

*A SUMMARY ON POLARISATION IN RUN-12
FOR 255 GEV*

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

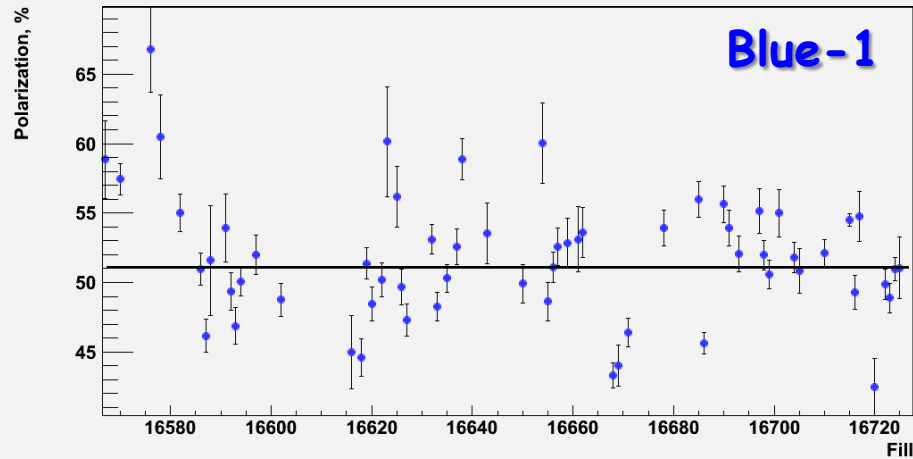
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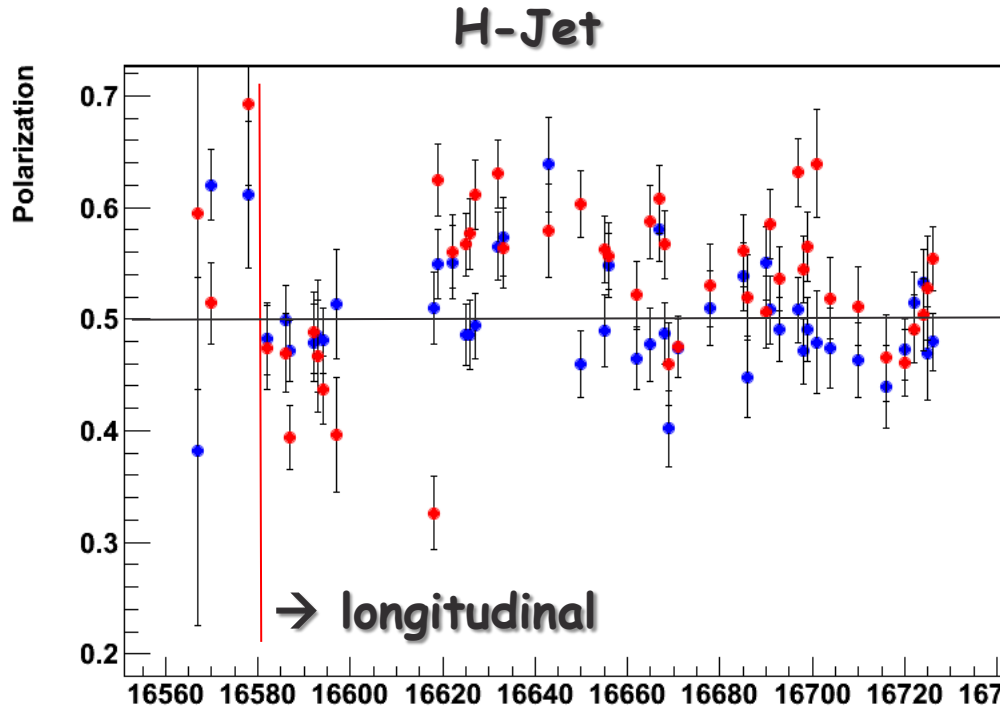
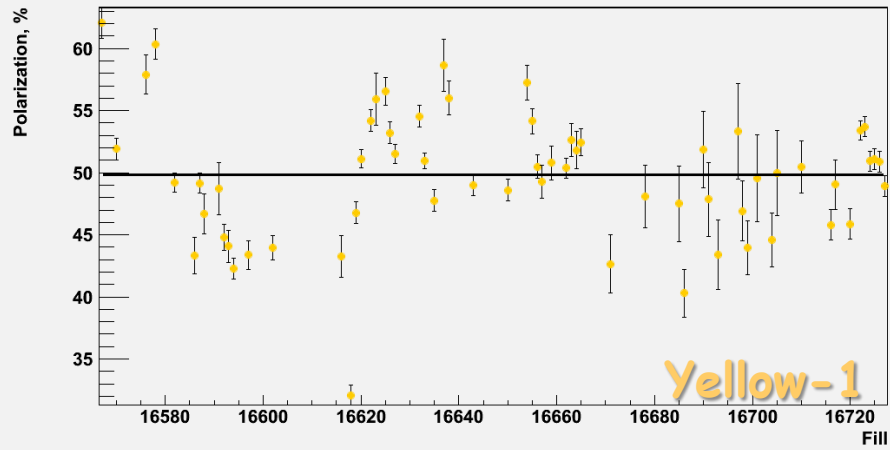
U.S. DEPARTMENT OF
ENERGY

