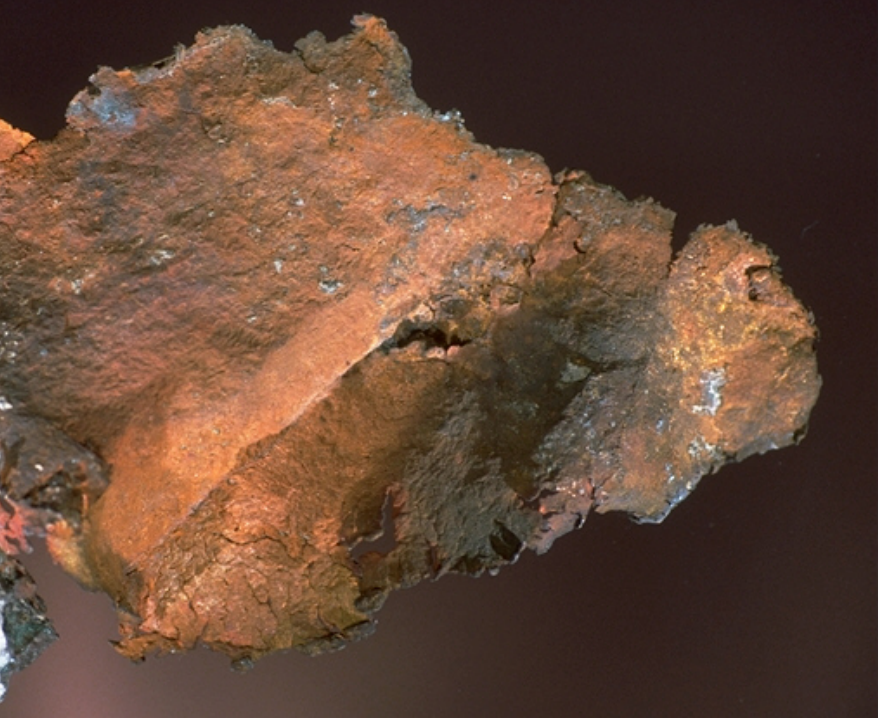


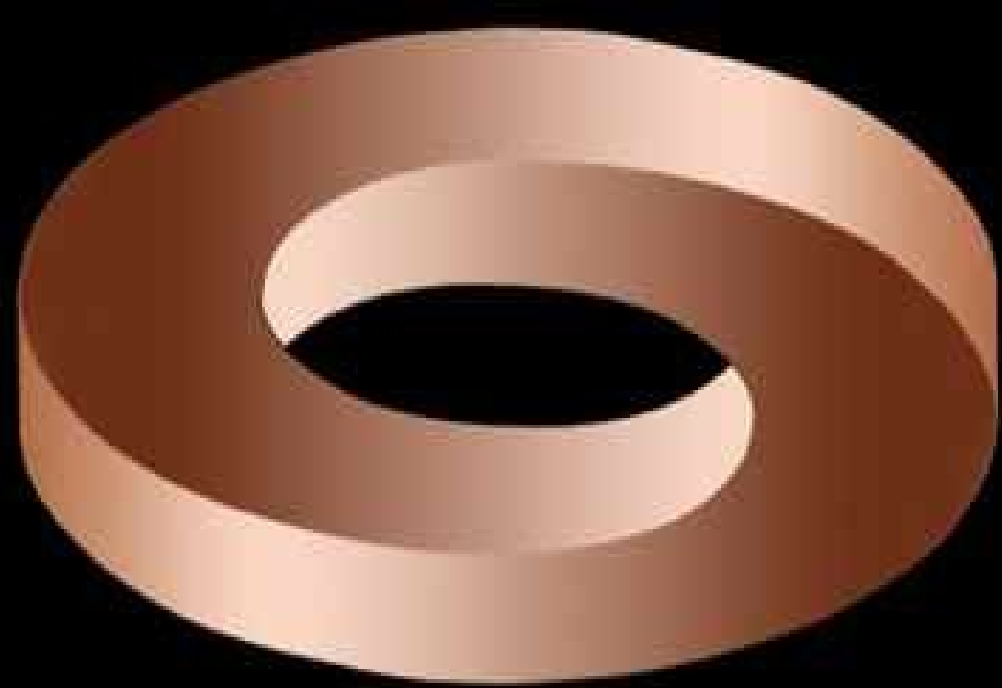


Run-5 Update

Fulvia Pilat



Machine-Experiments
Meeting
March 2, 2005





Status: 7 weeks

Total from January 11 (nbarn-1)

