

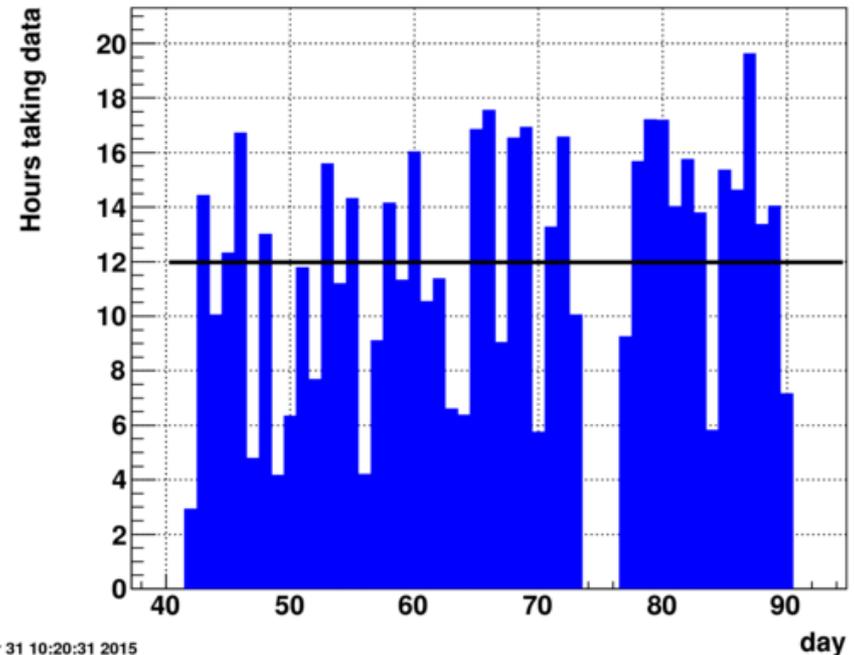
STAR Status

Oleg Eyser

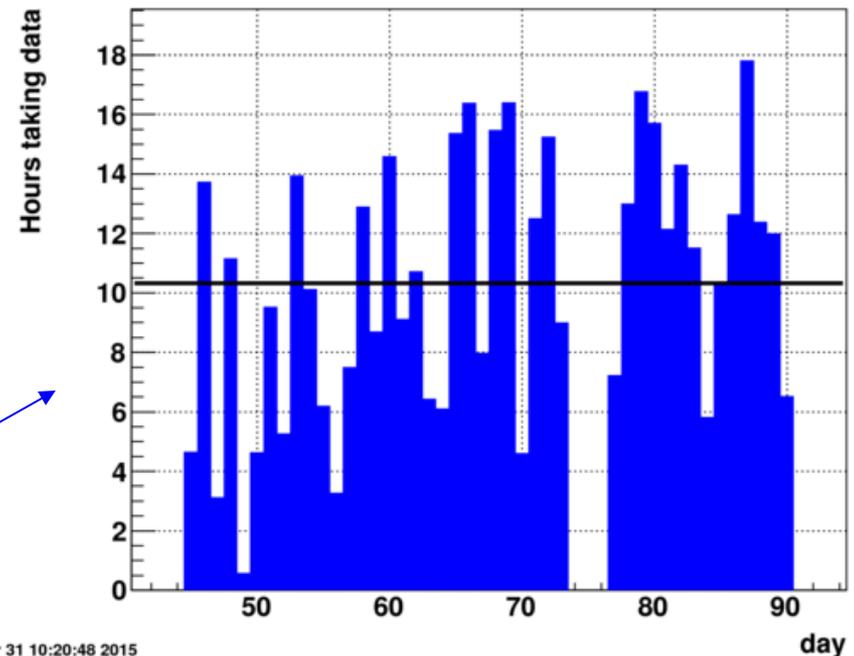
Time Meeting 03/31/2015

- **Very smooth running**
- Extremely efficient shift crews
- Average uptime now 12 hours per day over past six weeks
- Expect even better after latest beam development