Office of
Science



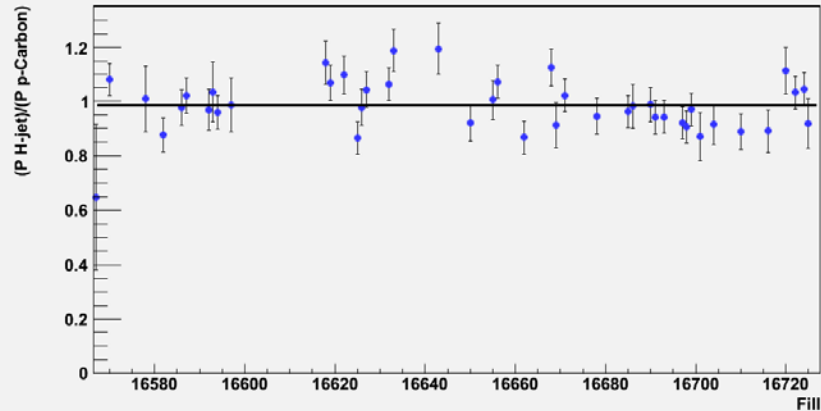
hPolarVsFill_B1U_255	
Entries	204
Mean	1.665e+04
RMS	47.56
χ^2 / ndf	552 / 60
Prob	0
p0	51.08 ± 0.16

polarisation at flat top
Blue and Yellow



NORMALIZATION TO H-JET

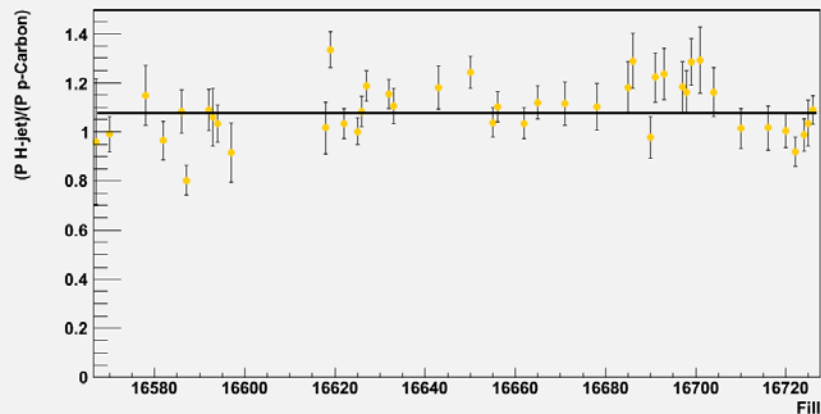
16727.304: Taken Mon Apr 16 14:27:36 2012, Analyzed Mon Apr 16 15:27:12 2012, Version 1719, dsmirnov



hNormJCVsFill_B1U_255	
Entries	6104
Mean	1.665e+04
RMS	47.59
χ^2 / ndf	62.1 / 42
Prob	0.02346
p0	0.9877 ± 0.0105

