Operations Report

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June 24, 2004

CDF Weekly Meeting

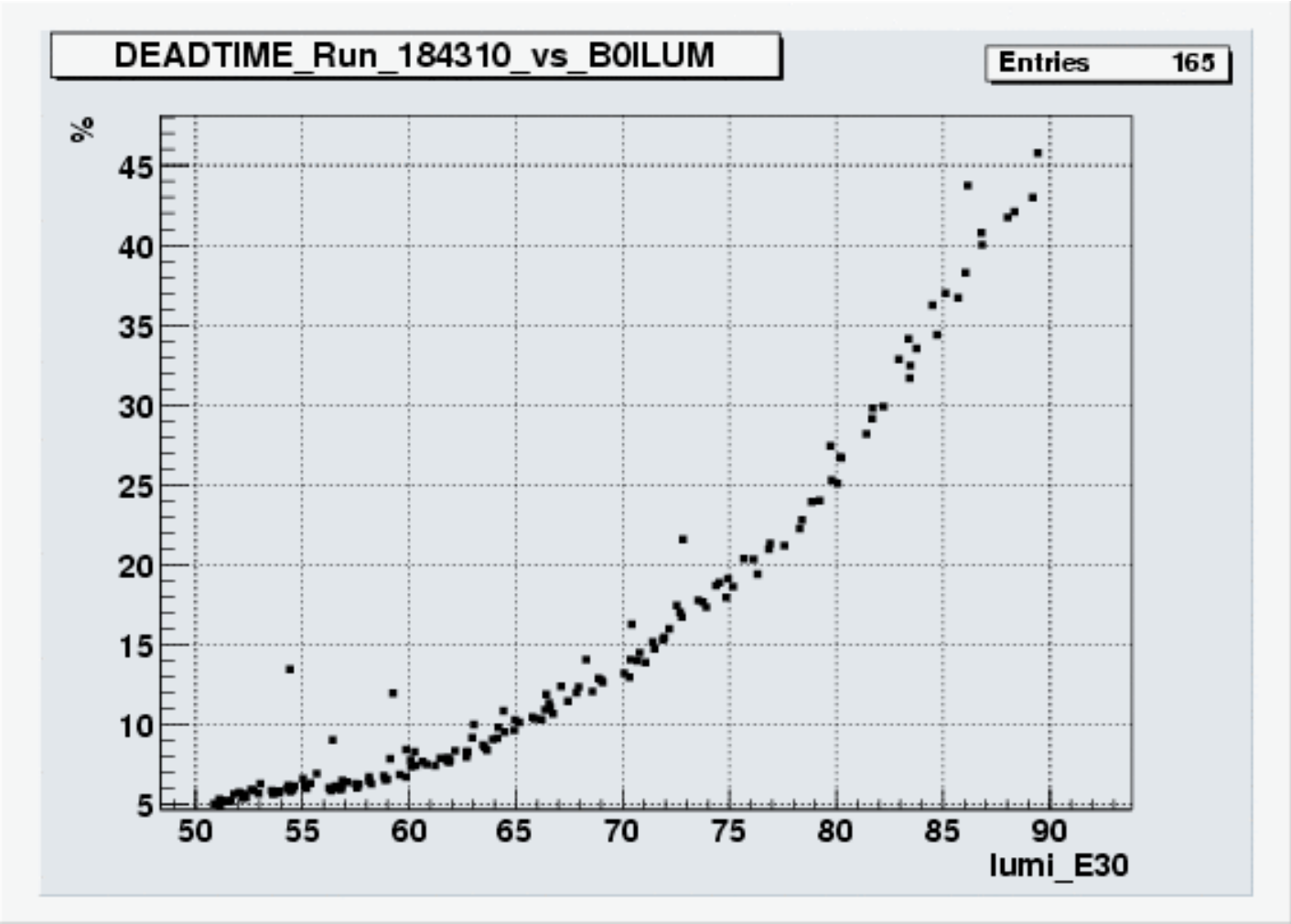
This Week's Stores

Date	Store	Hrs	Inst Lum (initial)	Deliv (Usable) [nb^{-1}]	Lum to tape (ε)	Comment
6/18	3582	27	80.1e30	3140 (2530)	1802 (71%)	**LOSTP, SVT timing**
6/19	3584	28	88.9e30	3112 (2304)	2060 (89%)	**LOSTP, r.w. tests, Si DMODE**
6/21	3586	31	89.5e30	3676	2676 (73%)	**Clean store, b0cmp00**
6/22	3588	22	91.8e30	3334	2853 (86%)	**VERY clean store, high deadtime, road warrior default, quench**
6/23	3589		89.2e30			**Another clean store, psh calib, deadtime**
Total				13.3 pb^{-1} (11.8)	9.4 pb^{-1} (79%)	

