



MINOS+ Status Report



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All Experimenters' Meetings

March 31, 2014



Near Detector



- Taking good data all week, except during scheduled beam down time
- Electronic maintenance
 - Hot Minder channel 6-20-5 was replaced on Wednesday
 - Master 4-10 was re-calibrated to try to fix the Rogue Pedestals issues
- Three RPS (11,12,13) were not communicating
 - fiber based RPS readout cables for those three crates were swapped with the new standard copper cables
 - Had installed one copper cable to RPS rack 10, no problems reading the RPS with for a longtime
 - Wanted to switch a few more racks to the new system
 - Suspicion is the router configuration does not have these new ports open and/or active.
 - Not resolved Friday before the end of the shutdown, put these three racks back the way they were before.



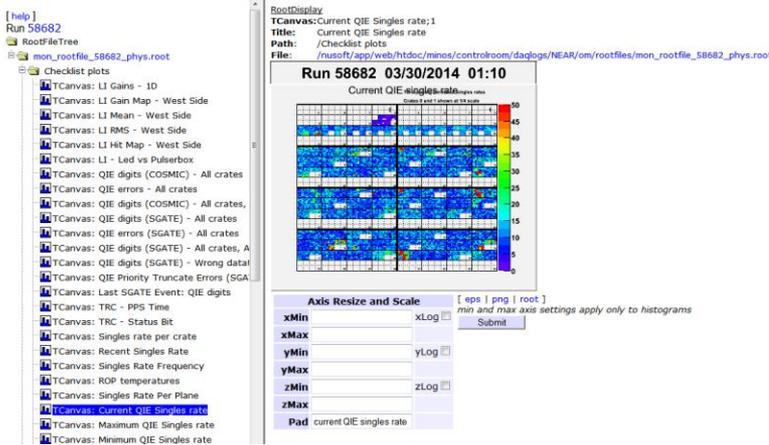
Near Detector DAQ



- Plan to another network disconnect test during next beam downtime
 - To check we can run the whole system without outside network
 - Requires removing BlueArc from the minos online systems
 - System admin people want to make a detailed plan first before making any change.
 - Postpone to next shut-down



Near Detector DAQ



• Two new nice features

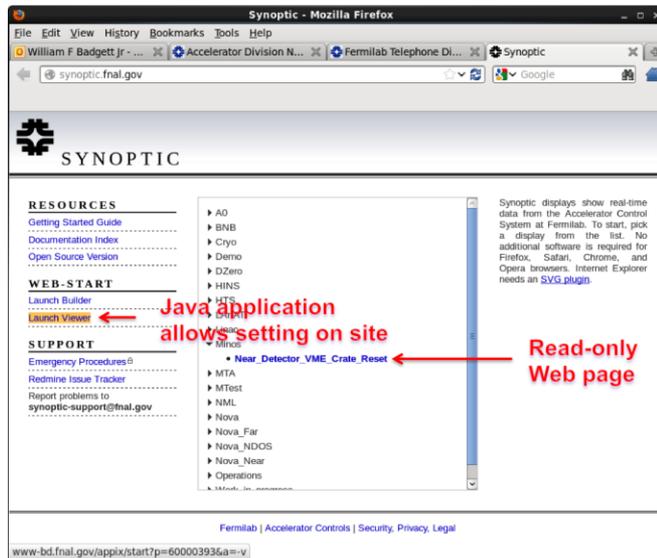
– Web based MinosBrowser OM Plots

- Browser any run on the web with OM root files still on the /nusoft disk.
- Adaptation from the CDF browser

– Minos Reset synoptic page

- Launch a java application if you have a valid kerberos ticket
- Allow reset for each crate, or all eight crates
- For experts use only, not for shifters

