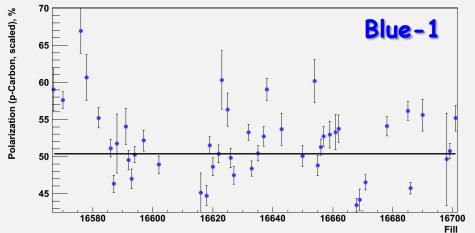
A SUMMARY ON POLARISATION IN RUN-12 FOR 255 GEV

E.C. ASCHENAUER PRESENTING THE WORK DONE BY ALAN, ANDERS, BILL AND DIMA



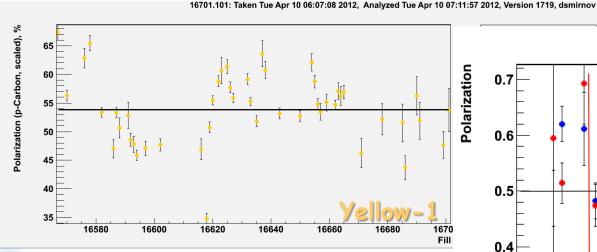
a passion for discovery

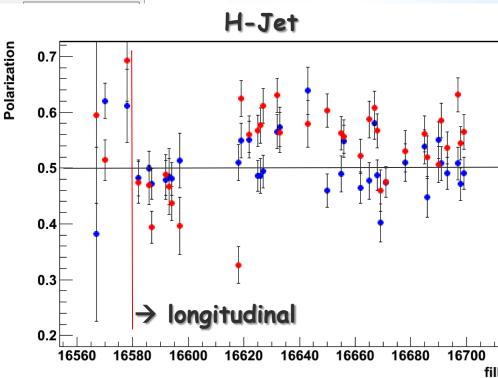




hPolarPCScaledVsFill_B1U_255		
Entries	47	
Mean	1.663e+04	
RMS	38	
χ² / ndf	418.6 / 46	
Prob	0	
p0	$\textbf{50.38} \pm \textbf{0.20}$	

polarisation at flat top Blue and Yellow

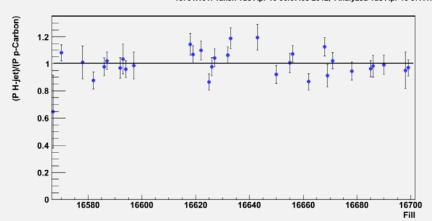




Brookhaven Science Associates E.C. Aschenguer

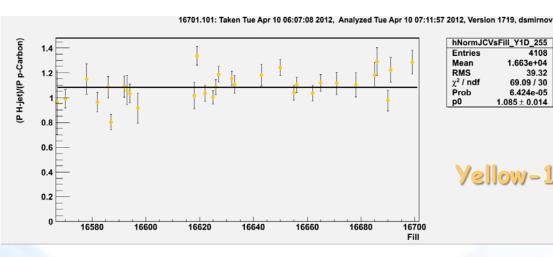
NORMALIZATION TO H-JET

16701.101: Taken Tue Apr 10 06:07:08 2012, Analyzed Tue Apr 10 07:11:57 2012, Version 1719, dsmirno



hNormJCVsFill_B1U_255	
Entries	4045
Mean	1.663e+04
RMS	38.96
χ² / ndf	45.74 / 31
Prob	0.04277
p0	1.003 ± 0.012

Blue-1: in good agreement with jet without normalisation



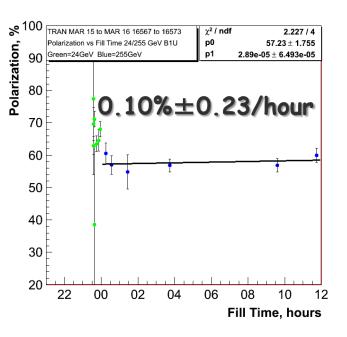
hNormJCVsFill_Y1D_255	
Entries	4108
Mean	1.663e+04
RMS	39.32
χ² / ndf	69.09 / 30
Prob	6.424e-05
p0	1.085 ± 0.014