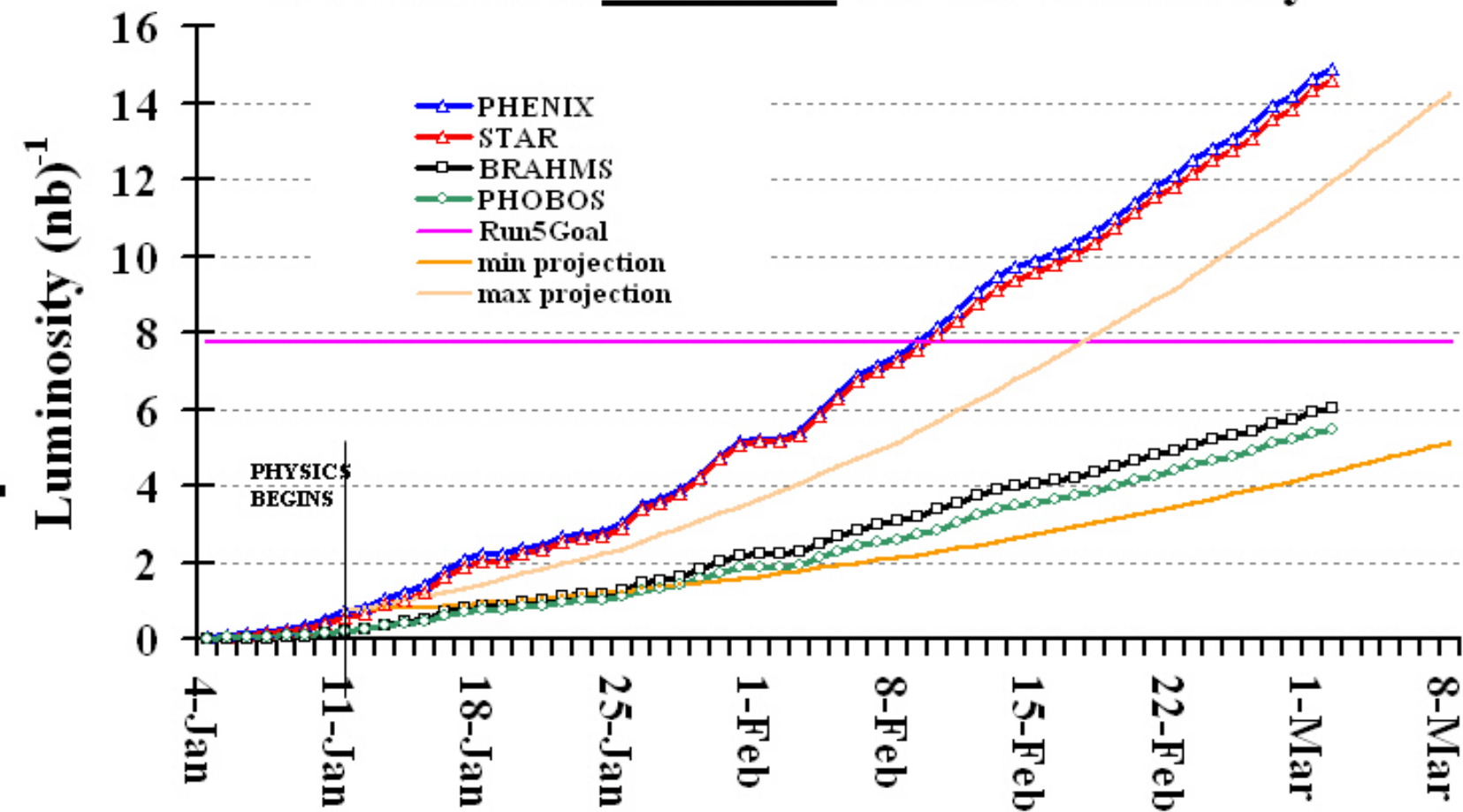
Phenix: 14.17

Star: 13.99

Brahms: 5.81

Phobos: 5.28

