

# Run 10 Status

<http://www.cadops.bnl.gov/AP/RHIC2010/>

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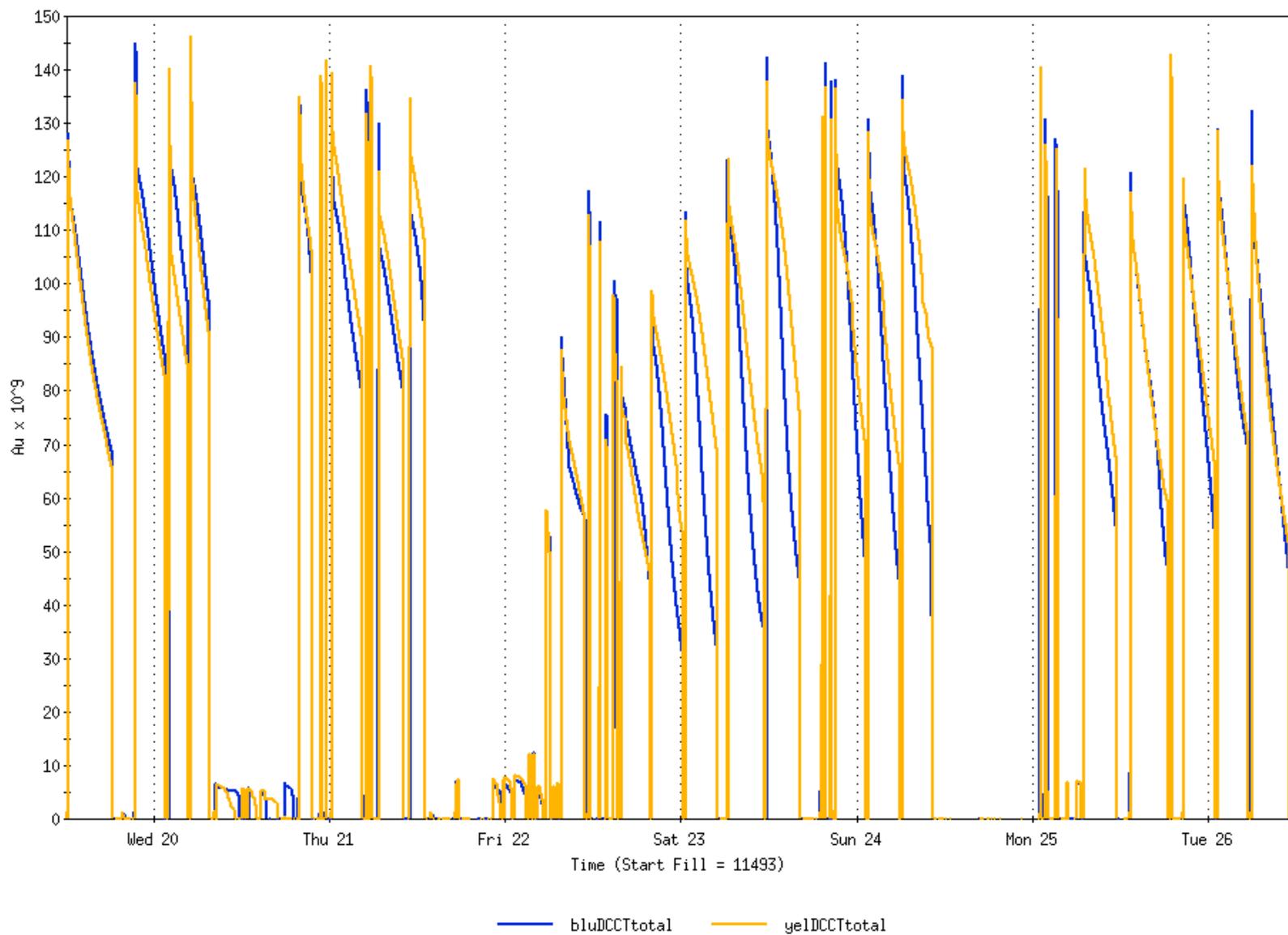
# Status

