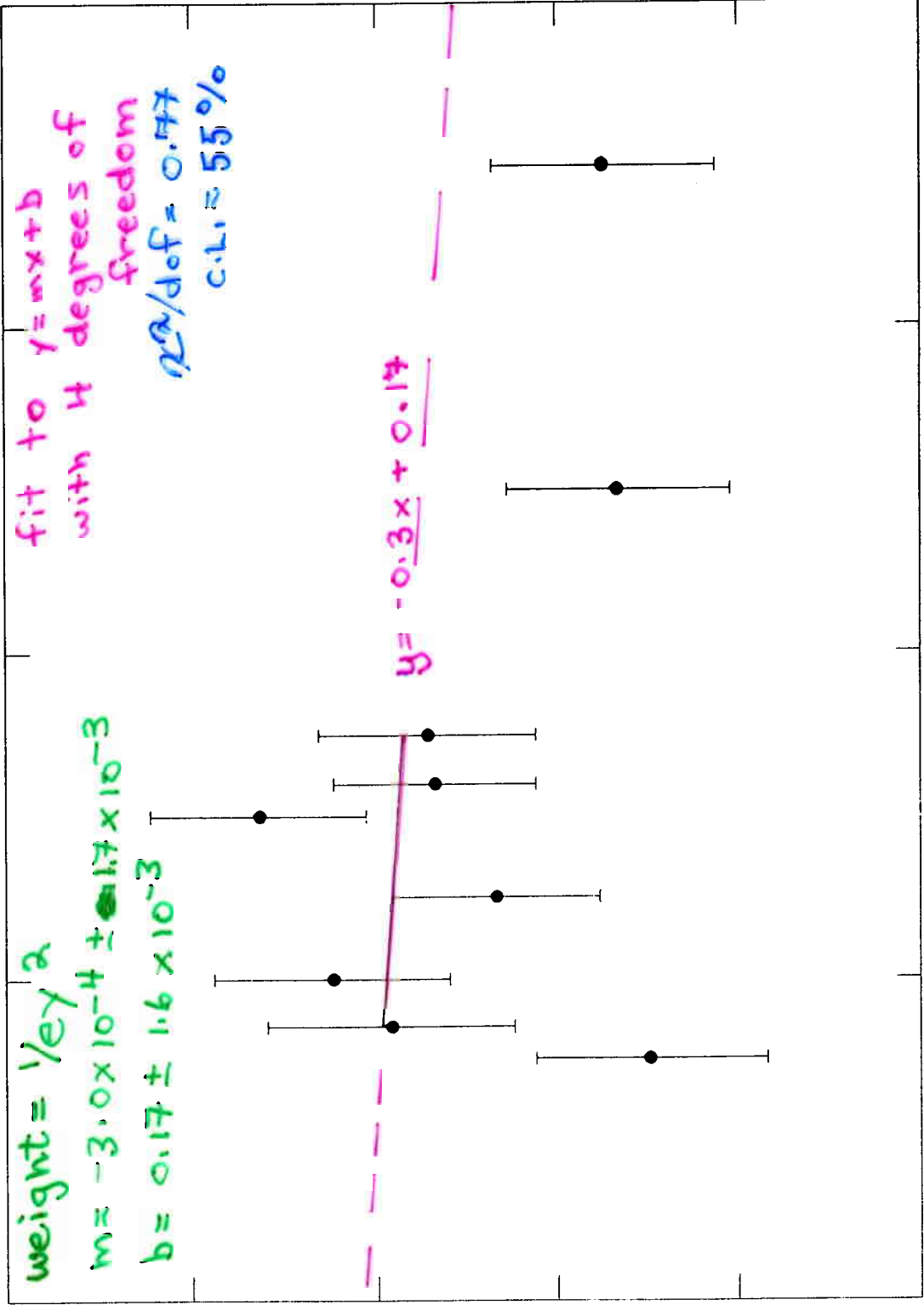
protons at
3.0mm

Where Muons Originate in T1



beam in the center of the solenoid