– Both implemented by William Badgett





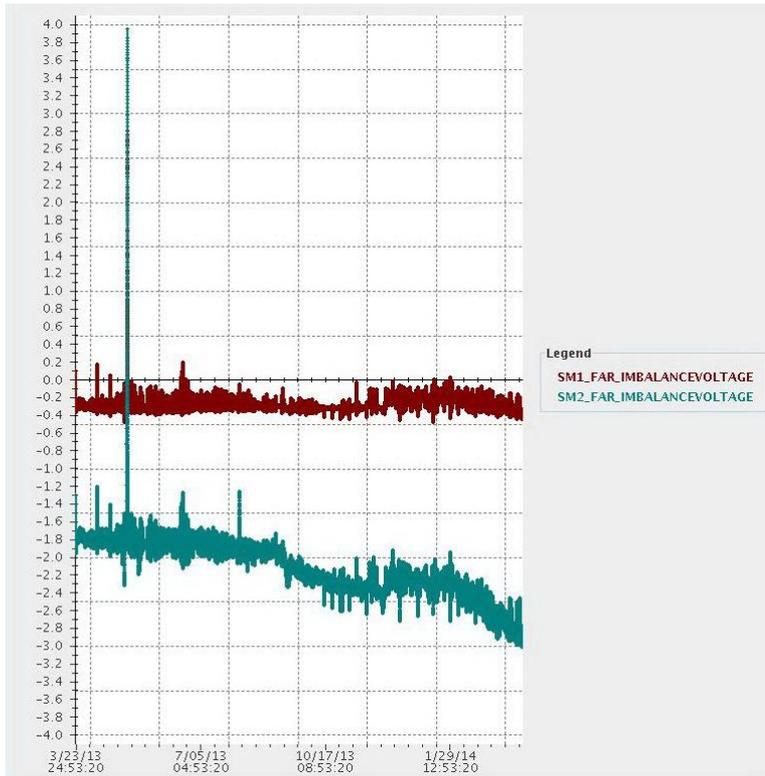
Far Detector



- Taking good data all week as well, except during scheduled beam down time
- A few small issues
- Rack 8 RPS went into warning and alarm.
 - The -5V external supply voltage had crept up over time
 - Turning down the voltage cleared everything up
- ETC errors from crate 1
 - Swapping cables and swapping them back,
 - The ETC error problem on 1-0-5 has gone away
- Three spare MVME5500s
 - Verified they are good.
 - Two of these have been flashed with the latest kernel version
- Crate 14 flat CI investigation
 - Troubleshooting during last week beam downtime and today suggested the problem is interface/adaptor card mounted to the side of the MUX box



Far Detector



- SM2 Magnet imbalance voltage
 - Temporary temperature fluctuation caused SM2 imbalance to the warning level
 - The current in SM2 remained stable as the system compensated for slightly warmer cooling water
 - SM2 imbalance in DCS View shows slowly drifting down during last year
 - Probably due to an aging component in the coil
 - It does not affect data taking or data quality



