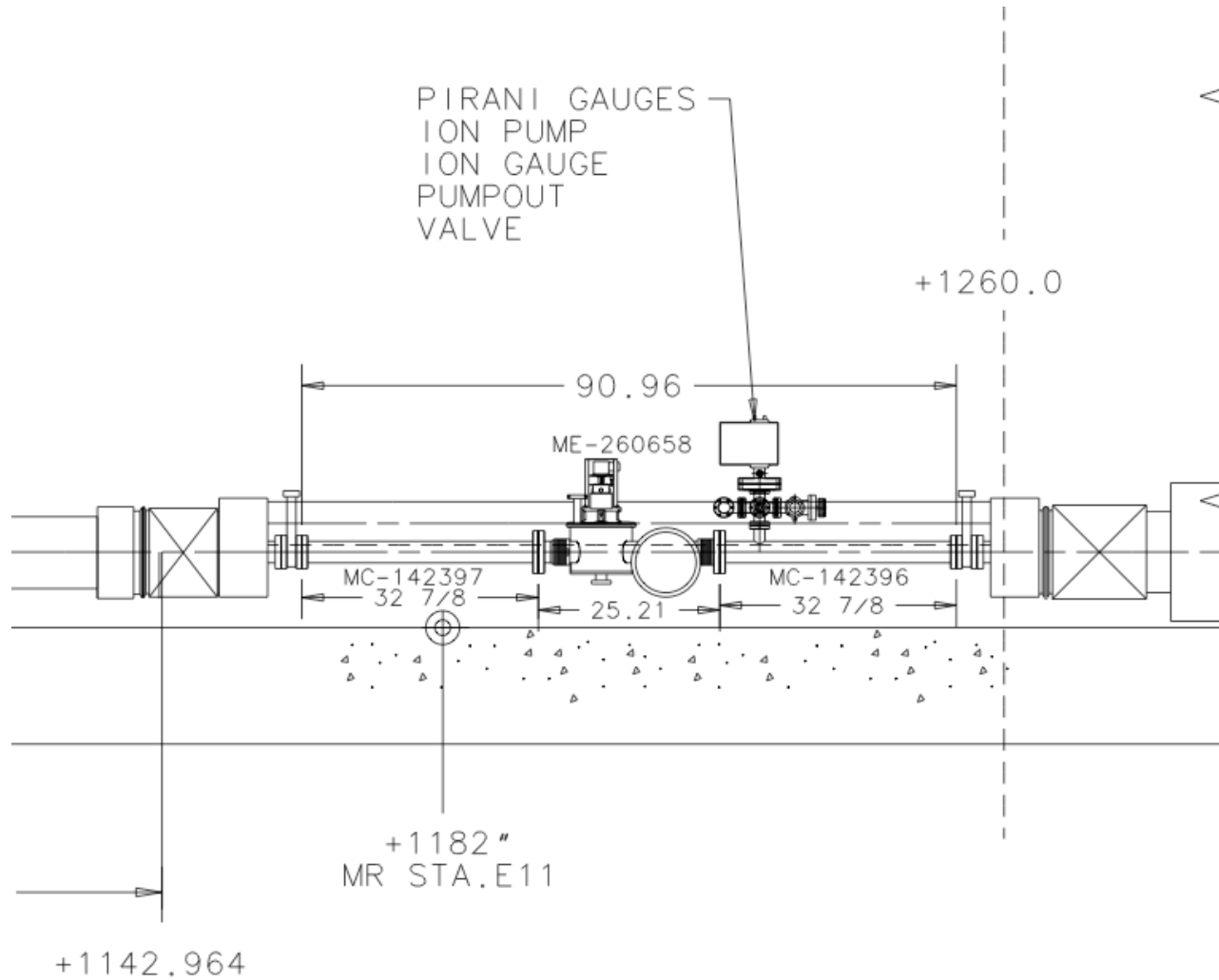


# Flying Wires For Crystal Collimation

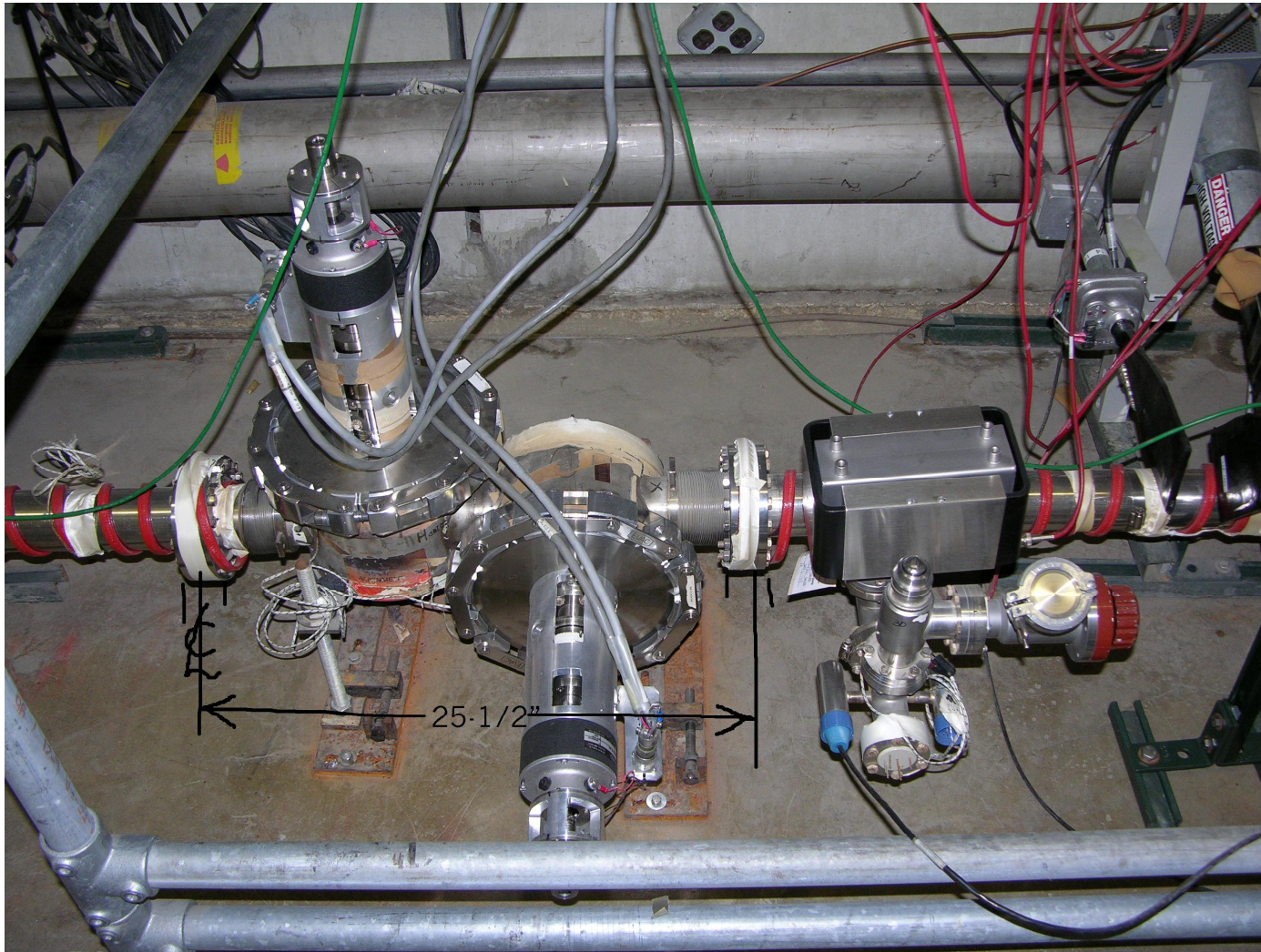
Jim Zagel

8/7/2008