Blue-1: in good agreement with jet without normalisation

16727.304: Taken Mon Apr 16 14:27:36 2012, Analyzed Mon Apr 16 15:27:12 2012, Version 1719, dsmirnov



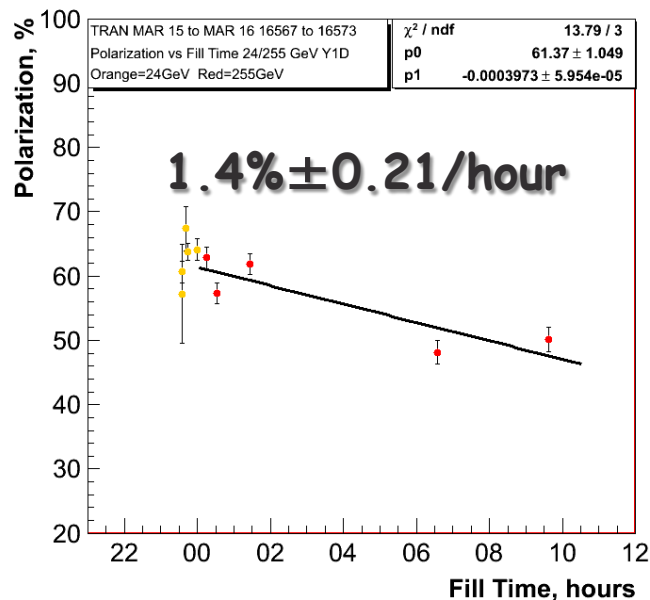
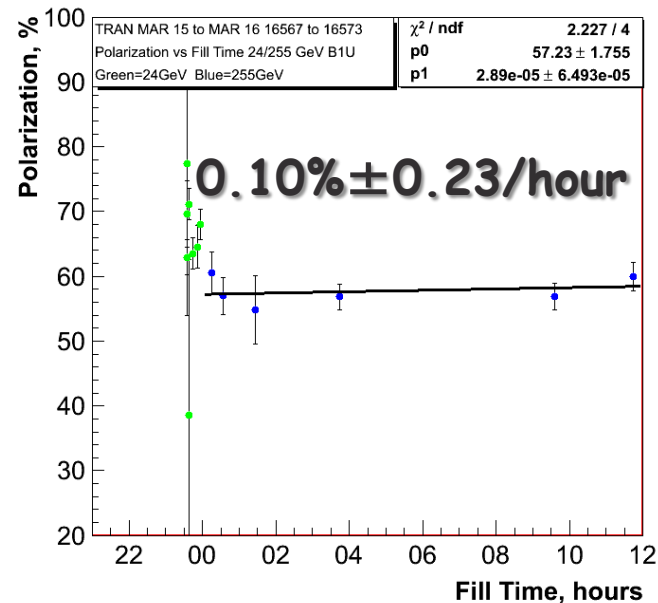
hNormJCVsFill_Y1D_255	
Entries	5874
Mean	1.666e+04
RMS	48.33
χ^2 / ndf	88.42 / 42
Prob	3.744e-05
p0	1.077 ± 0.012