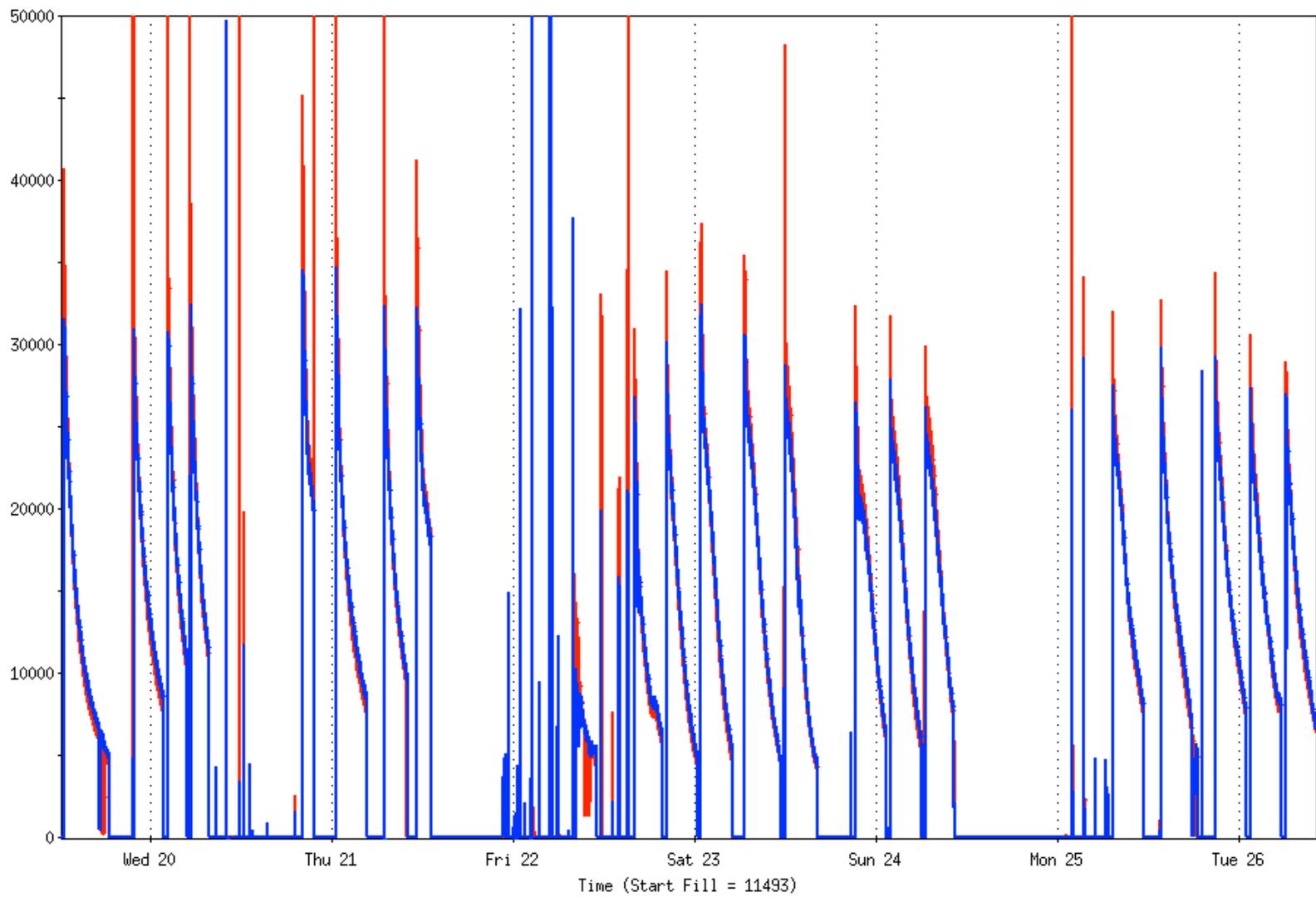
- Running with 111x111, 1.2e9 ions/bunch
  - With rebucketing now (latest store, start with 3.4MV, ramp up to 4.9MV)
- Intensity/bunch
  - No instabilities at 1.1e9 ions/bunch
  - Do see emittance growth at >1.1e9, after trans.
- Stochastic cooling commissioning
  - Yellow Transverse is operational
  - Yellow longitudinal – vacuum problem
  - Blue Transverse – Also has a vacuum problem
  - Will try to fix the Blue kickers on Wednesday.

# Machine Development

- Last Thursday
  - Focus on momentum aperture
  - Decided to increase  $\beta^*$  from 0.6m to 0.7m
  - With larger  $\beta^*$  we have larger momentum aperture and are able to turn on rebucketing
- Current
  - Improve rebucketing
  - Improve momentum aperture? Nonlinear  $\xi$ ?
  - Cooling strategies to maximize luminosity (backgrounds?)