# TFW Tunnel Location

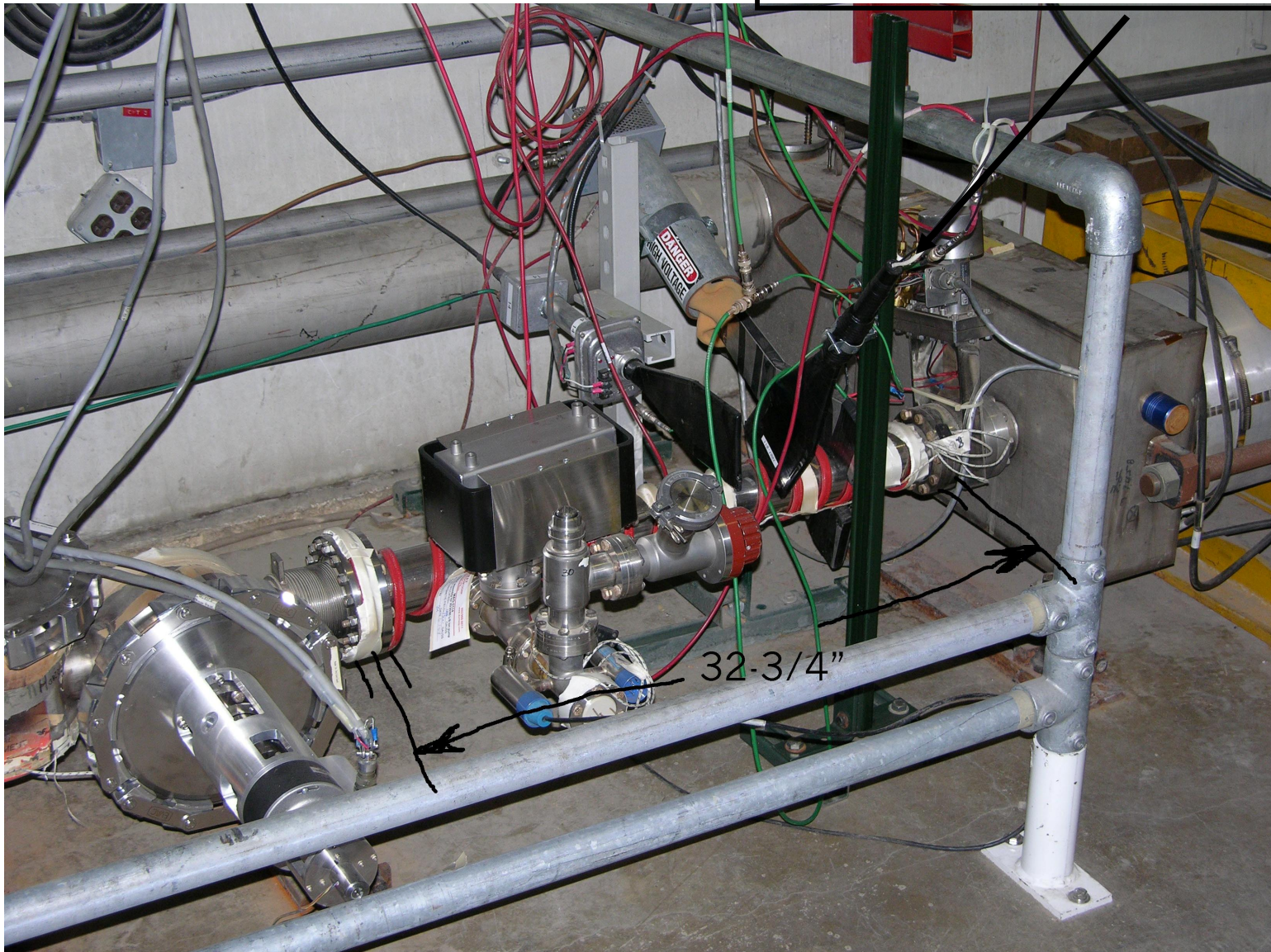


# E-11 Flying Wire



# E-11 Flying Wire

New High Gain Paddle