with HFT detectors



Tue Mar 31 10:20:31 2015

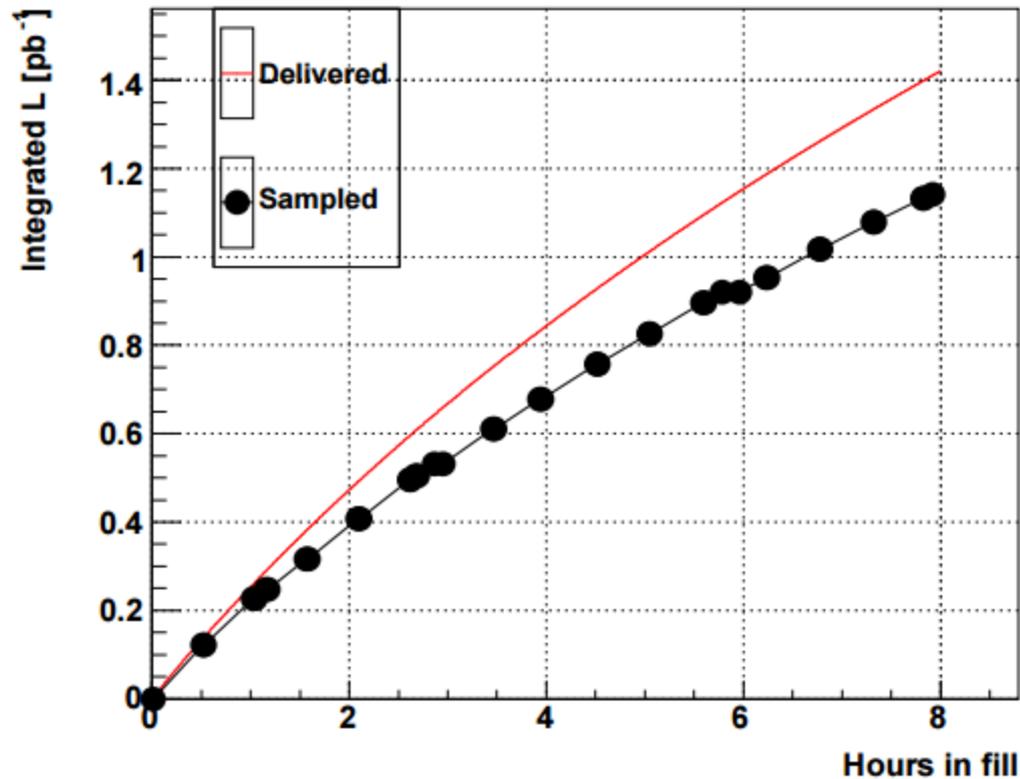


Tue Mar 31 10:20:48 2015

Sampling Luminosity

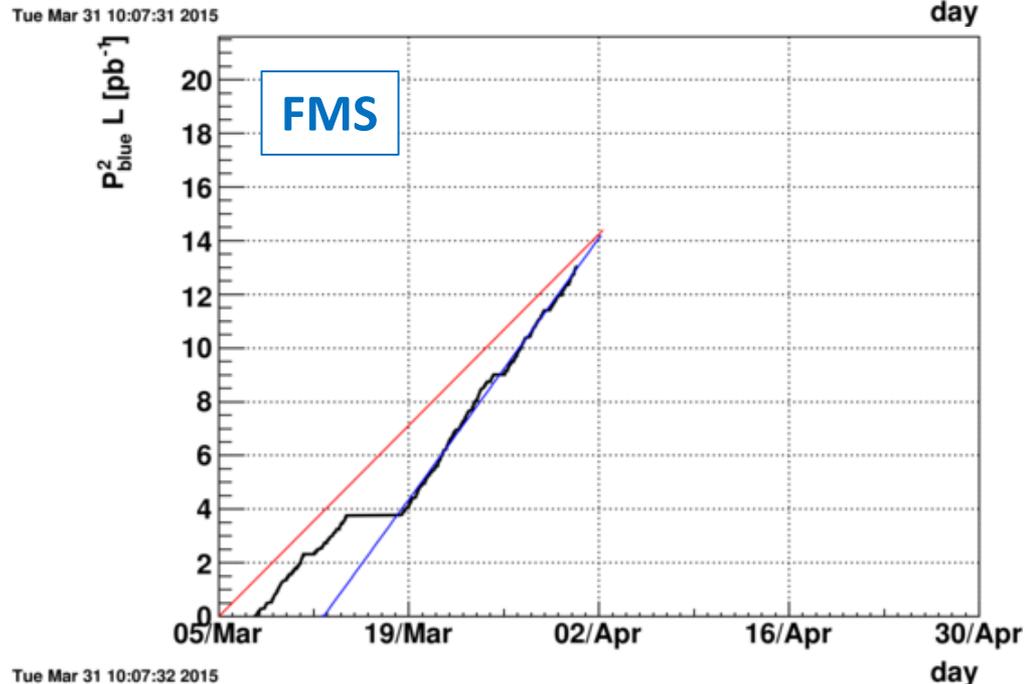
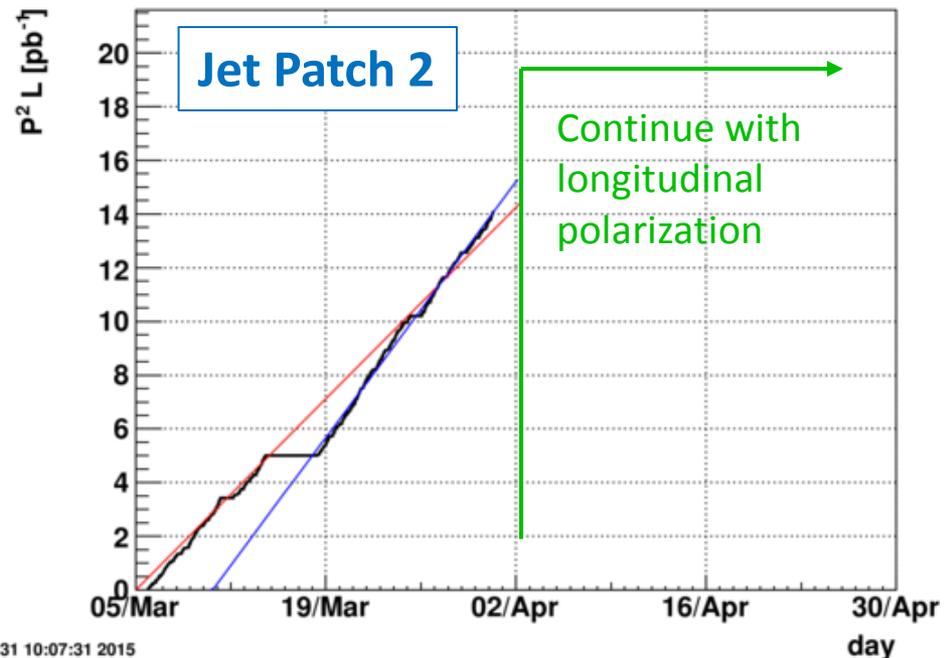
delivered_fill18846.txt

- **8 hour fills**
- STAR takes data less than one minute after PHYSICS is declared
- Luminosity
 - Delivered $1.2 \sim 1.5 \text{ pb}^{-1}$
 - Dead Time $\approx 15\%$
 - **Sampled > 0.8**



