

# Near Detector Readiness for Physics Commissioning

- **Plane commissioning**
  - Procedure
  - Schedule
- **Other issues**

# Plane Commissioning

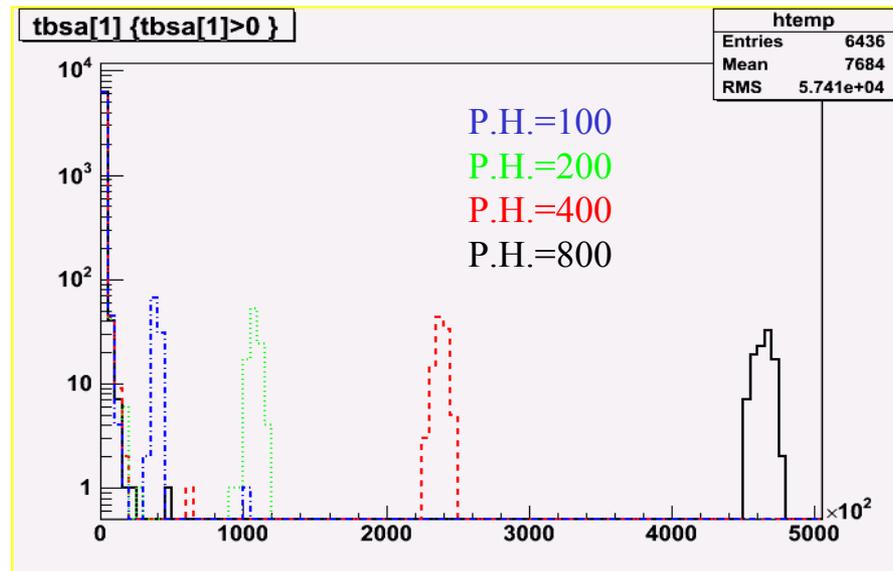
- Planes are installed under 2.5
  - 5/day in spectrometer
  - 2/day in calorimeter
- Planes 281-266 are installed, lightleak checked
  - Resume today?

# Commissioning Procedure

- Hook up plane to readout
  - Crew of 3-4
- Light leak check before plane is buried
  - Minimum requirement before continuing
  - Stand-alone light leak checker
- Electronics checkout will stay ahead of plane commissioning
- Use DAQ to checkout new planes
  - Overall health, look for cosmics, ADC/PE, PE/MIP
  - Light Injection
  - Won't begin until ~4/26.