# Beam Location at E-11

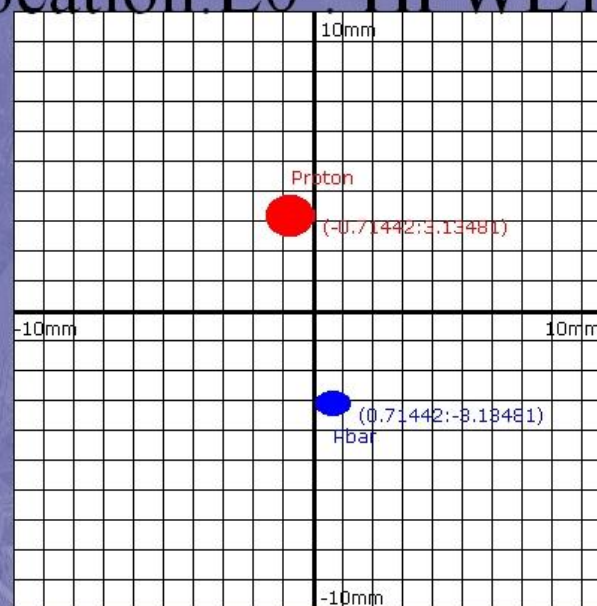
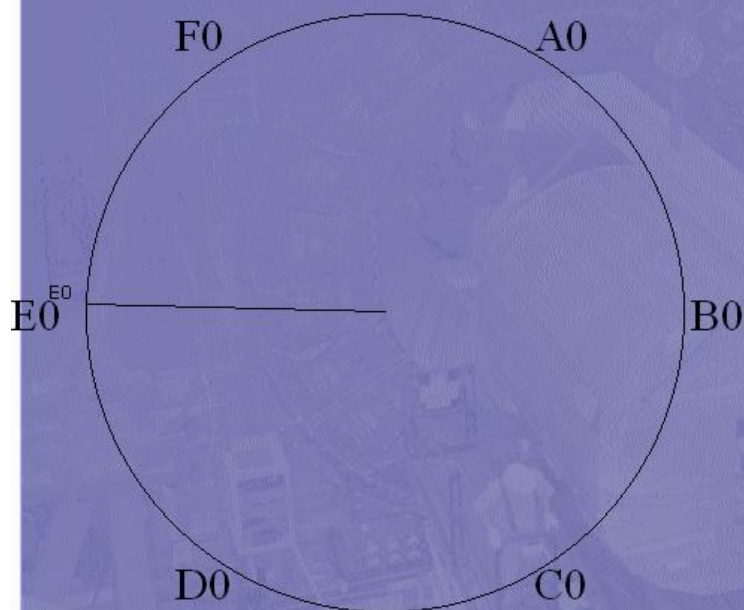
Today is Tuesday, November 27, 2007.