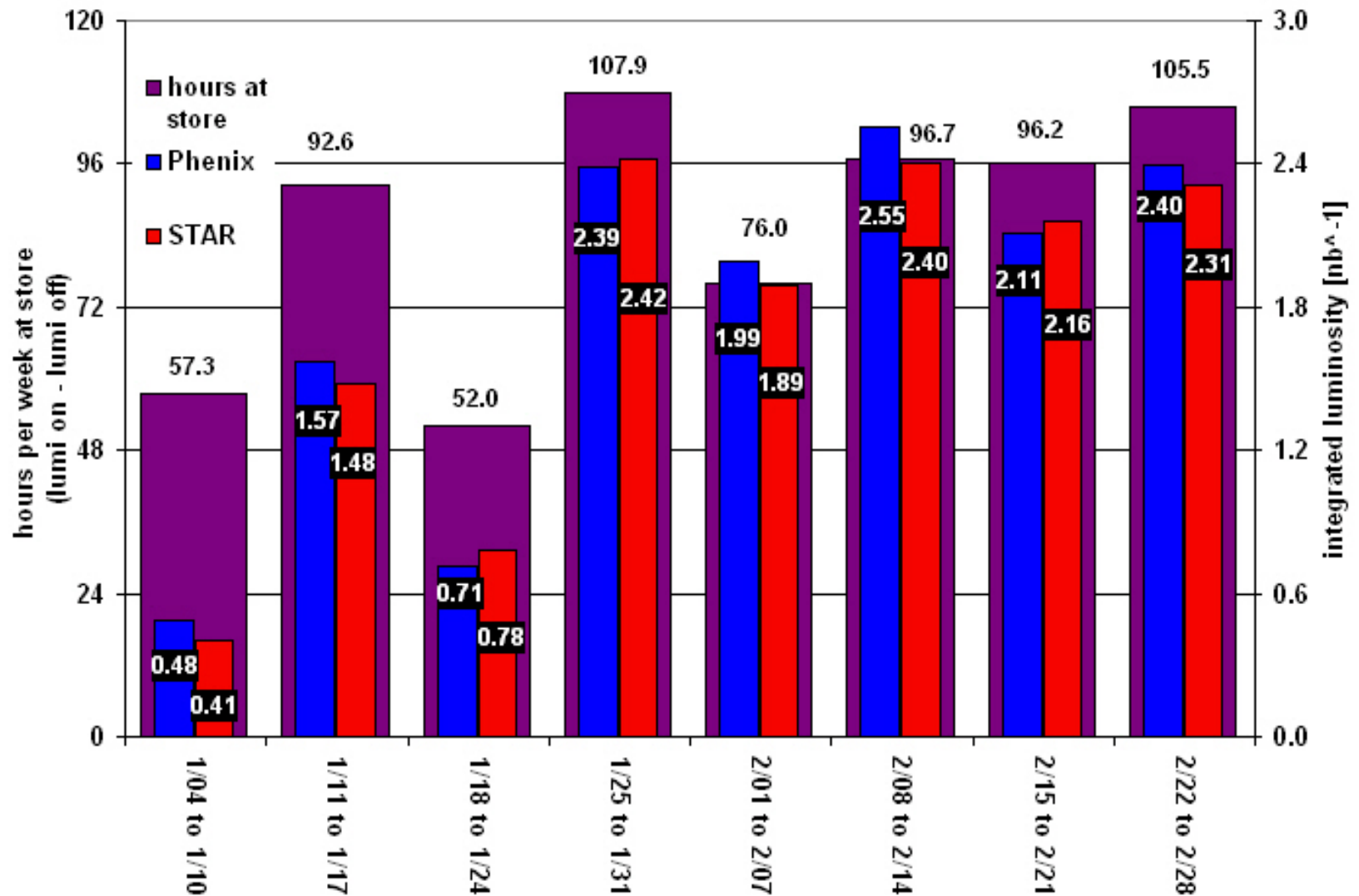
RHIC Run 5 Delivered Cu-Cu Luminosity





Luminosity / week

Run5 -- DELIVERED