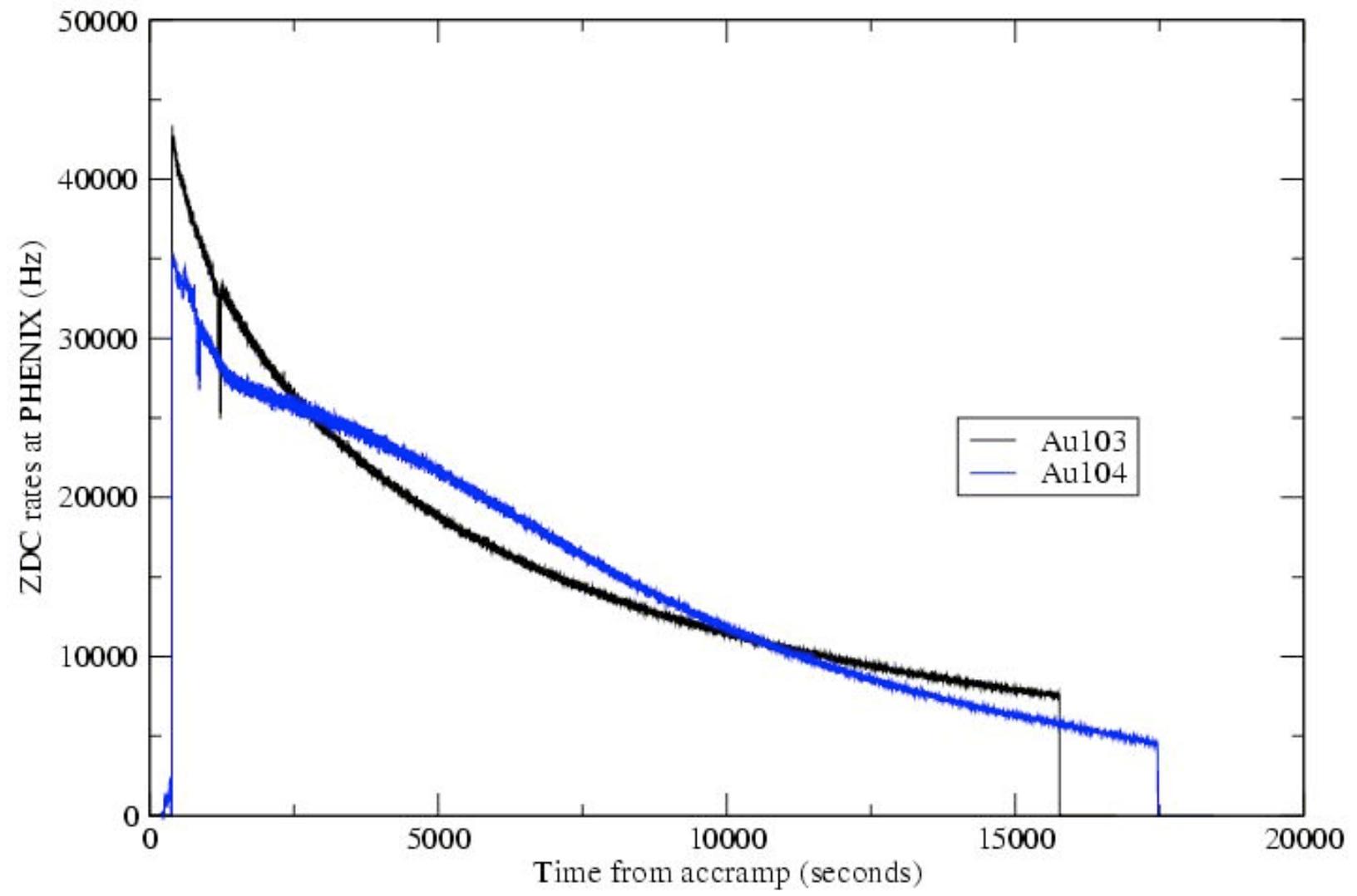
RHIC - DCCT total beam &amp; WCM bunched beam