X,Y	ANGLE	DISTANCE	LOCATION
48,494	3.171287	3171.287	E0

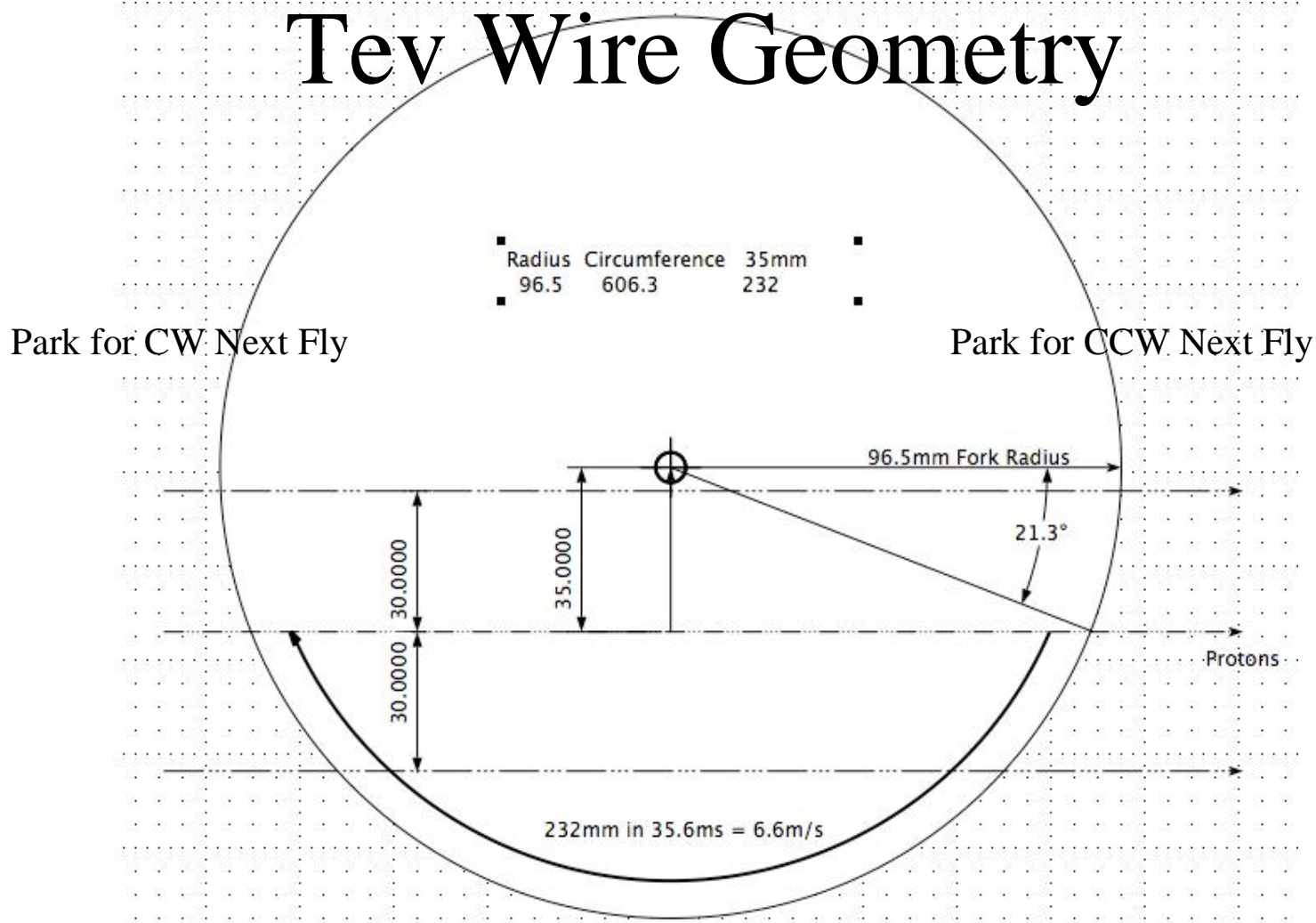
Run II Step 16 Collisions

Location: E0 : HFWE11

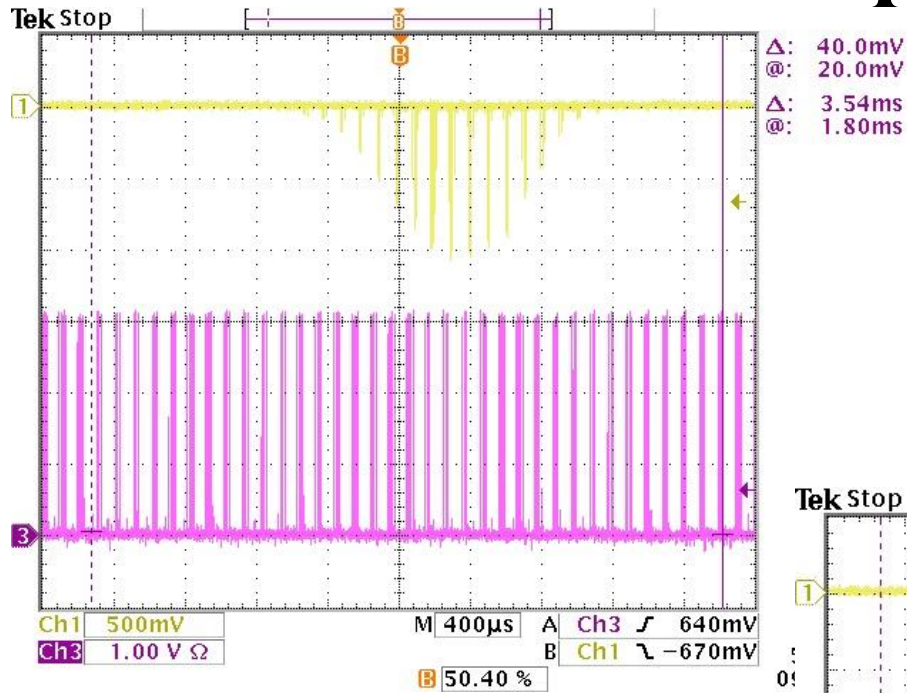


Proton Emittance	Pbar Emittance	Proton dP/P	Pbar dP/P	Scale
18	7	0.0005	0.0005	20