Integrated Luminosity by week



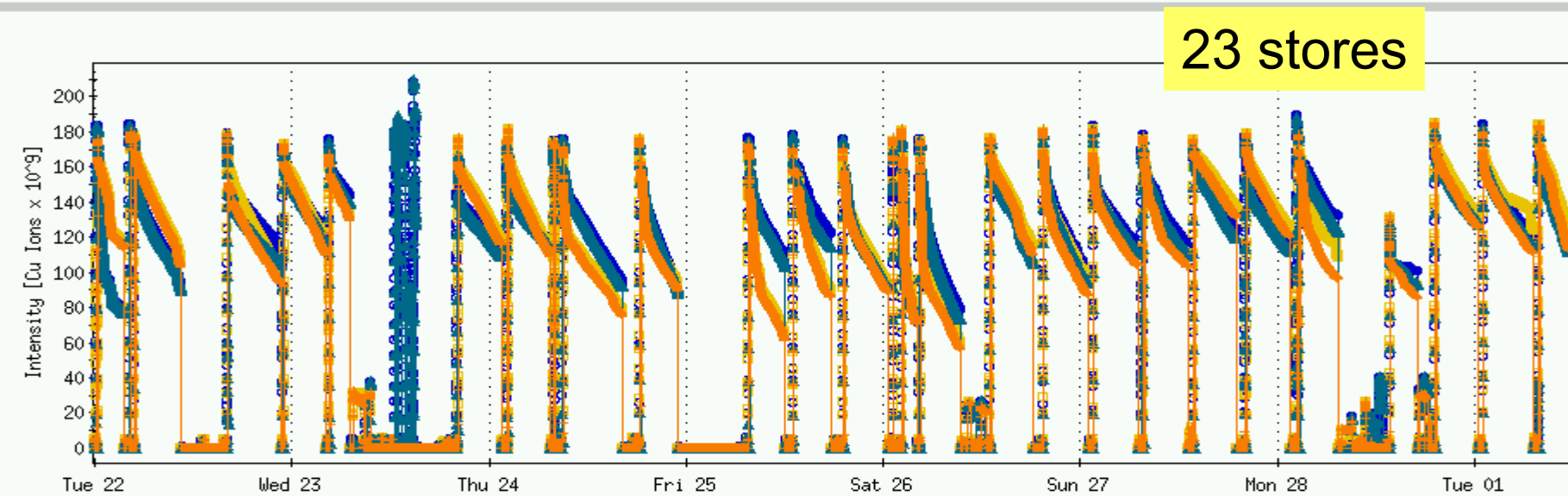
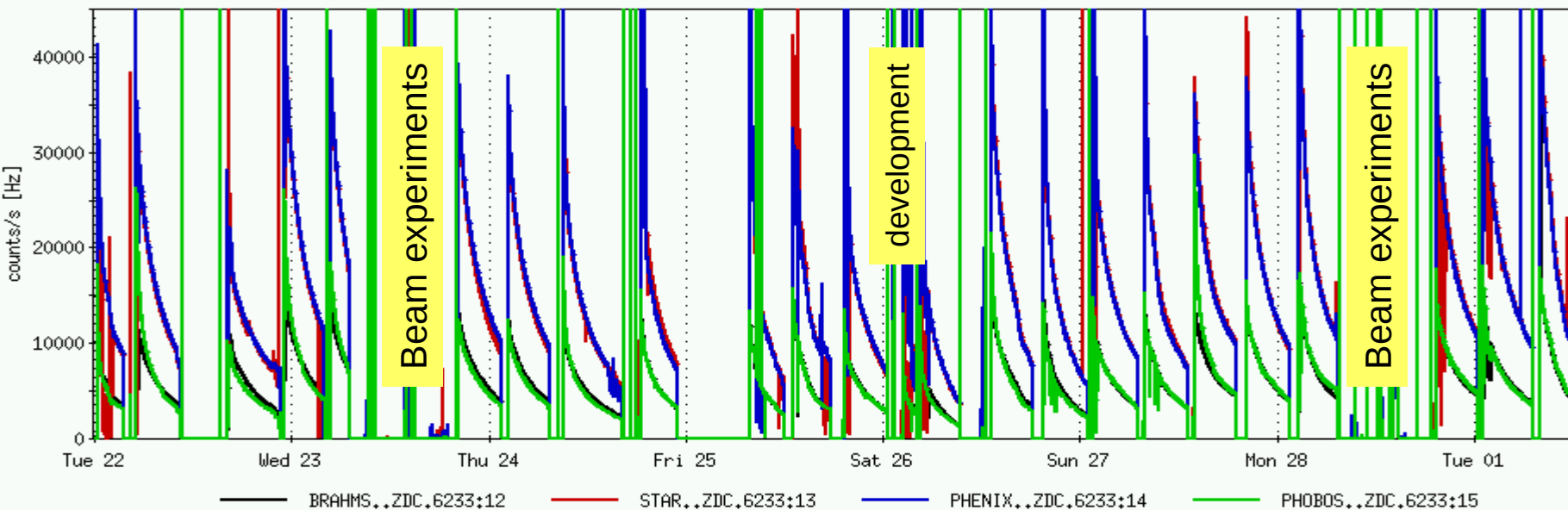