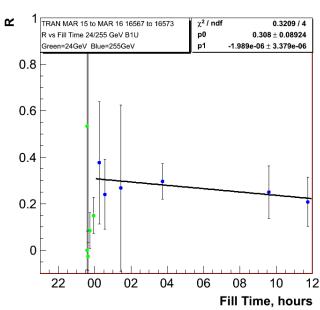
Yellow-1: normalized by 1.03

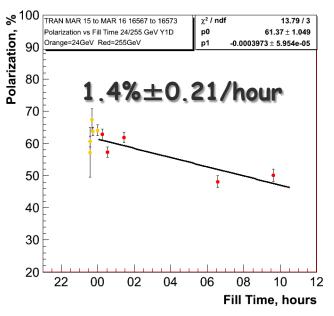
All measurements online and offline are normalized to jet now CDEV was reloaded with new offline numbers



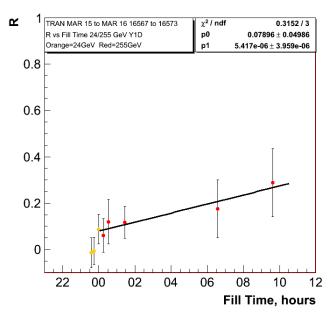
255 GEV RESULTS TRANSVERSE FILLS



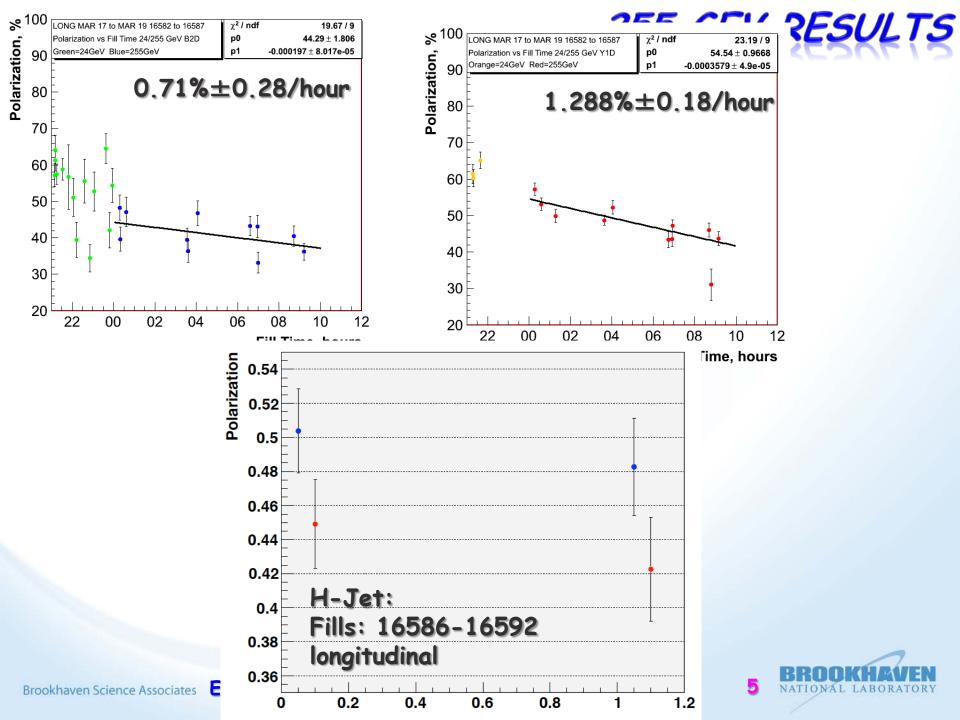


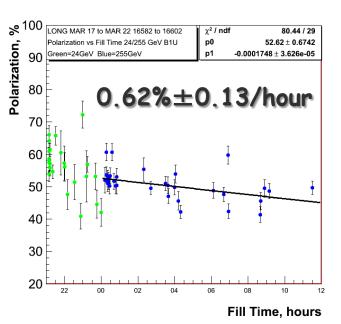


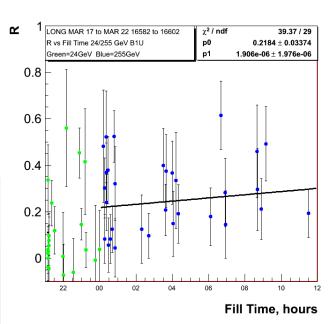


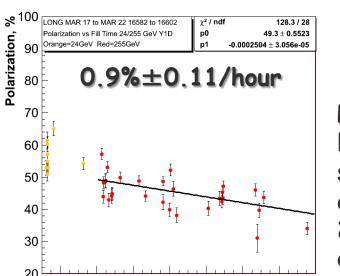




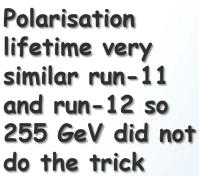


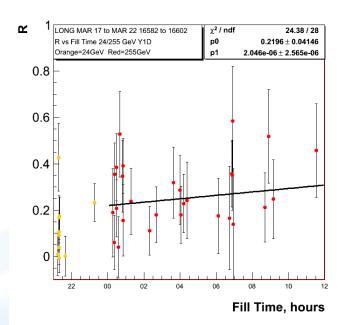




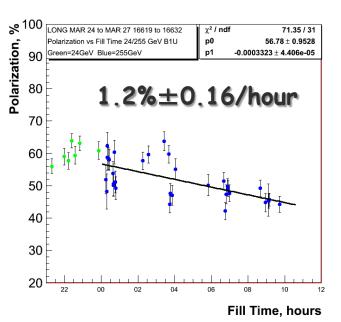


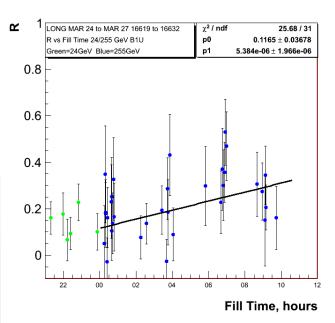