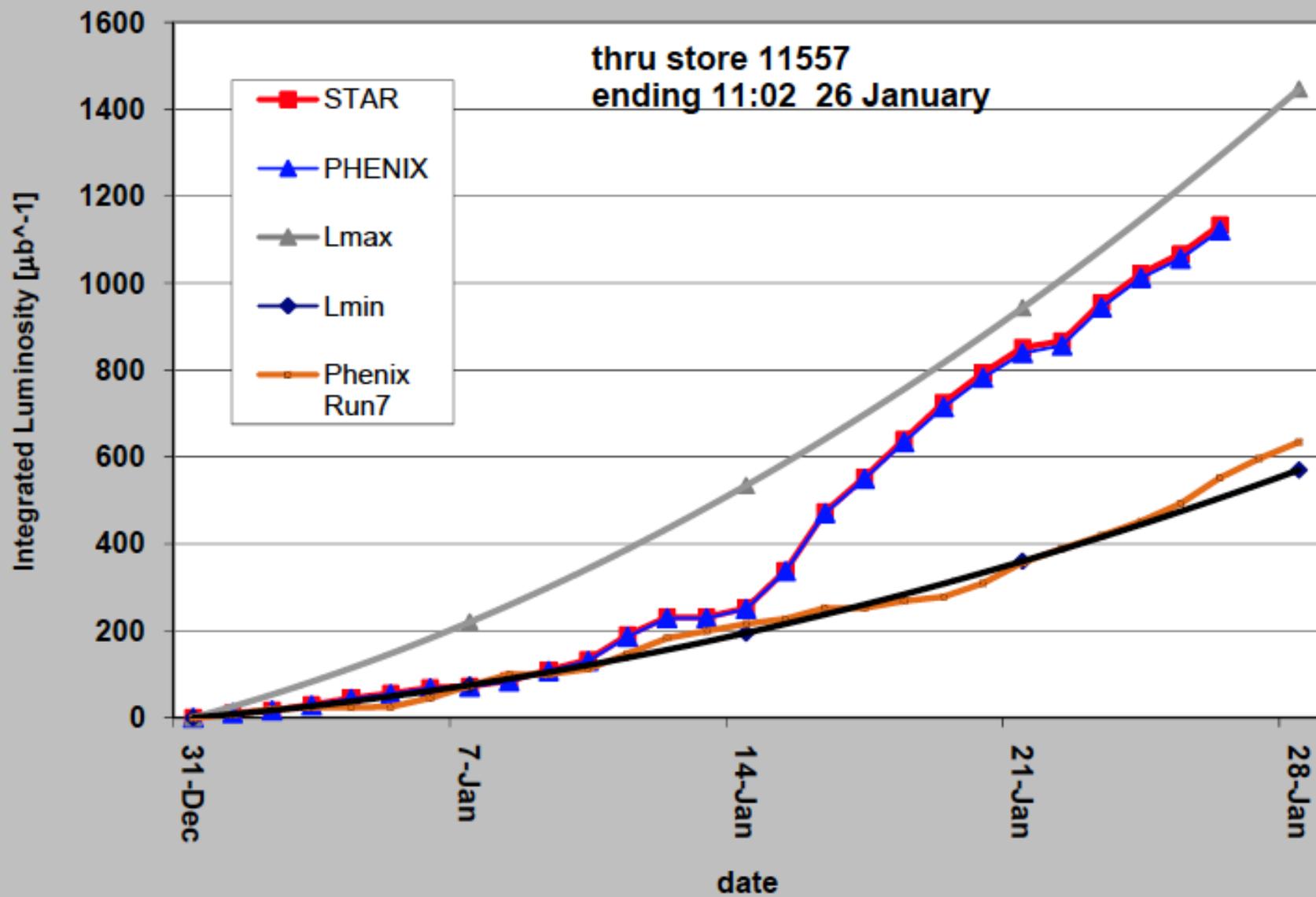


— phenixZdcCorrected — starZdcCorrected

Best Au103 (11483) and Au104 (11536) stores: PHENIX ZDC rates



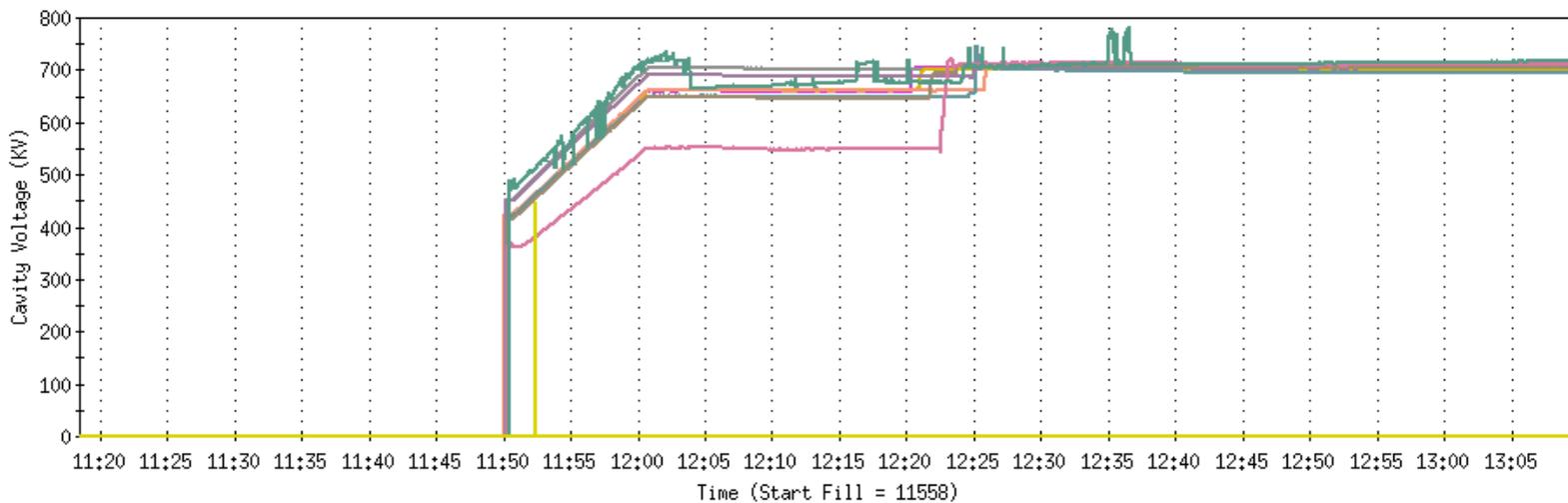