Week 7 – challenges/progress

- Beam decay after re-bucketing
Ramp software slowness (JTM, TJS, AI, NM, JVZ...) → resolved
Orbit shifts → angles at IR6 and IR8 → now monitored
Vadim investigating → next monday
Momentum aperture
- Phobos magnet polarity change → no more change for High-E
one change for Low-E
- Brahms magnets effect on lifetime → ops notified
- Common cavity (X1) , storage cavity (YS2) → fixed
- Ramp transmission – fluctuations ~ few %
- Vertex shifts → fixed
- Commissioning of **injection auto-setup** in progress (Wolfram)

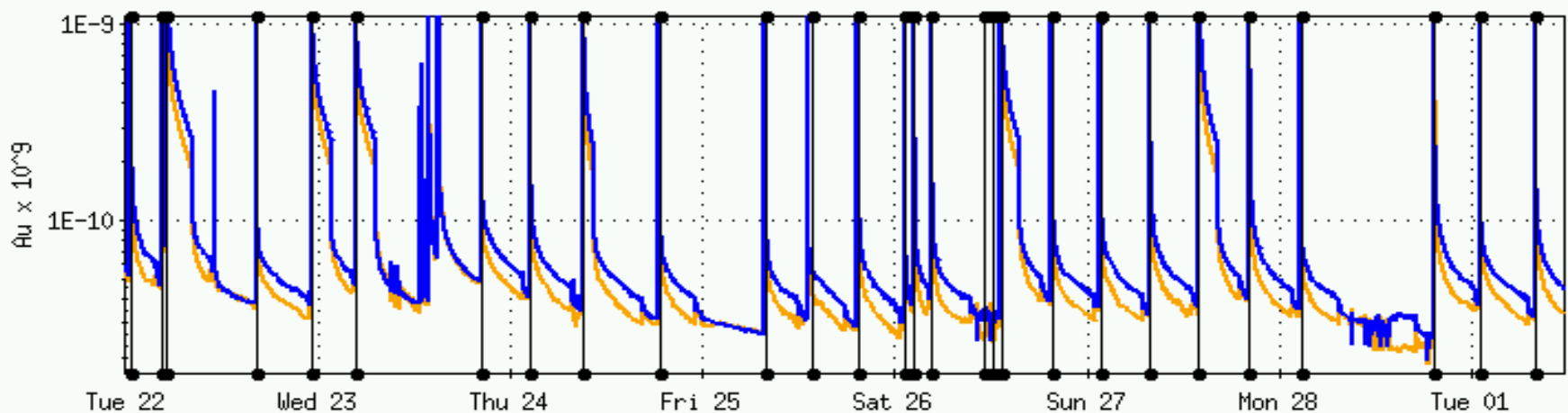
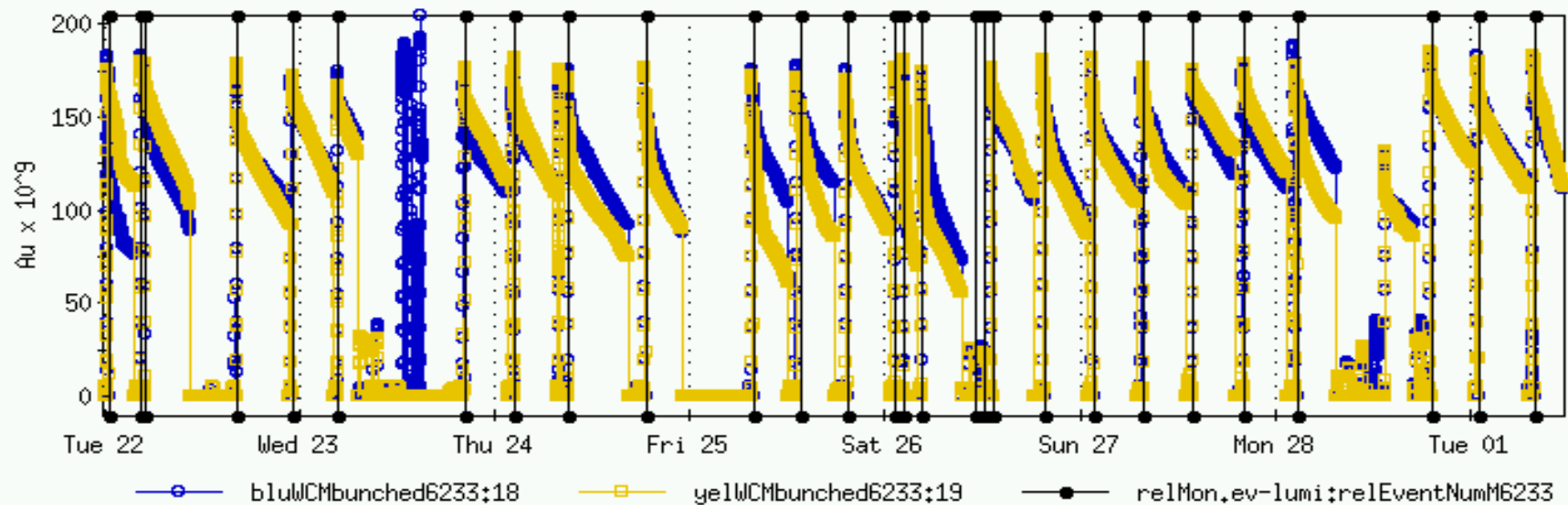