# Tev Wire Geometry

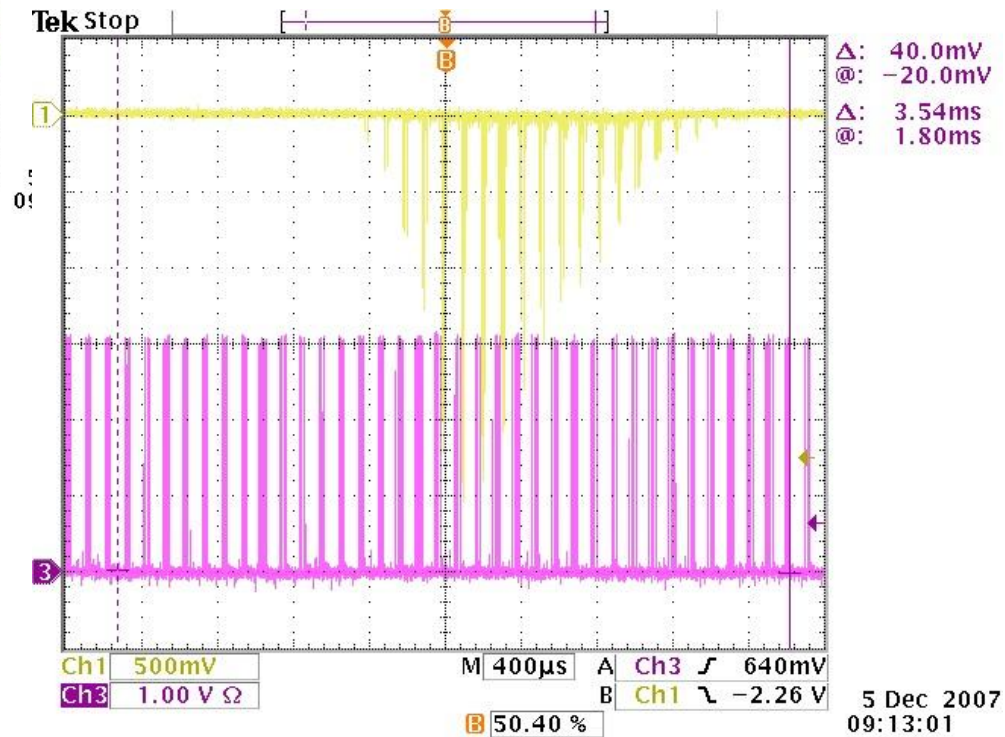


# HG Paddle Losses



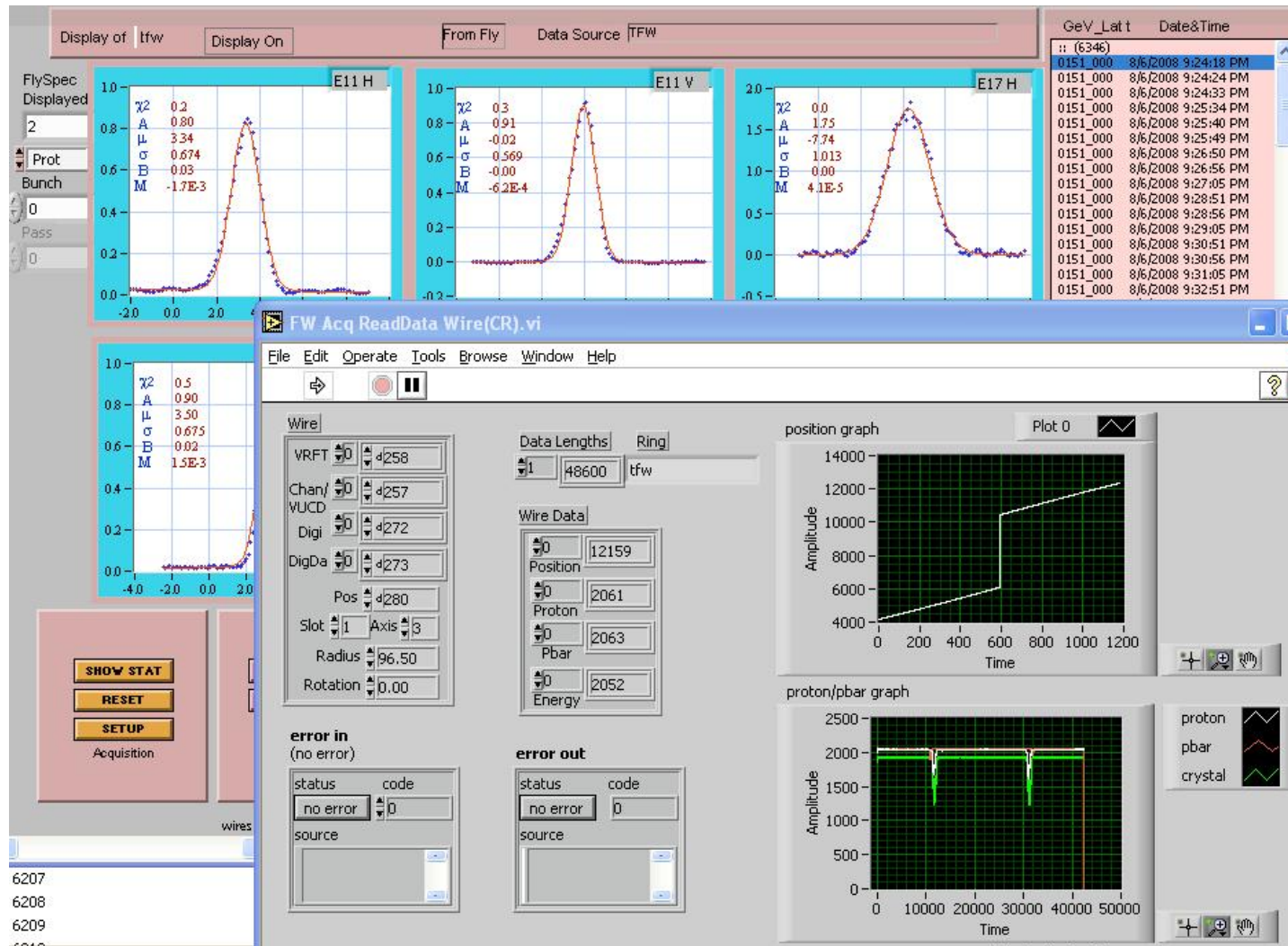
700 Volts

900 Volts



5 Dec 2007  