Yellow-1: normalized by 1.08

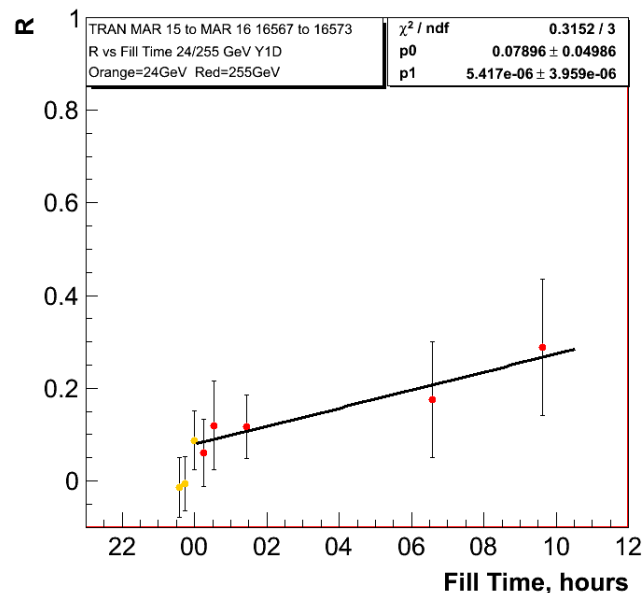
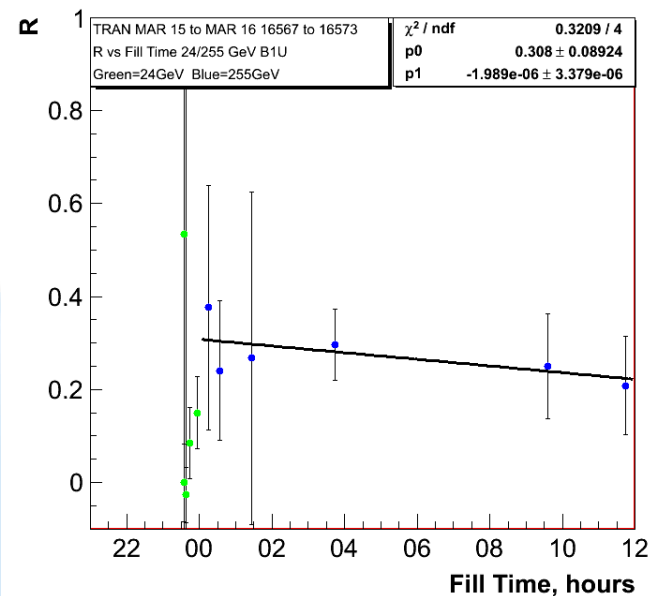
All measurements online and offline are normalized to jet now since already more than a week