Stores – Week 7



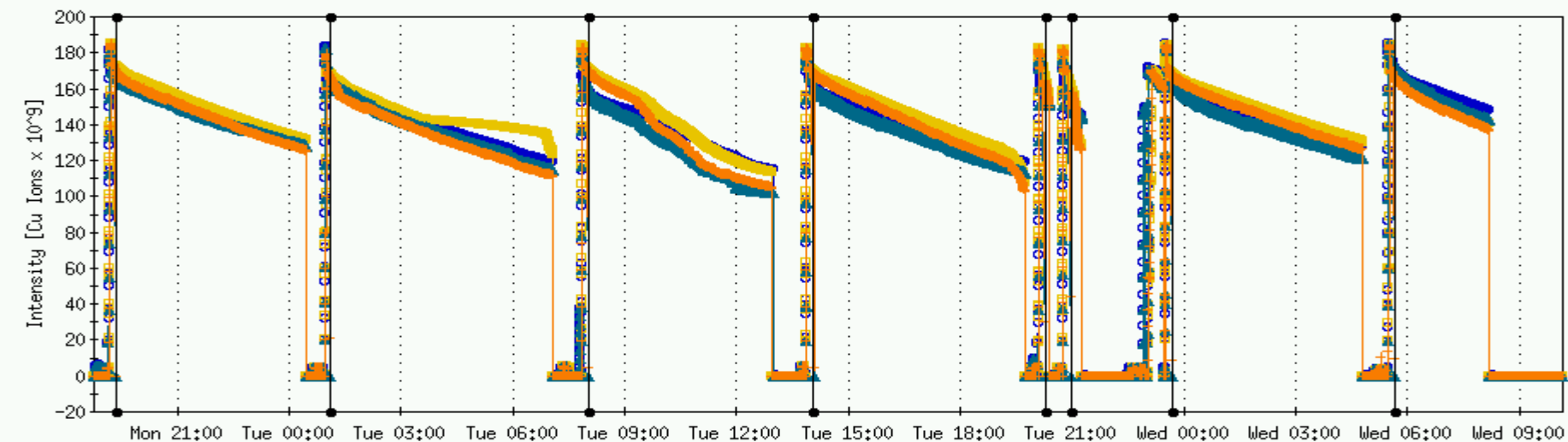
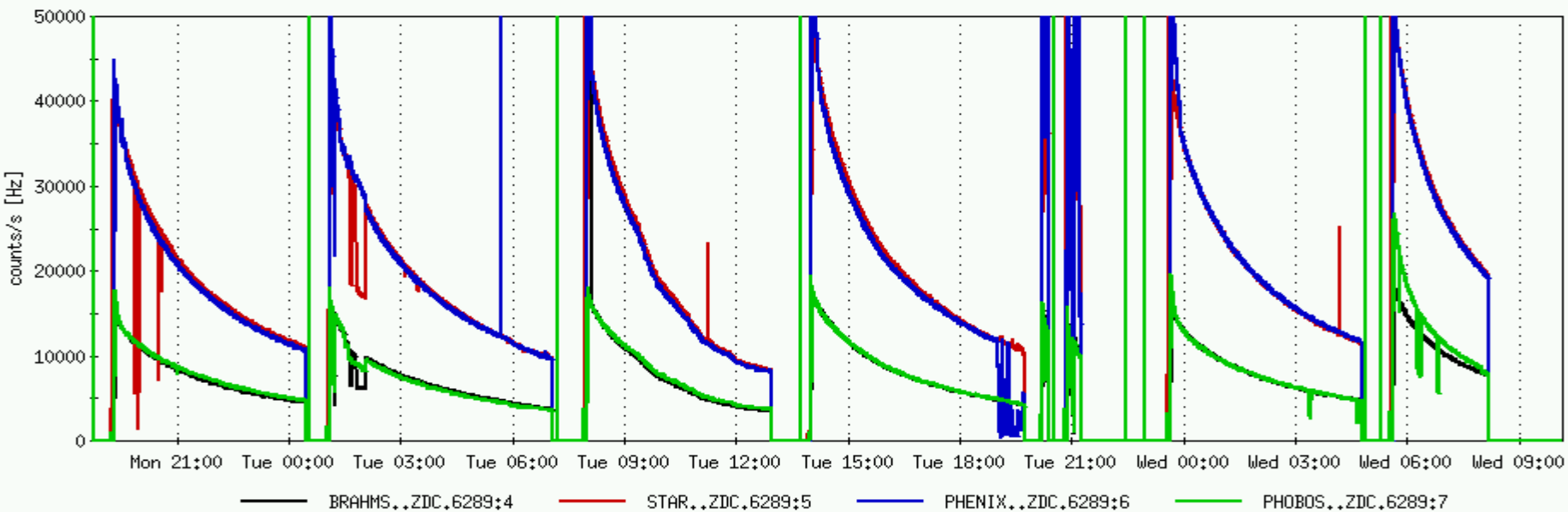