09:13:01

# Normal Fly Raw Data Read

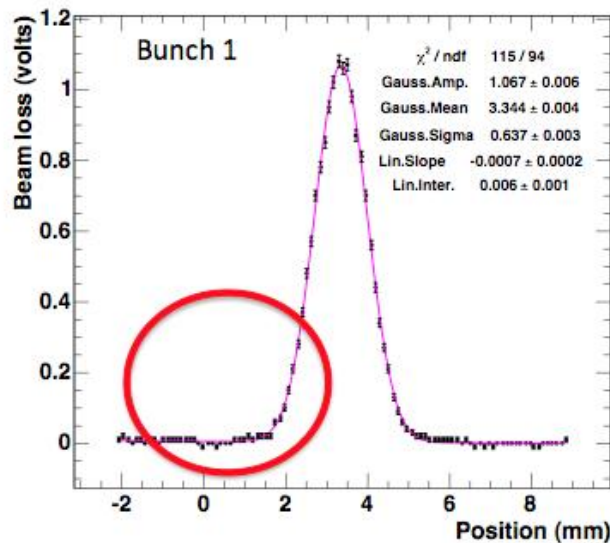




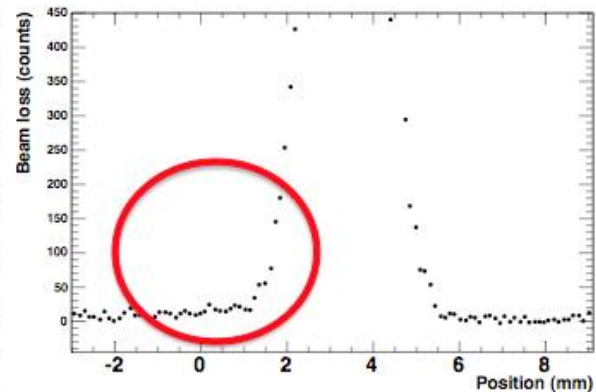
# Where to look

## Diffusion