Spin Ratio from 0.9998 to 1.0000



weight = $1/\sigma^2$

$m = -3.0 \times 10^{-4} \pm 1.7 \times 10^{-3}$

$b = 0.17 \pm 1.6 \times 10^{-3}$

fit to $y = mx + b$
with 4 degrees of freedom

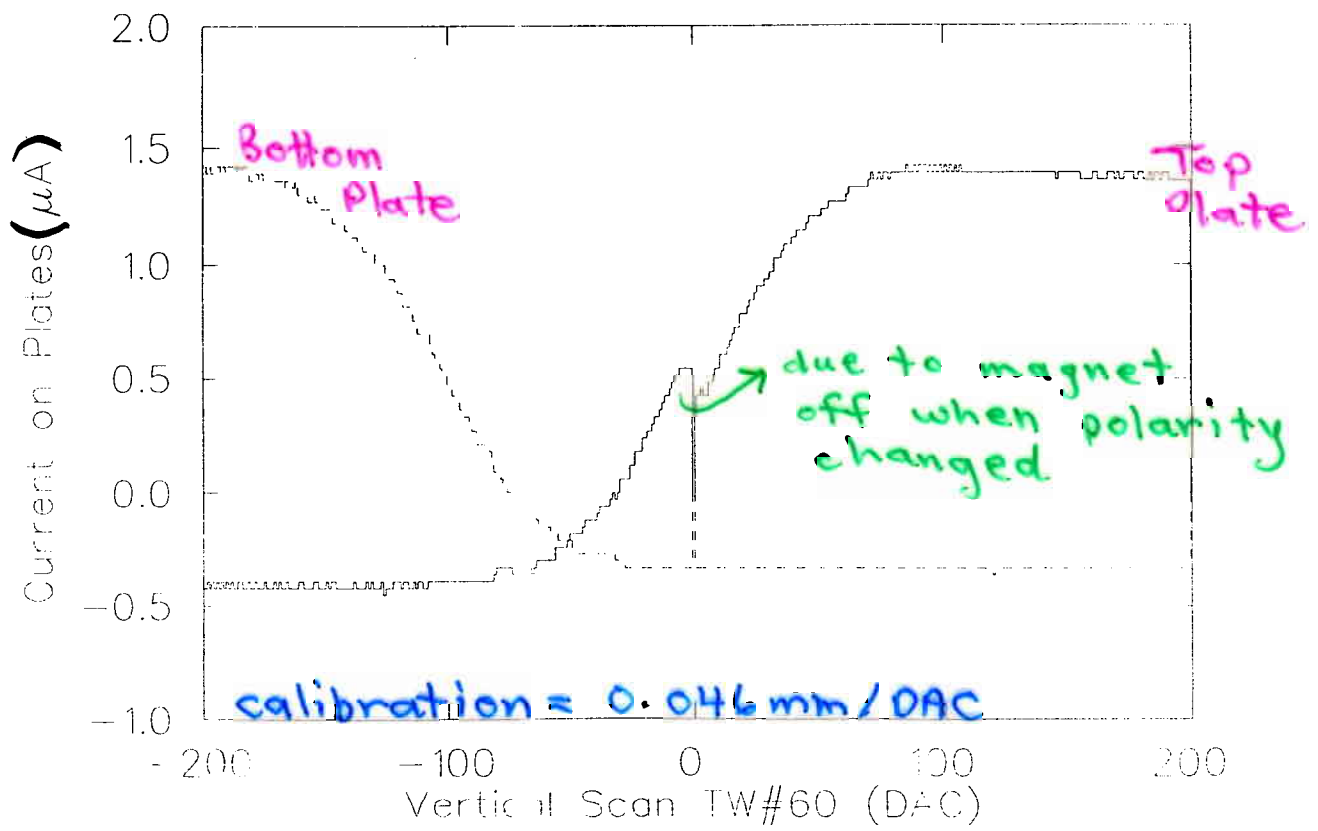
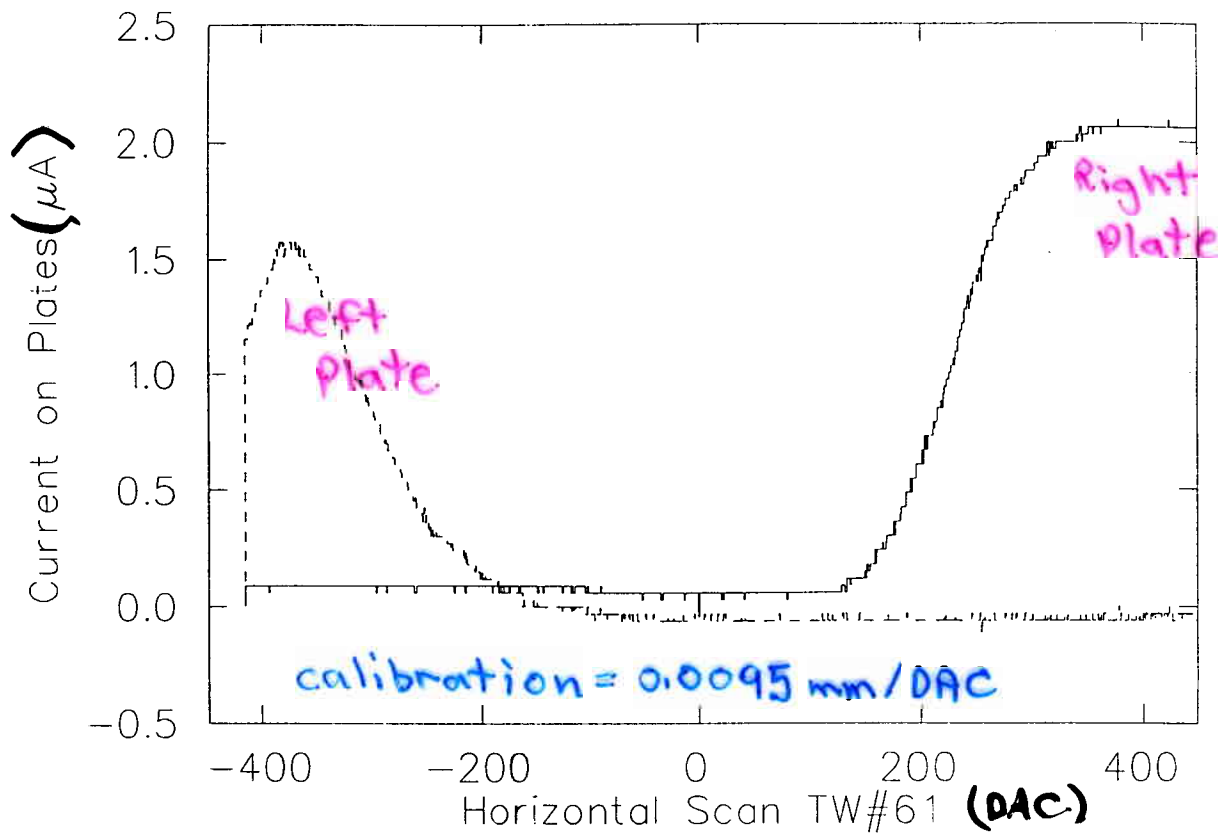
$\chi^2/\text{dof} = 0.77$