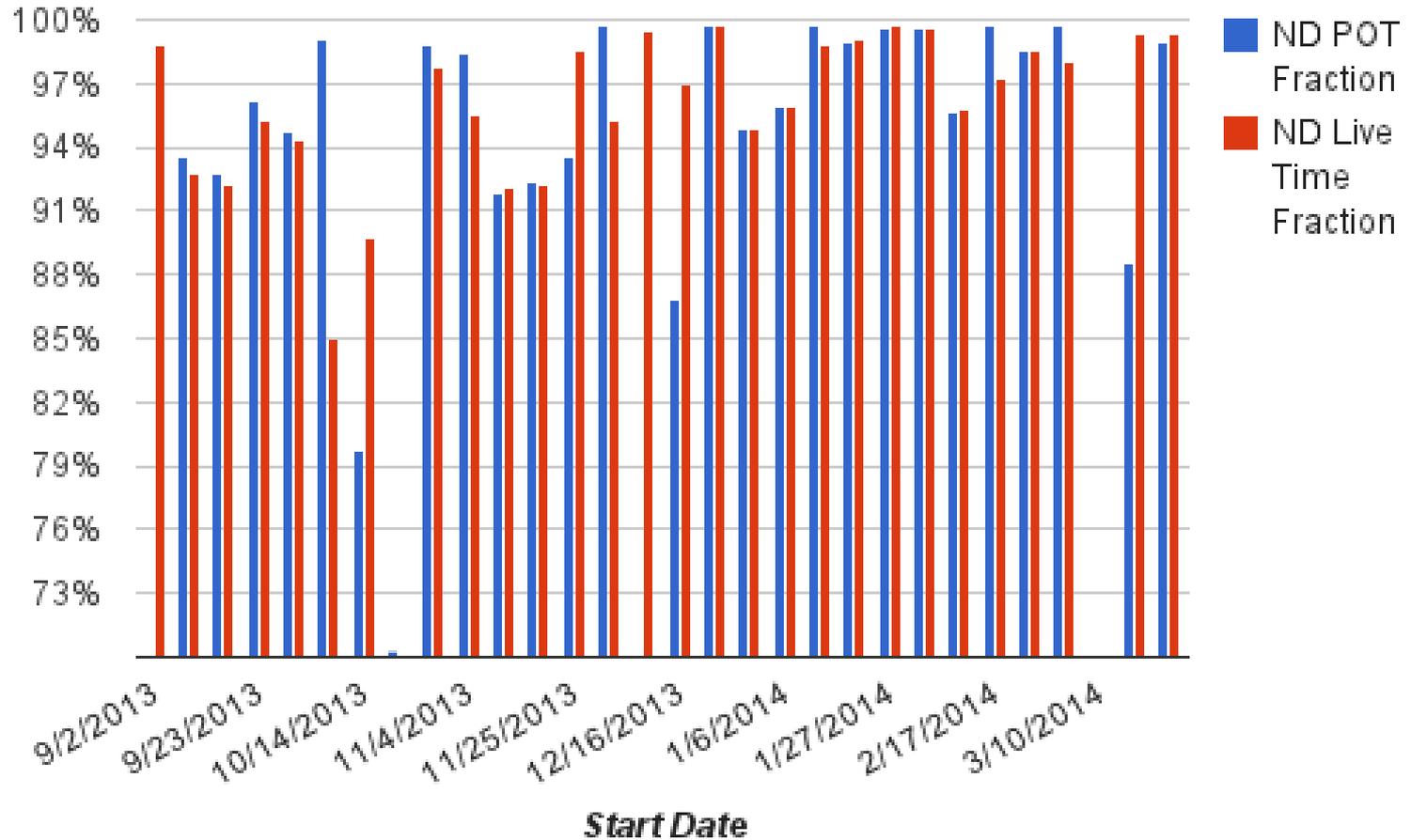
MINOS+ Status



Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
12/30/13 00:00:00	01/06/14 00:00:00	94.9%	94.9%	98.5%	98.5%
01/06/14 00:00:00	01/13/14 00:00:00	95.9%	95.9%	98.7%	98.8%
01/13/14 00:00:00	01/20/14 00:00:00	99.7%	98.8%	99.8%	99.3%
01/20/14 00:00:00	01/27/14 00:00:00	99.0%	99.1%	95.2%	94.8%
1/27/14 00:00:00	2/3/14 12:00 AM	99.7%	99.7%	95.8%	96.6%
2/3/14 00:00:00	2/10/14 12:00 AM	99.5%	99.6%	94.9%	95.2%
2/10/14 00:00:00	2/17/14 12:00 AM	95.7%	95.7%	99.9%	99.0%
2/17/14 00:00:00	2/24/14 12:00 AM	99.7%	97.2%	78.0%	87.0%
2/24/14 00:00:00	3/03/14 12:00 AM	98.5%	98.5%	2.09%	2.13%
3/03/14 00:00:00	3/10/14 00:00:00	99.8%	98.0%	88.0%	84.2%
3/03/14 00:00:00	3/17/14 12:00	33.6%	48.5%	79.8%	99.1%
3/17/14 00:00:00	3/23/14 00:00:00	88.6%	99.4%	88.4%	99.3%
3/23/14 00:00:00	3/30/14 12:00	98.9%	99.3%	98.3%	94.1%

