

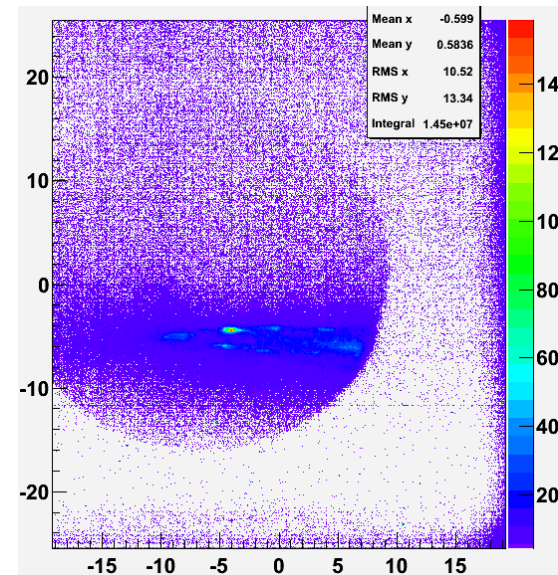
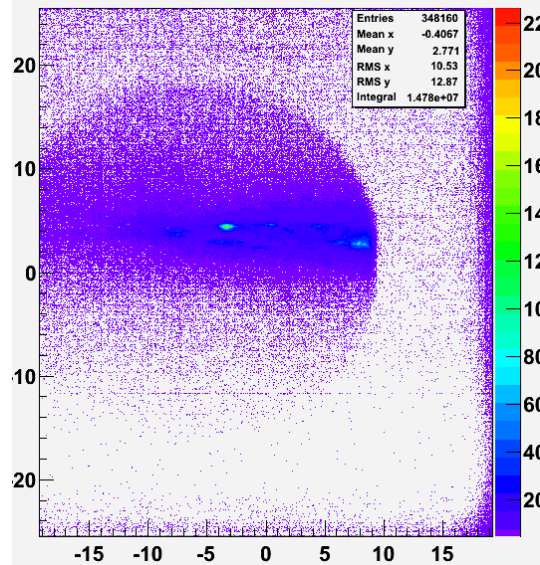
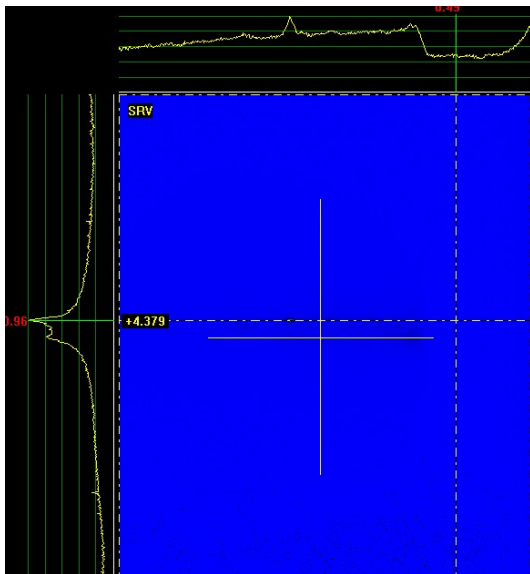
BOOSTER DARK CURRENT

Yevgeniy Ivanisenko
PITZ Physics Seminar,
2012-09-27

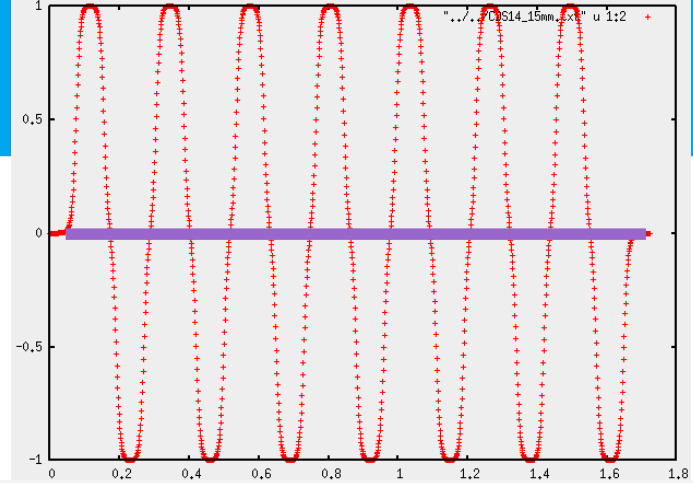
> Using steerer High1.STA1 (=LowSt6)