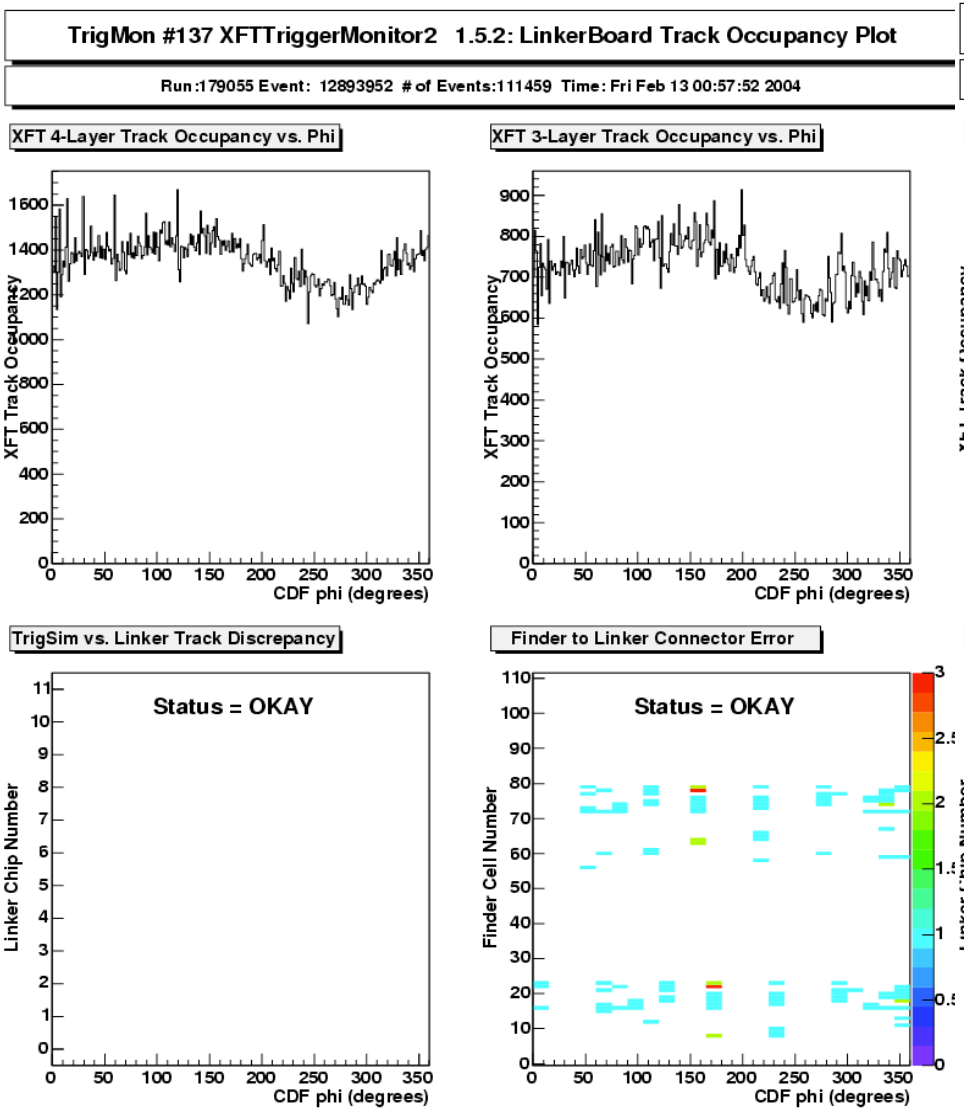
Downtimes, 3582 to 3588

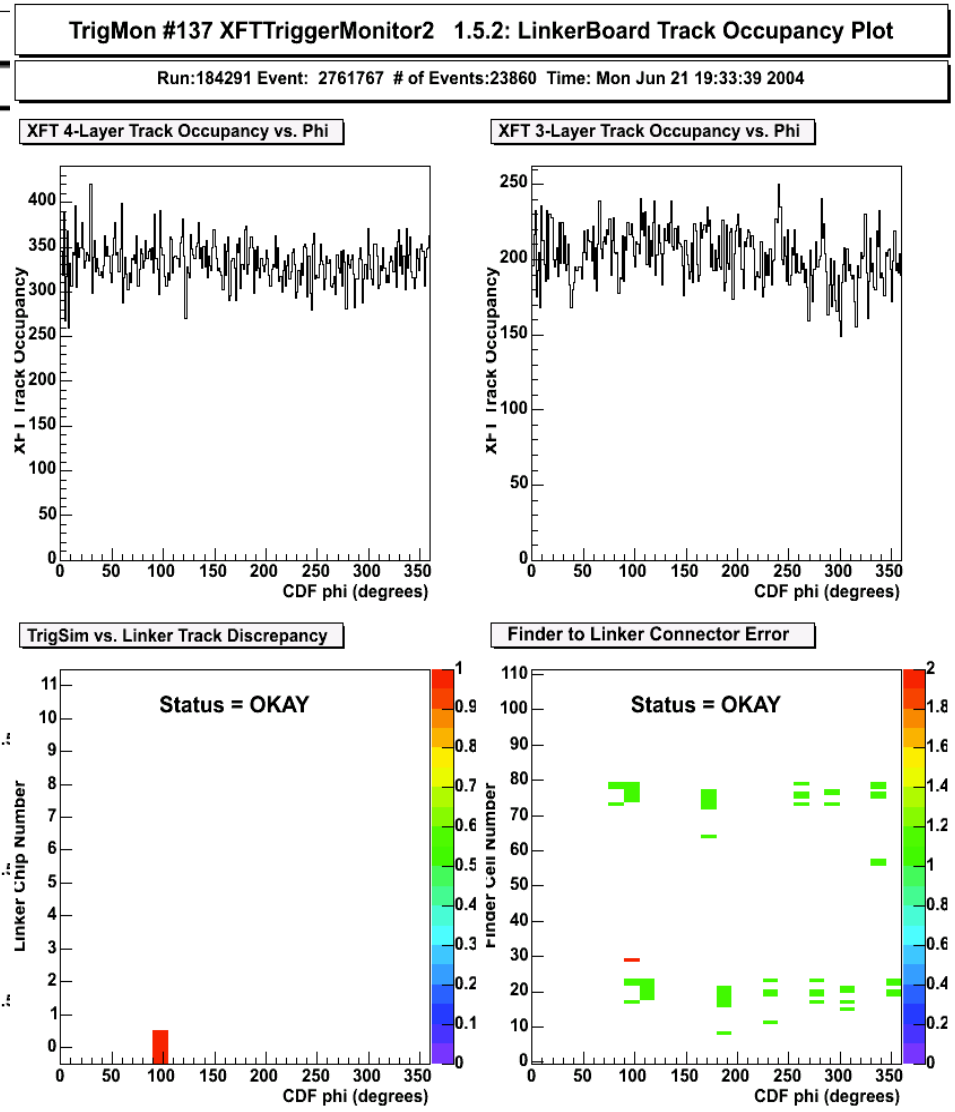
Category	Downtime (minutes)	Lost lumi [nb^{-1}]	Comments
TDC's	163	496	Subtle problem with done signal in b0cmp00
L3	166	360	Left in single buffer mode from SVT timing tests
TeV losses	92	286	LOSTP and A.G. spikes