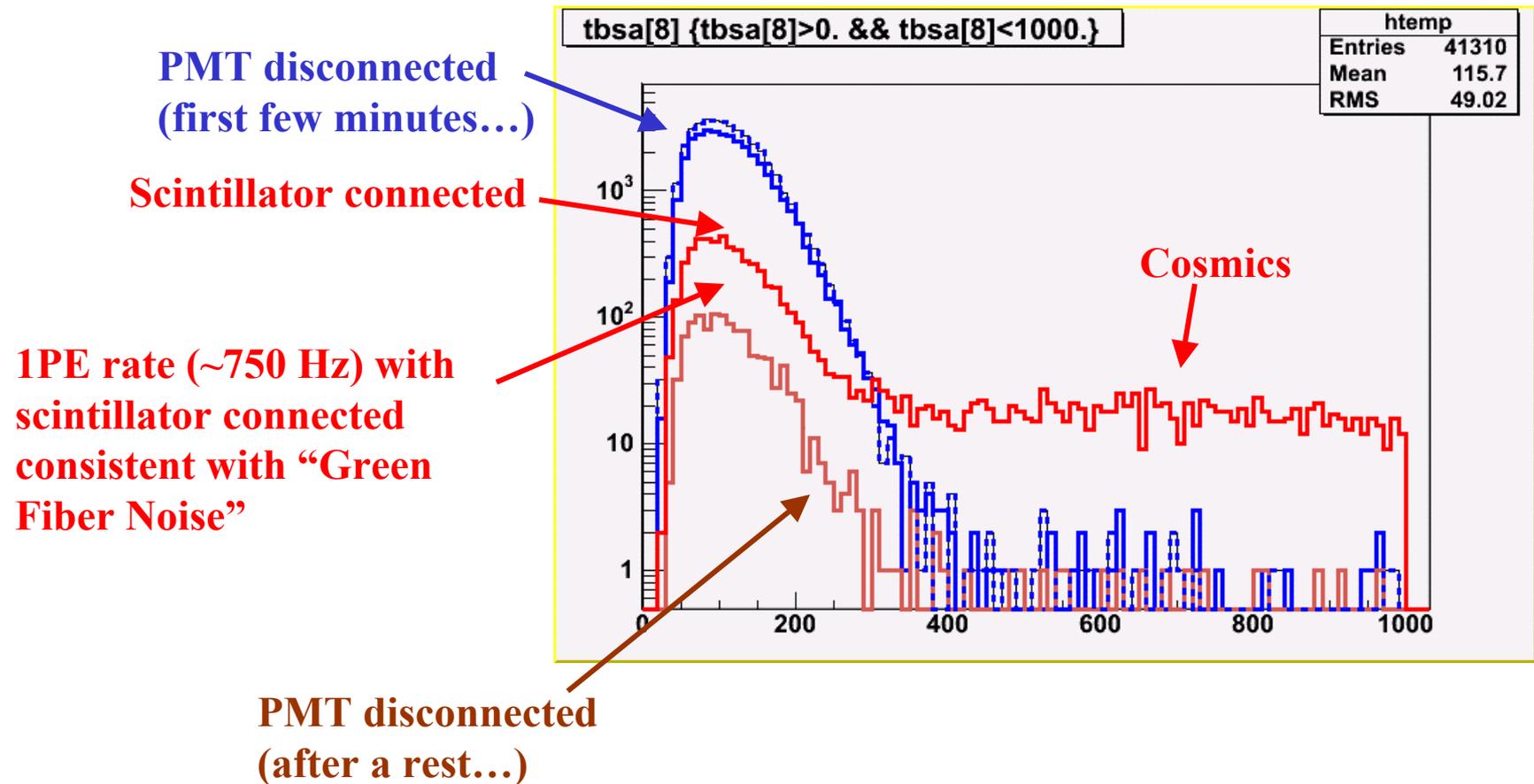
# Experience from CalDet/New Muon

## PMT ADC Sums for LI Events



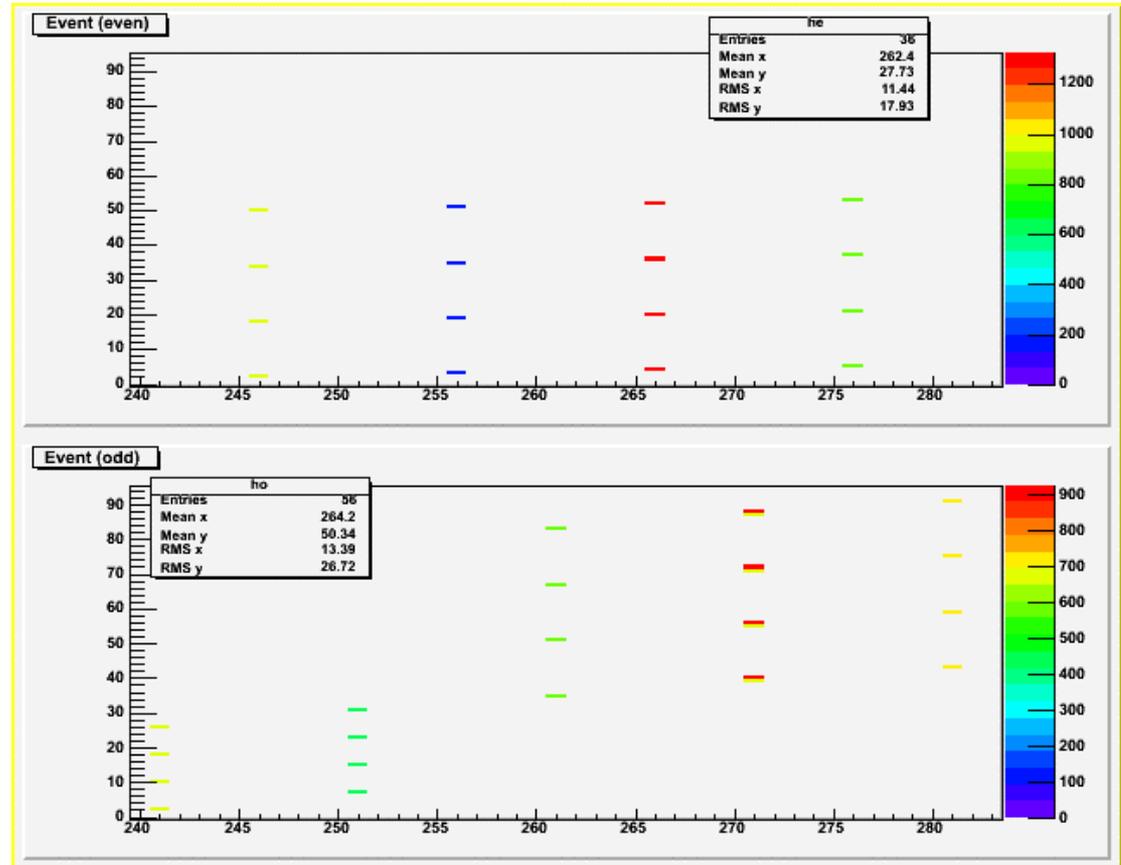
Light Injection  $\Sigma_{adc}$  (1PMT)

# Relatively detailed studies already conducted at New Muon



# Cosmics

Seen in 9 plane system at New Muon (no tracking done yet due to MUX)



# Schedule

- Current schedule has plane installation complete in October
  - On schedule so far
- Magnet coil installation in November
- “Detector Readiness”:
  - All planes will have been commissioned through DAQ
  - Cosmics readout with entire detector enabled
  - Spill mode tested
  - Magnet installed/commissioned.

# Other Issues

- **Reconstruction Software**
  - Studies are advancing on MC
  - Slicing/tracking
- **Calibrations**
  - Initial calibration are part of commissioning.
  - Experts at Fermilab through August.