Week 7 - Phobos pressure



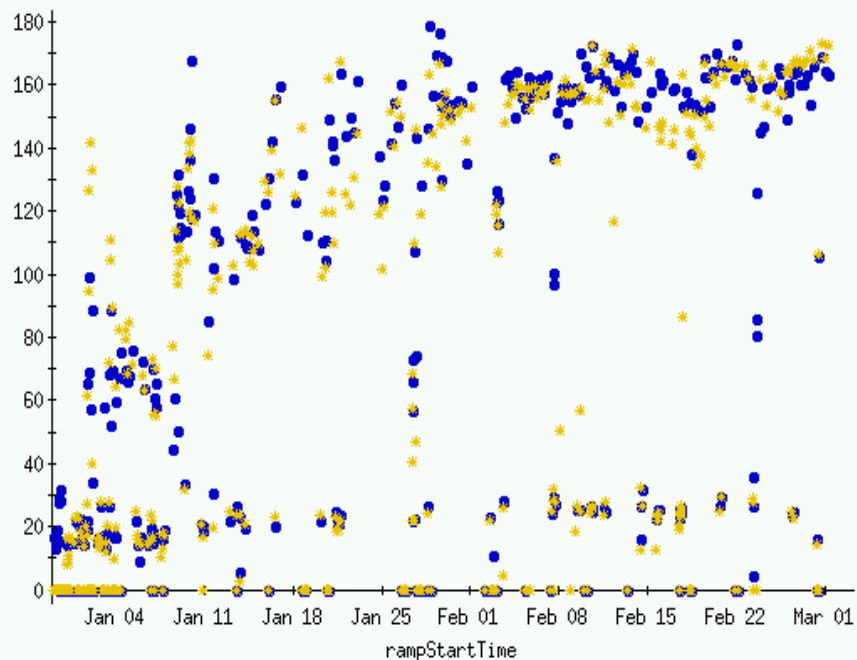


Stores Monday → now

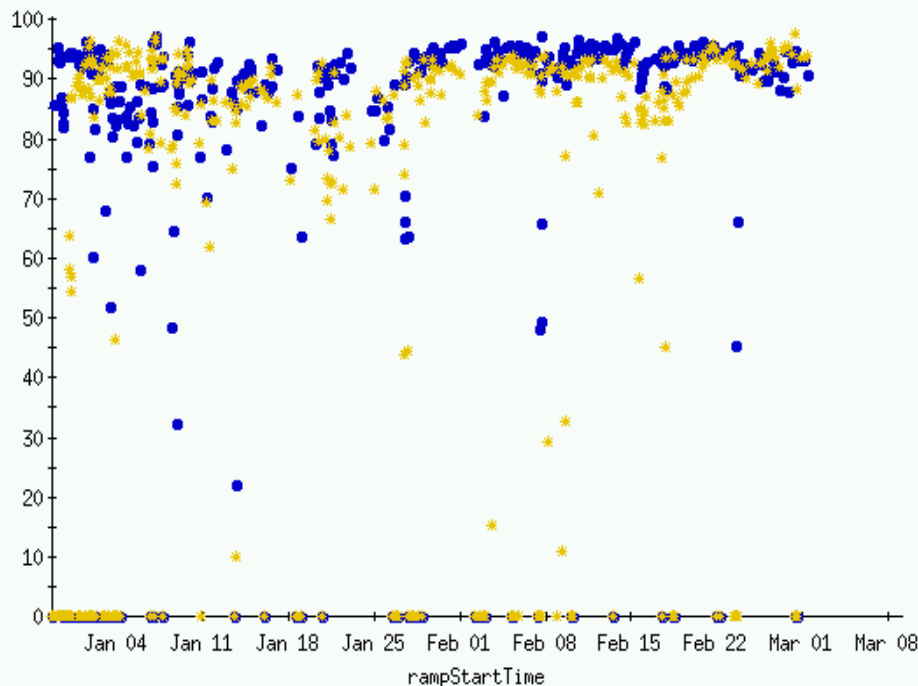




High energy Cu run statistics



Total intensity at store



Ramp efficiency



Plans this and next week

Today (access)

- ❑ test of Cu10 ramp (low energy ramp)

Thursday 3

Store with Star and Phobos magnets ramp to zero field

Friday 4

Store with angle calibration for Brahms

Friday to Monday 8am: physics running high-E

Monday 7 → 8 or 9

set-up for 64.2 GeV

Estimate: **4-6 shifts**

- ❑ **Cu10** ramp commissioning
- ❑ Set-up **re-bucketing** at low energy