Fill Time, hours

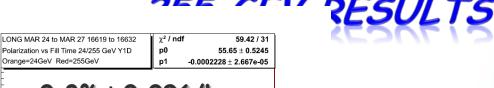




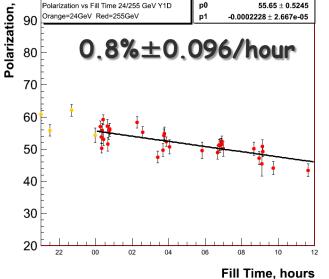


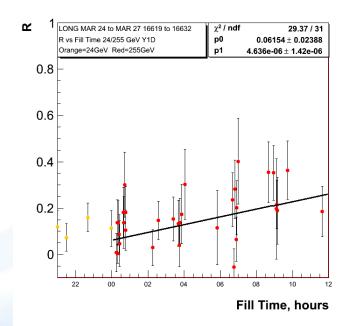




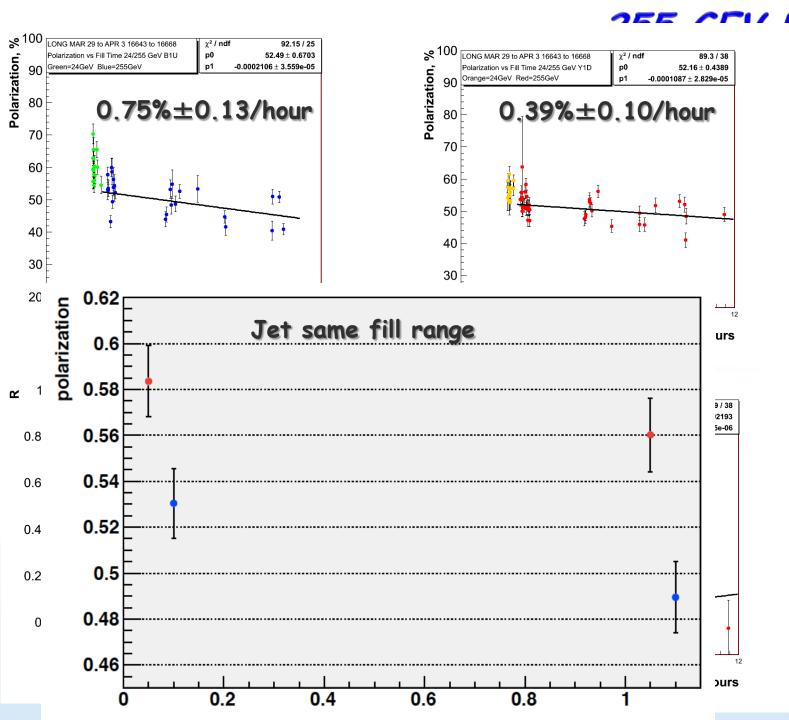


Polarisation Lifetime for low Emittance fills

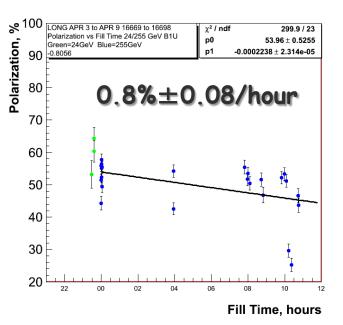


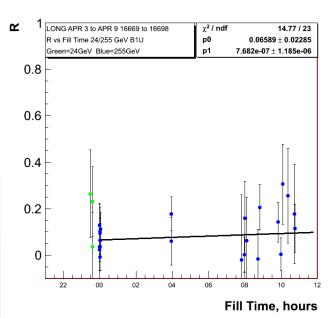






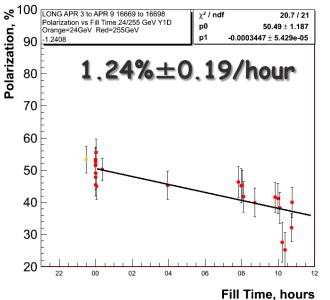


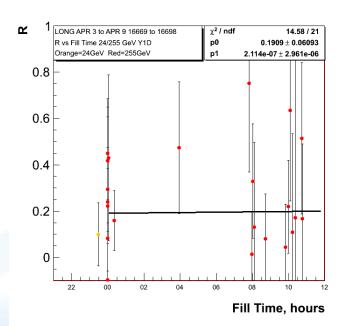






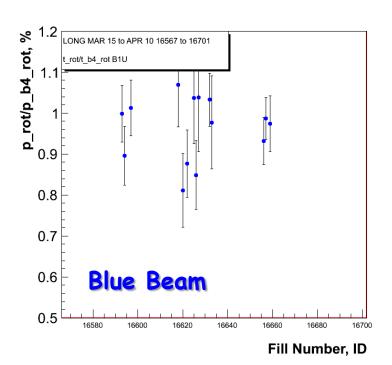




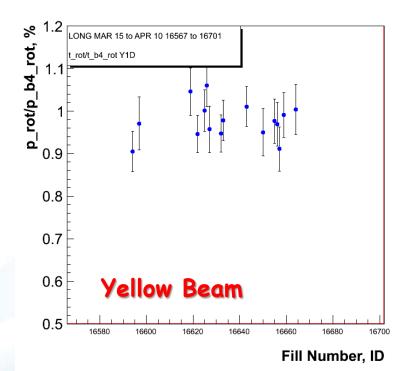




POLARISATION LOSS THROUGH ROTATOR RAMP



Shown is the ratio of the polarisation measurements before and after the rotator ramp at 255 GeV



10



- Reinstall new target in Blue and Yellow on Wednesday
- Work on RHIC AGS injection measurement comparisons and loss on the ramp
- After that should go back to normal measurement routine
 - measure at injection
 - before and after rotator ramp
 - > in the middle of the fill <- only this impacts PHENIX
 - > at the end of the fill
- Have a scheme how to provide to the experiments a polarisation, which allows to calculate for each trigger the correct luminosity weighted, polarisation profile corrected and to the jet normalized value
 - > might apply it also 2011 data and
 - investigate it for 2009 100 GeV