- Dark current was focused using High1.Q1 and High1.Q3 to a characteristic shape with a hot spot on it.
- The position of the hot spot was measured for different steerer currents

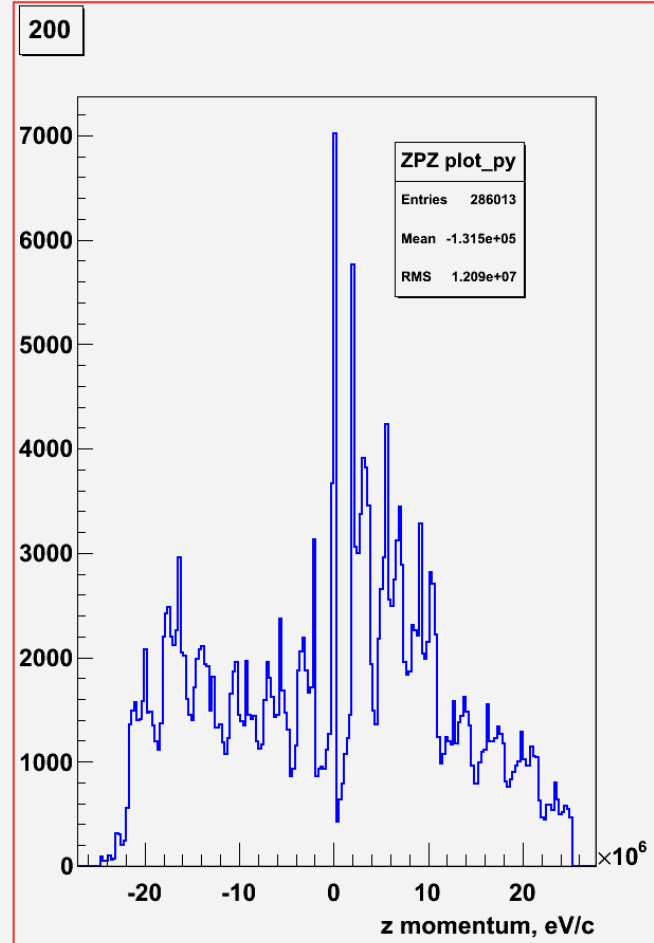
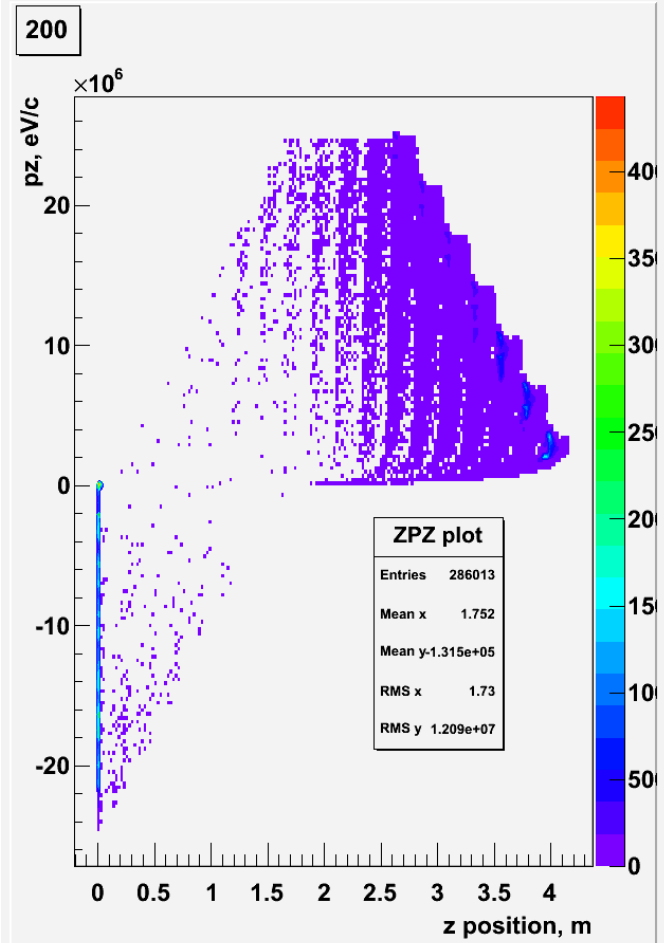
Momentum(hotspot)=22.57 MeV/c @ 6.6 MW



> DC Spectrum



Combined phases
-90 to 90 deg



> To use the field probes as e-detectors

- Apply voltage
- The current is proportional to the electron density

