

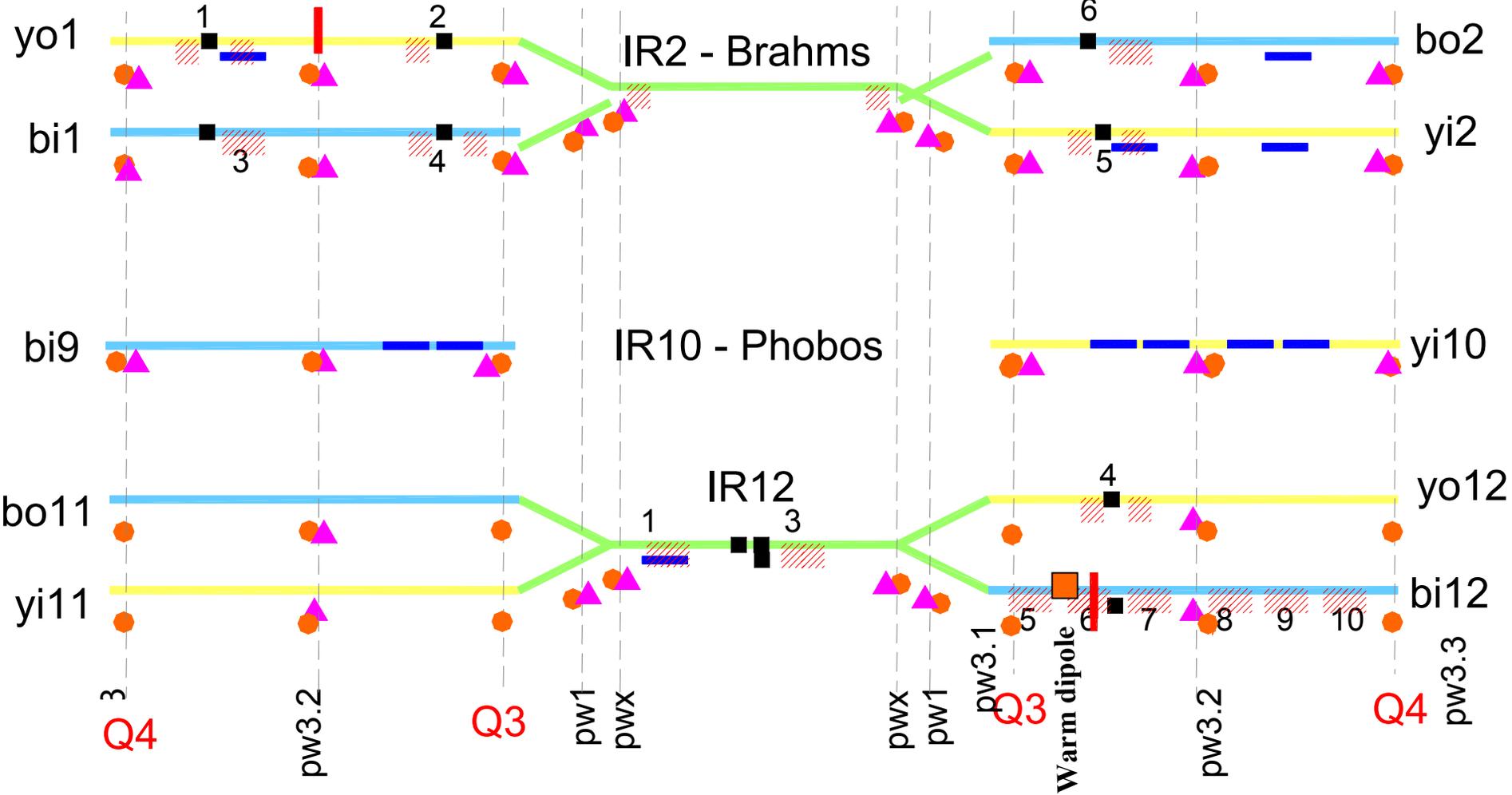
# Beam Scraping at Bi12 (1/21/04)

- The experiment took place between 2:45-6:00AM.
- Johannes added a sequencer for warm dipole but we did not use it.
- The warm dipole strengths was increased to +459A(50 mm), see loss around bi12 (the BLM added down stream of warm dipole. The life time is worse with this setting. If reduce the bump to 46mm, the life time is much better. But the question is how "local" it is?
- BLM at warm dipole showed highest counts but it is next to the beam pipe.
- BLM at Q4 shows larger counts than the ones at polarimeter (upstream). Add bump -8 mm at Q5 did not reduce the BLM reading there.
- The pin diode at bi12 works.
- The pressure rise observed at warm dipole is around  $10^{-11}$ ; but the vacuum gauge is 5 meters away.
- Increase magnet current to 550A, bending angle from 1.38mrad to 1.52mrad. It is ready for use.
- Change beta\* to 20 m could reduce the beta max further around Q3.