CMX	49	141	HV trips
SVT	39	102	Road Warrior tests (lost in transitions, more if running time included.
EVB	54	98	Various

Deadtime at High Luminosity



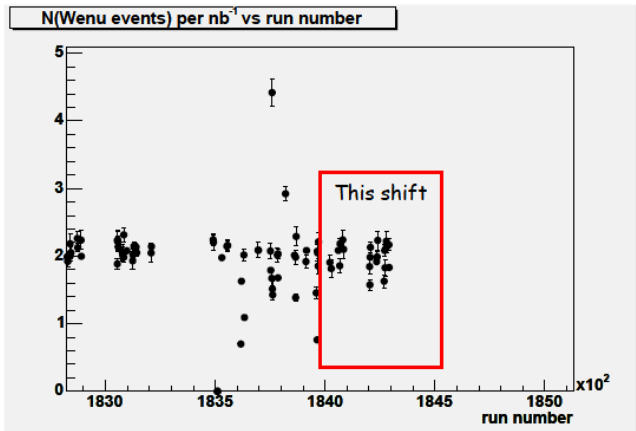
Evidence of COT Gain Recovery



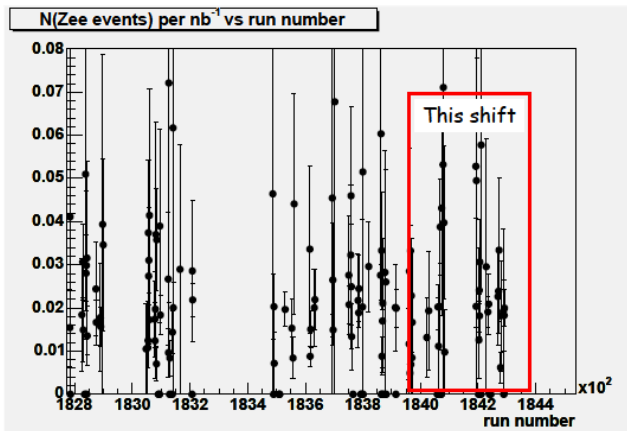


Physics Monitoring (~184291)