Rate of the Beam Halo with Flying Wire

E11 Horizontal  
(low-gain paddle)

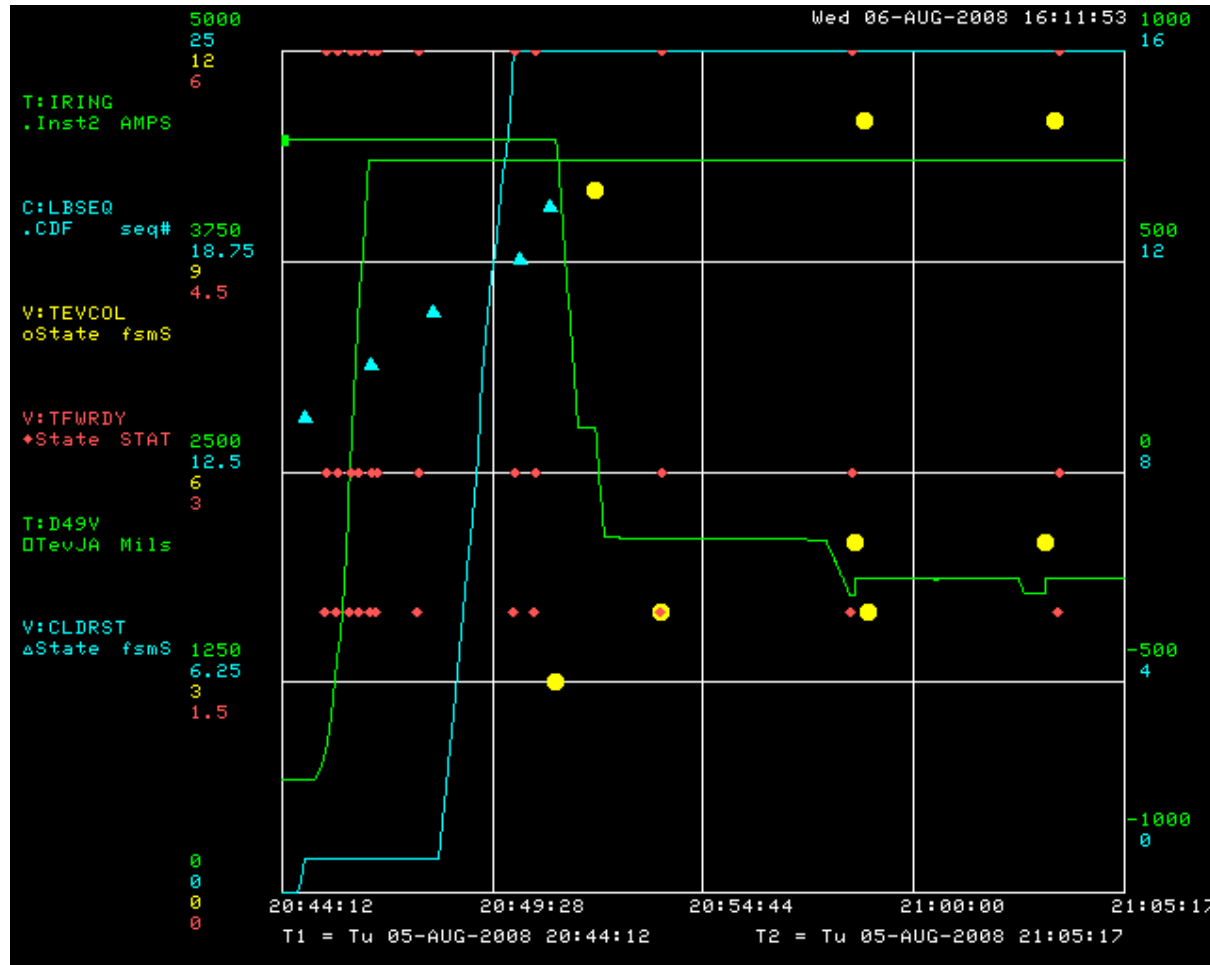


E11 Horizontal  
(high-gain paddle)