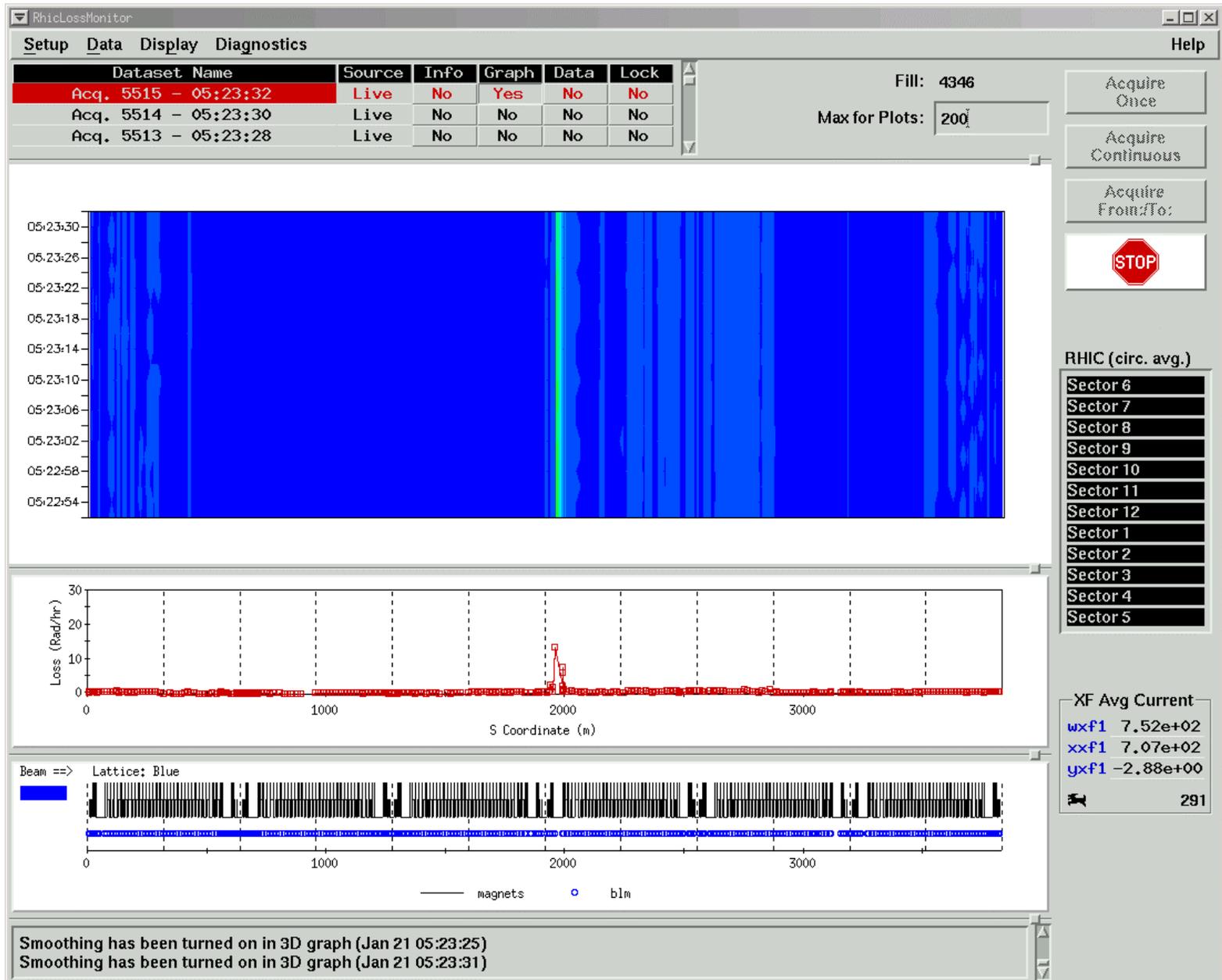
RHIC Electron Detector Solenoid & NEG Pipe Locations  
23 September 2003

Numbers designate power supply

- NEG Pipe
- Electron Detector
- Solenoid
- Fast CCG
- IP/TSP/CCG
- Pin Diode



# Beam Loss Is Local At IP 12



# How Local It Is?

## Why no counts at Q4?