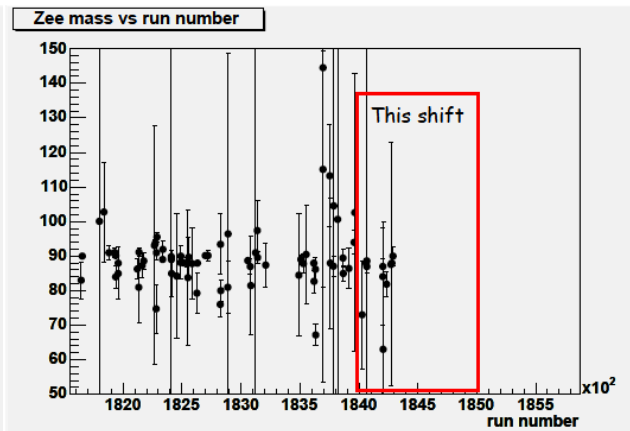
N(W->e nu) / nb



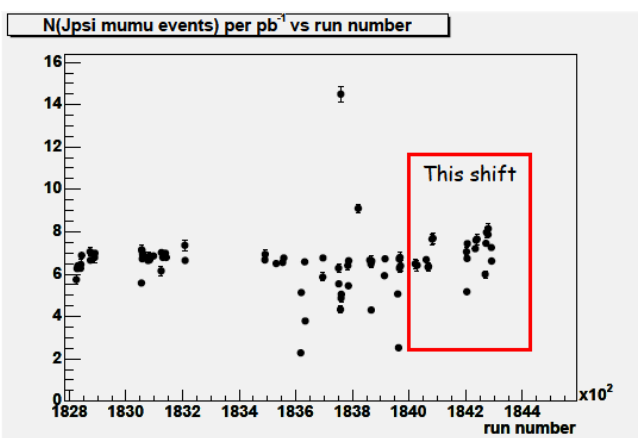
N(Z->ee) / nb



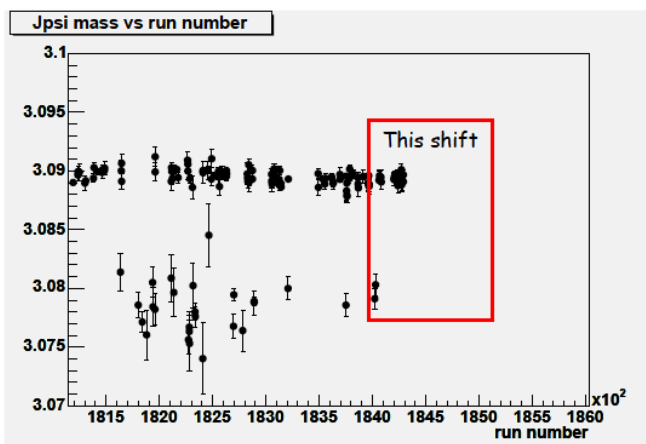
Z->ee mass



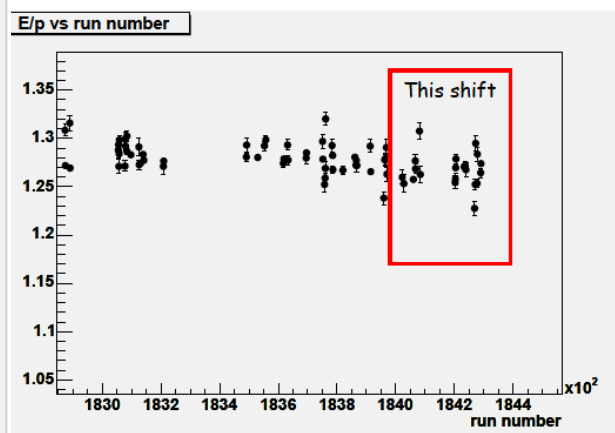
N(J/psi -> mu mu) / nb



J/psi mass



E/p



Summary

- Accelerator continues to increase initial luminosity.
- Recent adjustments have greatly reduced the losses.
  - In the last 2 stores we were able to turn on the detector immediately after scraping.
- Our inefficiency is roughly split between deadtime, and downtimes from detector faults.
  - DAQ survived at ~50% deadtime
- Evidence of COT gain recovery in the XFT phi distribution
- Farms processing up to 183796 (June 9)
  - calibration pass 11A/10A not available due to problem in picking up the TOF tables.