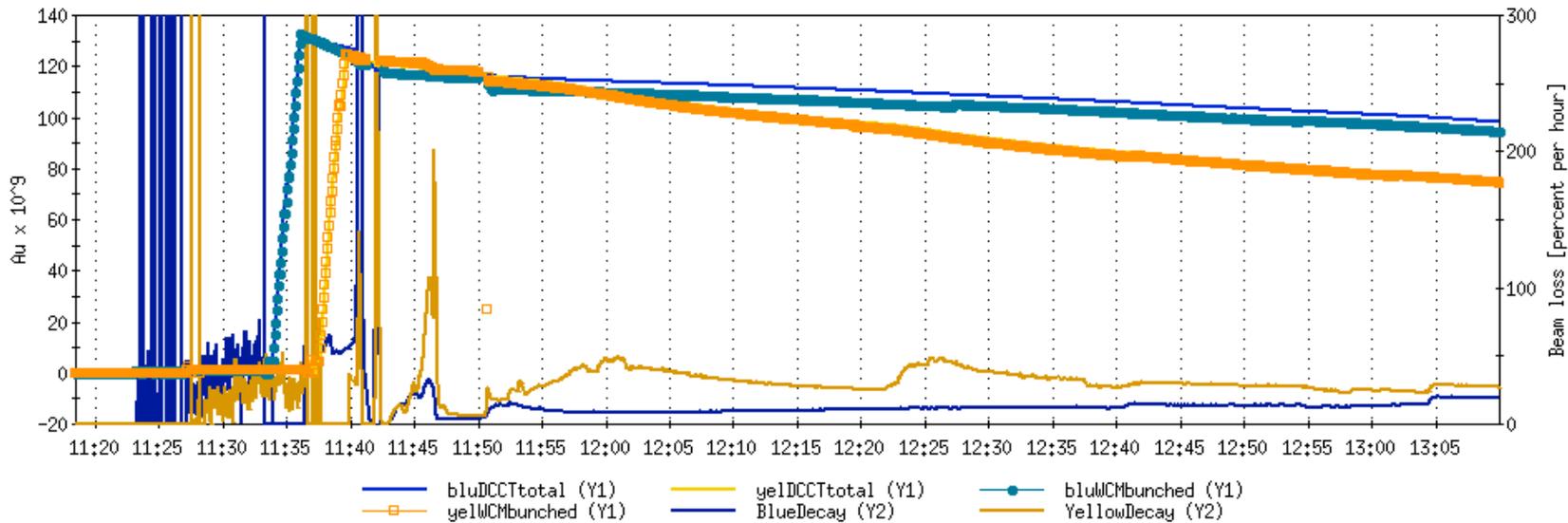
# Run10 RHIC AuAu Integrated Luminosity for Physics



# Extras

Window Markers Analysis

Beam Decay



BS1 BS2 BS3 YS1 YS2 YS3 X1 X2 X3 X4