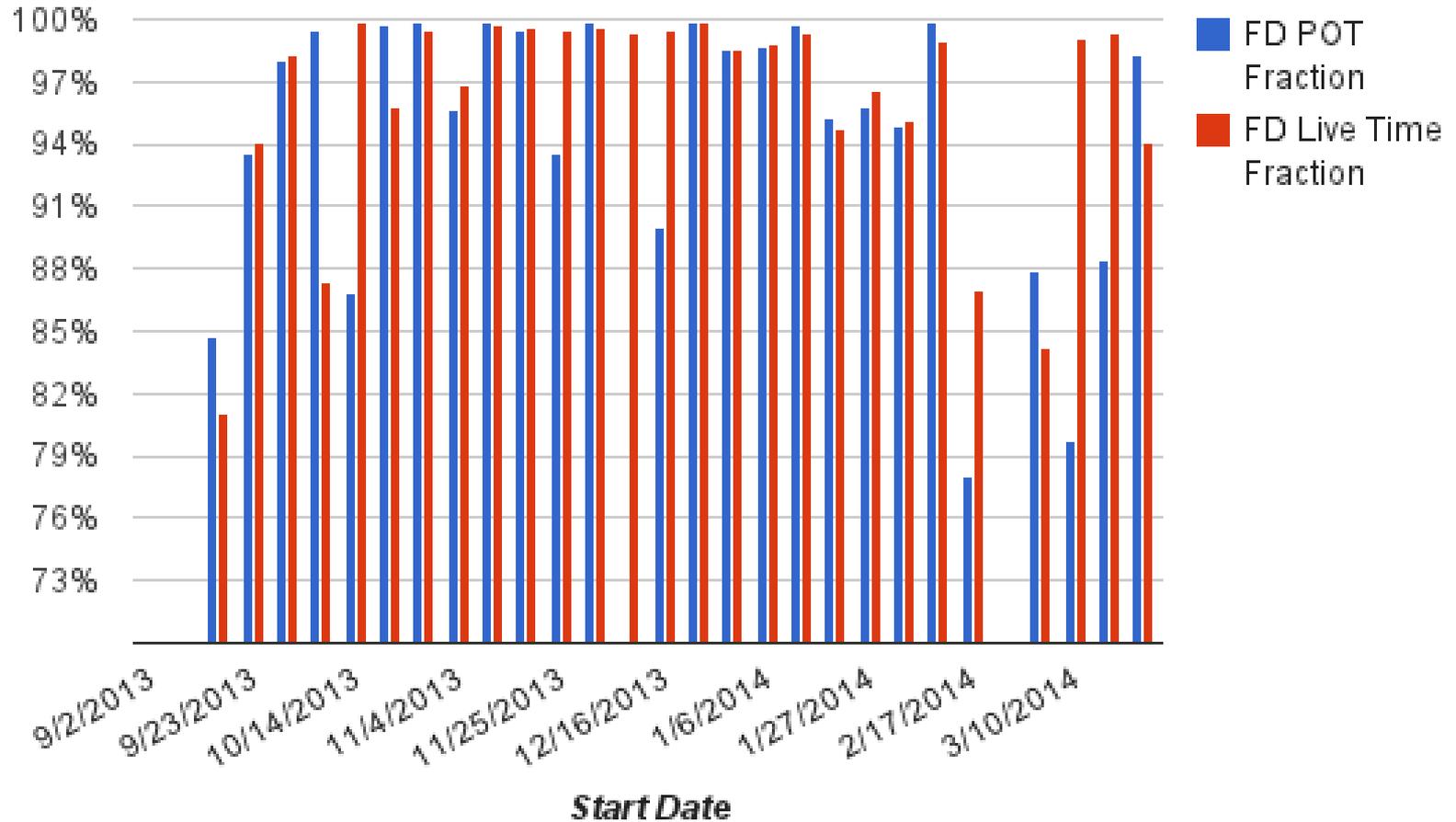


ND POT fraction and Live Time Fraction





FD POT Fraction and Live Time Fraction





Minos+ Status



- MINOS+ is taking very good data
- A lot of maintenance work has been done last week during beam down time
- MINOS+ collaboration meeting next week