c.l. $\approx 55\%$

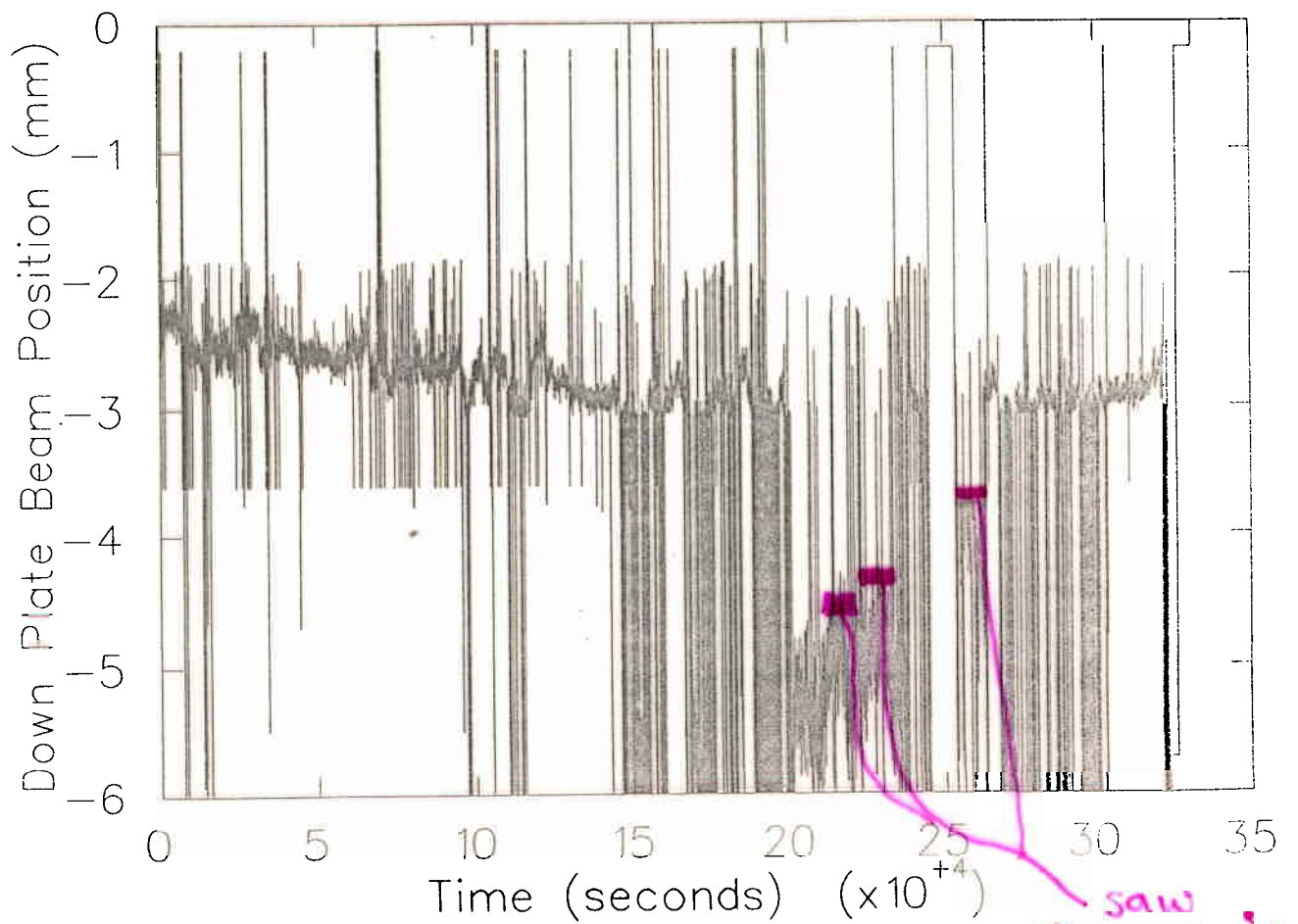
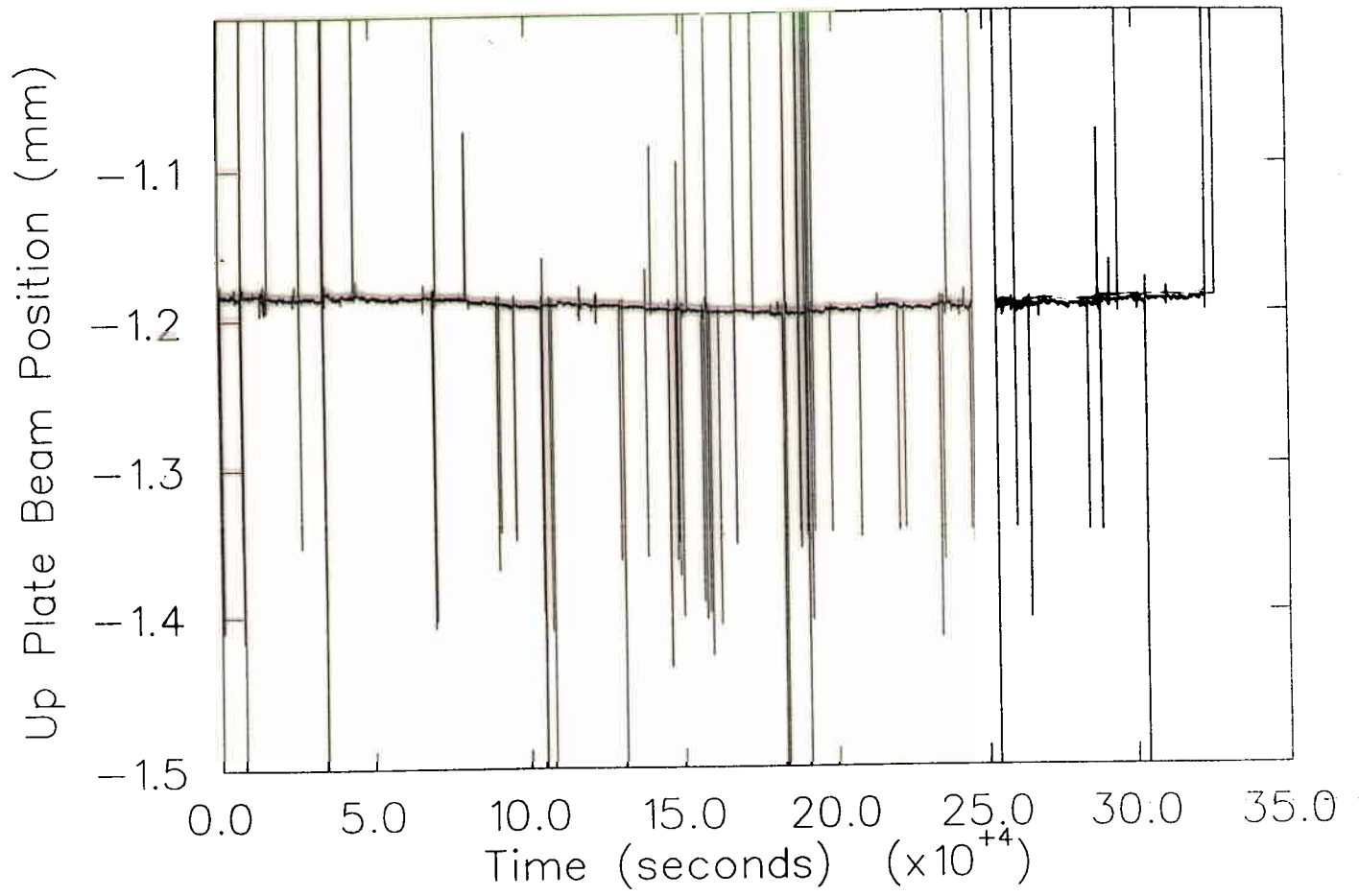
$y = -0.3x + 0.17$

Proton Beam Position (mm)

6



- done Aug 20/2000 with $2\mu\text{A}$
- stripper foil was Al not carbon! thus different beam spot



- data taken May 19, 20, 21, 22 (96 hours)

New T1 Protect Monitor?

- **current T1 protect monitor replaced ~ every 2 years due to breakage or reasons affecting its performance**
- **TRIUMF must have 2 spare T1 protect monitors on site and are built here by Dan Gray**
- **to change right/left plate separation distance would take less than 3 weeks and if charged money would only be shop costs (less than \$2000—mostly paying for ceramic spacers)**
- **Dan Gray also has spare 1AMT1 wire chamber**
- **all these items fit onto the target ladder as does the T1 carbon target**
- **remote handling estimates minimum 4 days to replace t1 target not including moving blocks, etc , could replace T1 protect at same time and add 3-4 days for alignment**