

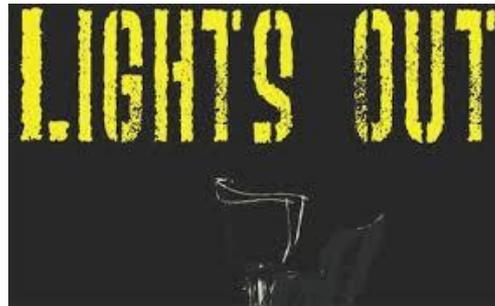
STAR Status Report

Time Meeting

March 17, 2015

Salvatore Fazio

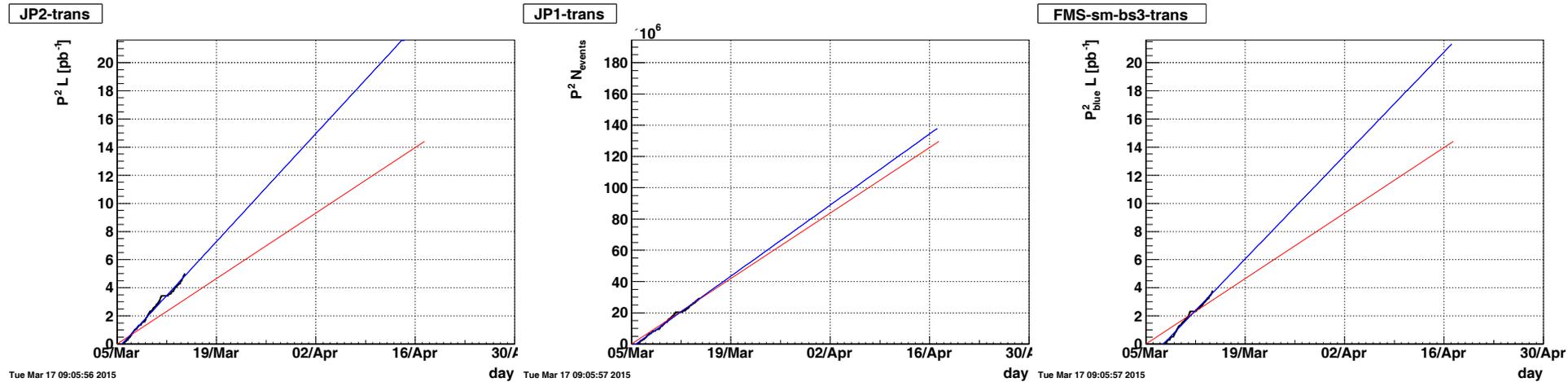
- STAR has been up and running very smoothly until Saturday's power dip, with all physics programs: Unpolarized + Transverse SPIN + PP2PP taking data
 - Most of our Transverse Spin projections indicated that goals could be met by ~ April 1st
 - New projected trends for unpolarized pp were catching up



- All STAR subsystems have now recovered after the power outage -> Ready to take data!



Projections (as before the power dip!) Transverse Spin program

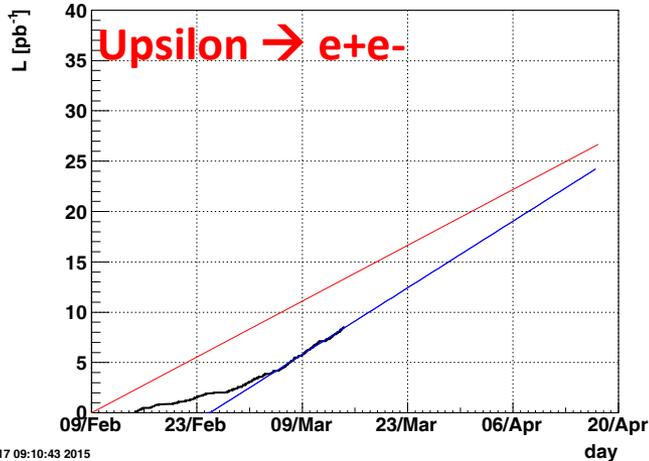


- **Transverse goals FOM account for:** $L = 40 \text{ pb}^{-1}$ and 60% polarization
- Physics case: Measure Collins asymmetries at mid-rapidity: Forward TSSAs of π^0 , direct γ using new preshower detector
- STAR would like eventually to come back to Longitudinal Polarization running
-> a proposal will be presented today at the RHIC Coordination Meeting

Projections (as before the power dip!)

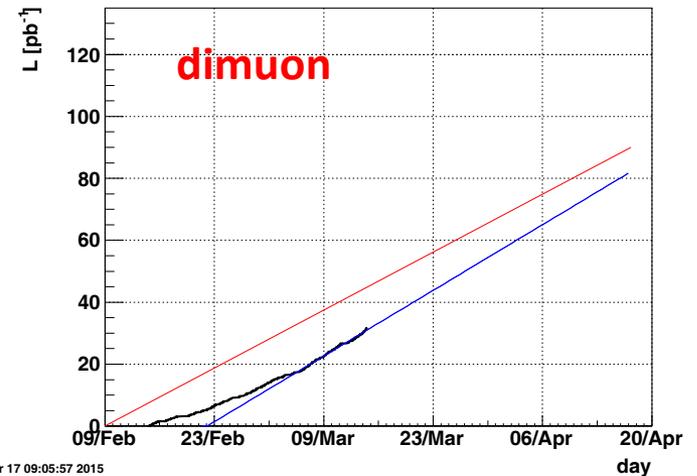
Unpolarized physics programs

BHT1*VPDMB-30_pxlist



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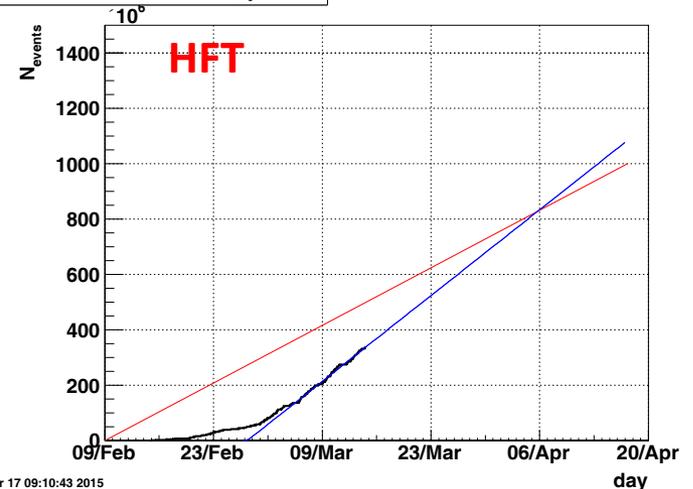


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Physics case:

- Heavy Flavor
 - Charm Using Heavy Flavor Tracker
 - Beauty using $b \rightarrow$ Upsilon \rightarrow di-leptons
- Roman Pots (pp2pp)
 - Glueball search (Central production)
 - Elastic scattering
 - Diffraction

VPDMB-5-effective-sum_pxlist



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