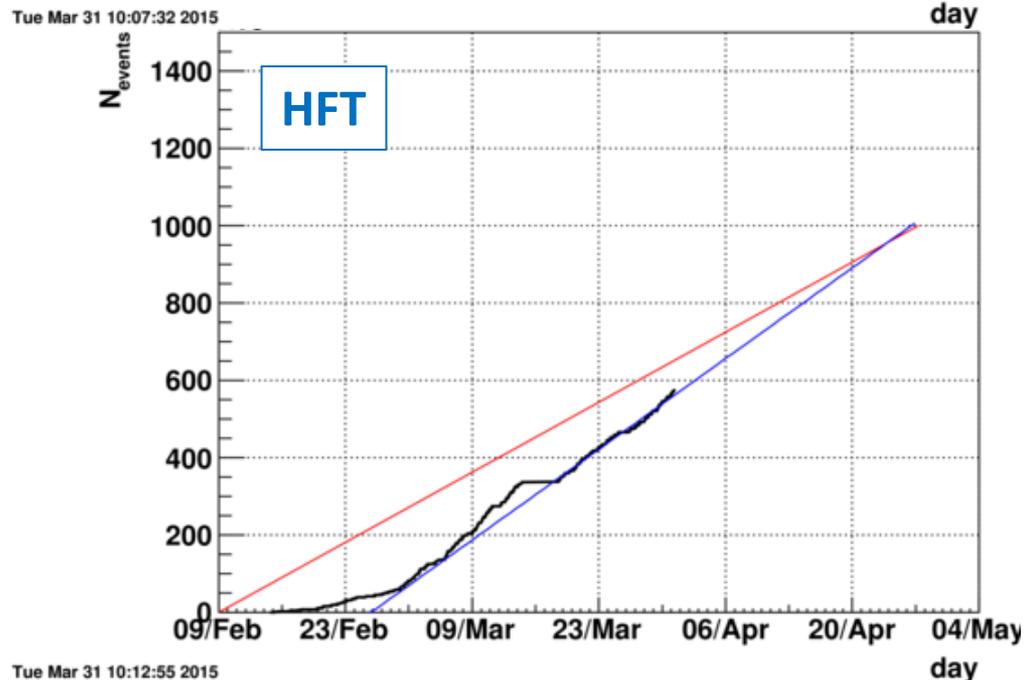
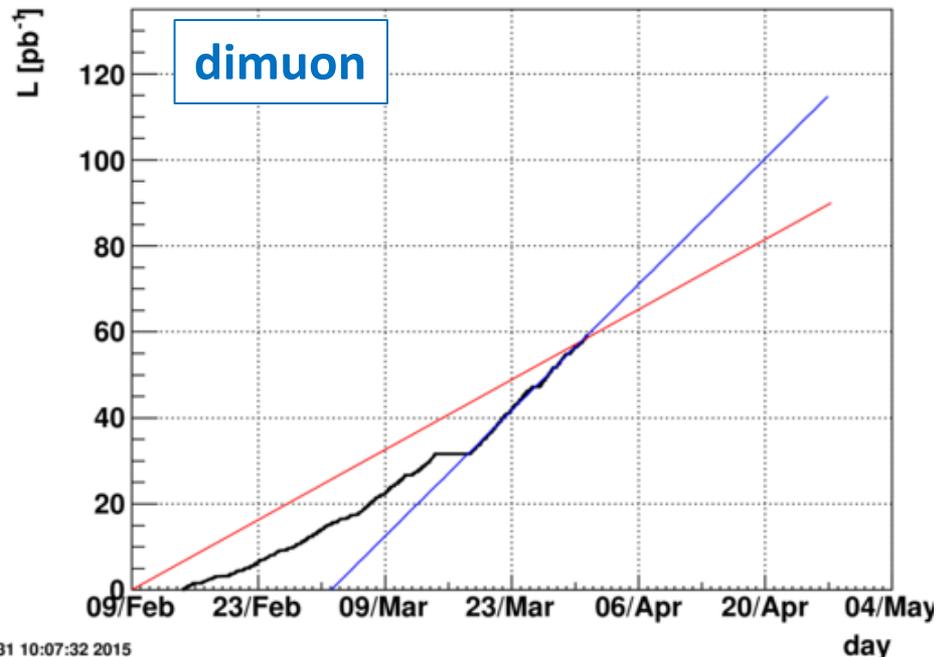
Polarized p+p

- **Transverse polarization**
- Goal: $FOM \approx P^2 \cdot L$
 - $P = 60\%$
 - $L = 40 \text{ pb}^{-1}$
- Jet Patch 1 comes in at about 80%
- **Switching to longitudinal polarization Thursday morning**
 - Double spin asymmetries
 - $FOM = P^4 \cdot L$



Unpolarized p+p

- **Now extended to April 27**
- **Heavy Flavor Physics**
 - MTD & HFT detectors
 - Baseline measurements for heavy ion run 2016
- **HFT operation**
 - Not at beginning of fill
 - Dynamic trigger prescales
 - Balance triggers with other programs
- **Roman pots (PP2PP)**
 - Similar situation to HFT



Tue Mar 31 10:12:55 2015

Sample Fill 18837

System rates 18837

