#### Total charges at upstream end 140000 120000 100000 80000 Number 60000 40000 20000 0 1.2 0.6 1.0 0.8 1.4 1.6 0.4 X offset of original beam (cm) Net charges at downstream end Number -5000 Low Z inner radius -6000 -7000 Number -8000 -9000 -10000

-11000

0.4

0.6

0.8

1.0

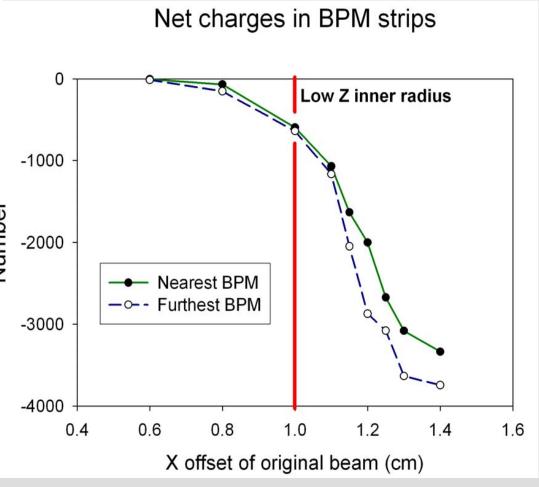
X offset of original beam (cm)

1.2

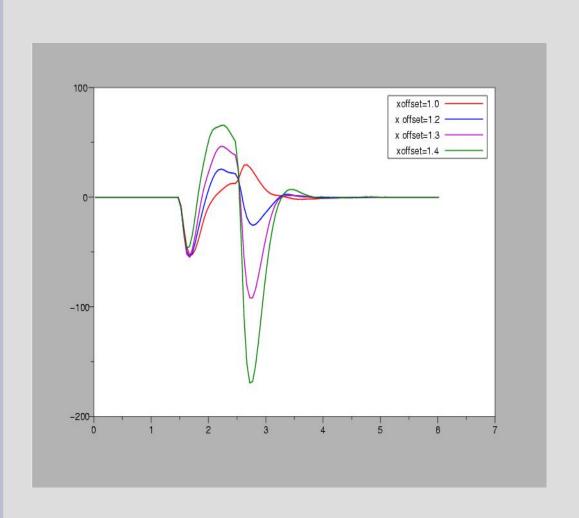
1.4

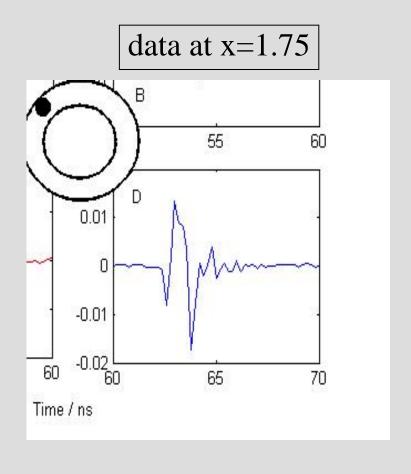
1.6

### Scanning beam across lowZ inner radius

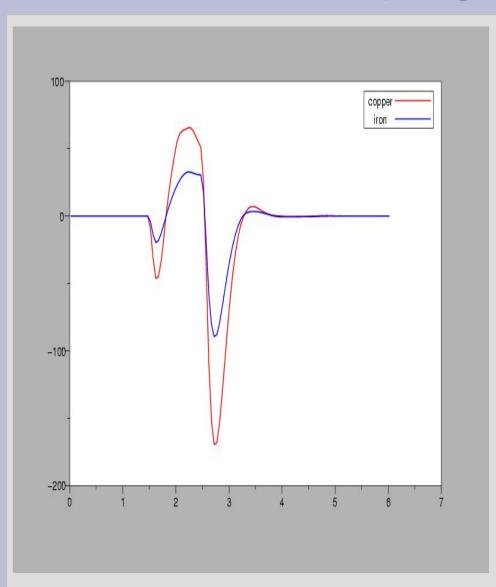


# BPM signal/noise with x\_offset scan (impacting electrons ignored)





## Are the strips made of Copper or Steel?



- 5000 input electrons
- xoffset=4.0

### **CST Particle Studio**

- Available mid-late Nov
- •£1439 for one year license