- Calibrate data from high-gain paddle (E11H) against that from low-gain paddle
- Study the growth rate of the beam halo using data from high-gain paddle

# Investigating Losses During Scraping

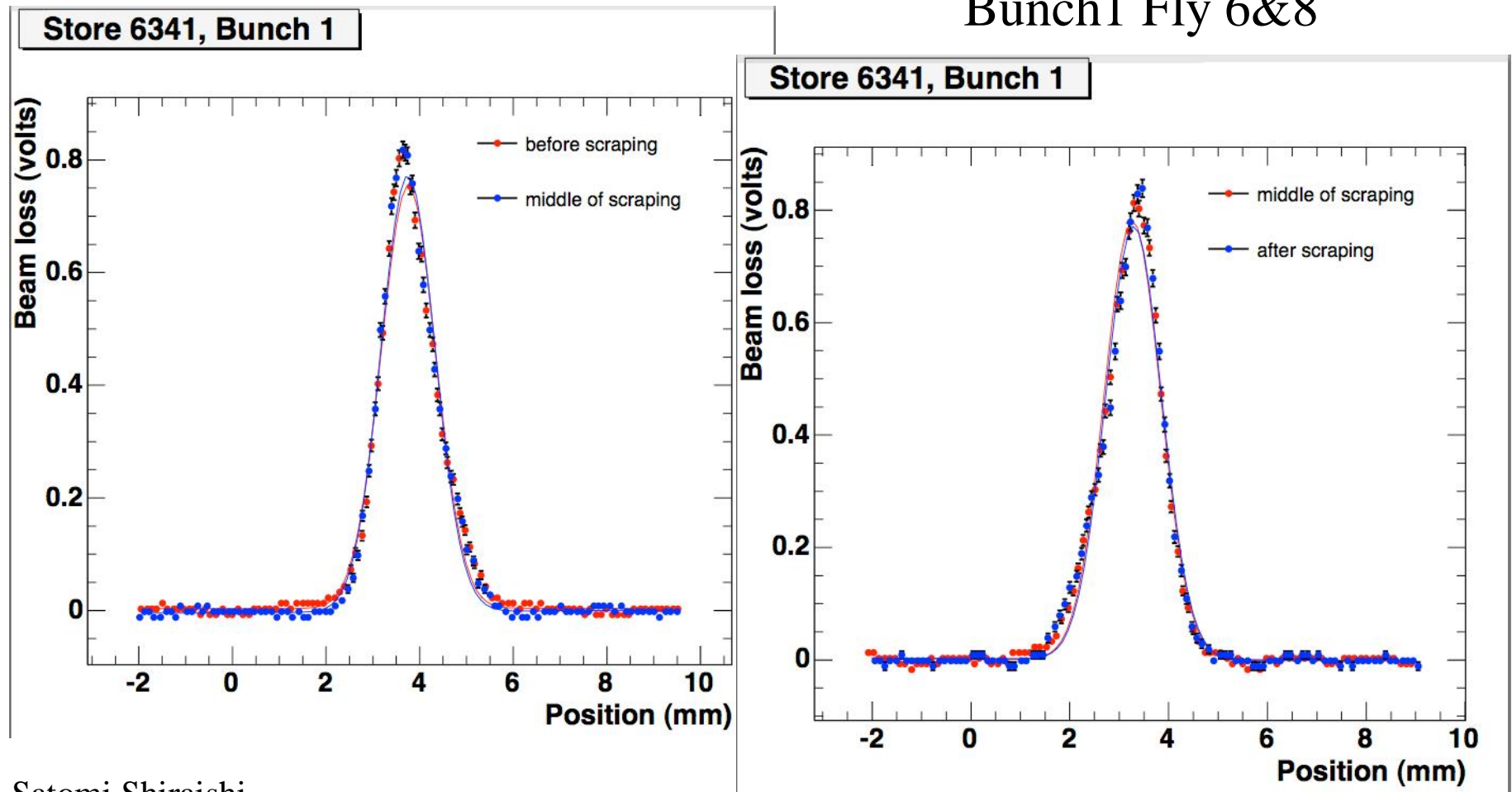


Supplied by Jerry Annala

# Scraping Losses

Store6341 E11H bunch1 Fly 5&7

Bunch1 Fly 6&8



Satomi Shiraishi

# Conclusion

- D0 Crawling Wire will NOT be installed.
- TEV Flying Wires will be used in the normal mode!
- Losses Monitored with HG Paddle