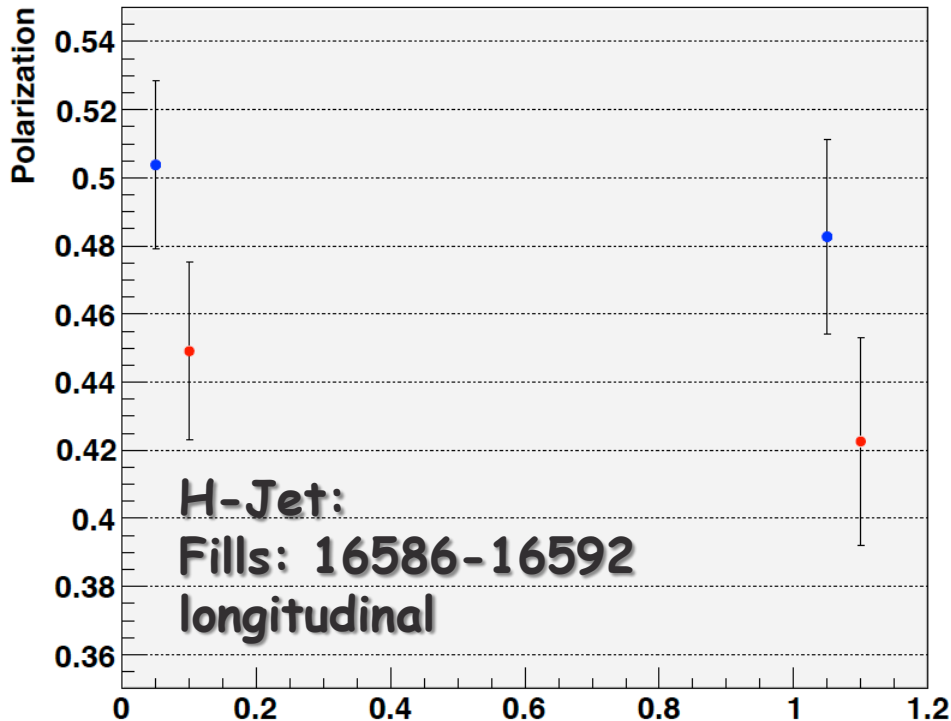
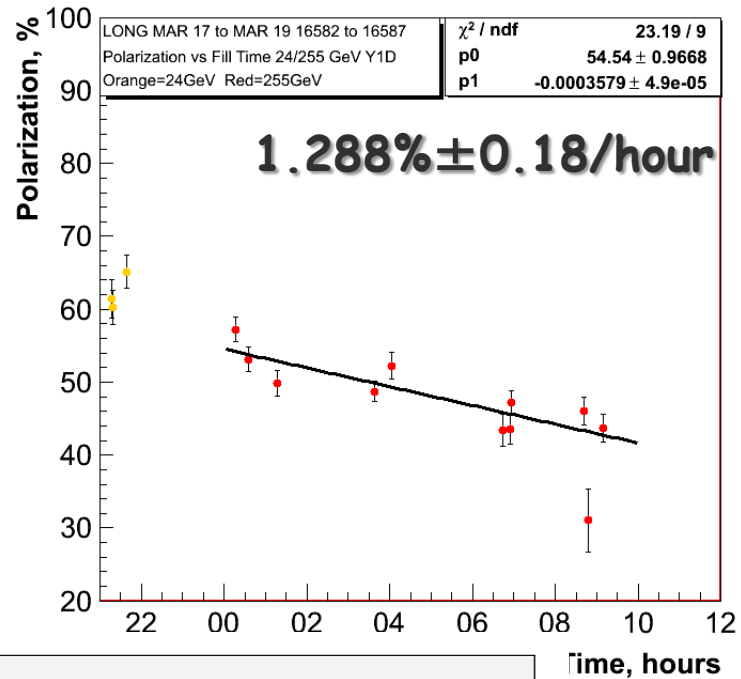
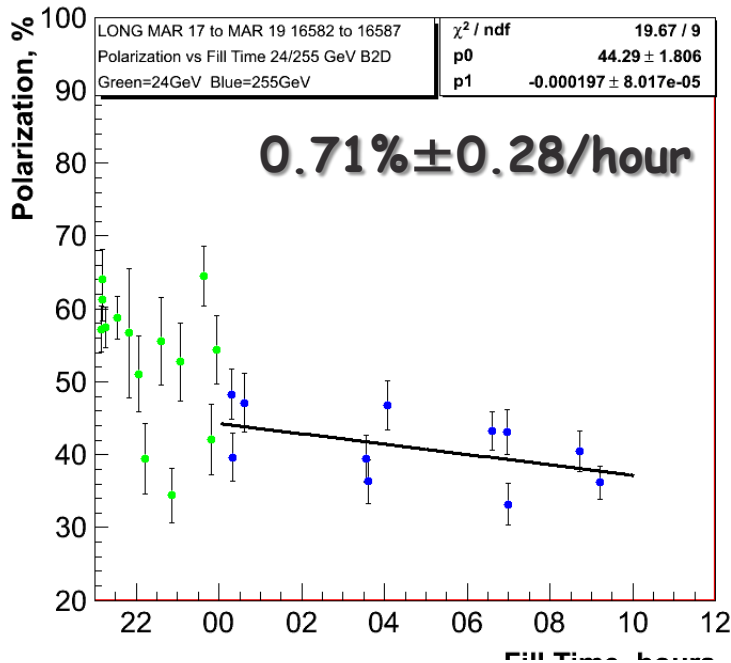
CDEV was reloaded with new offline numbers

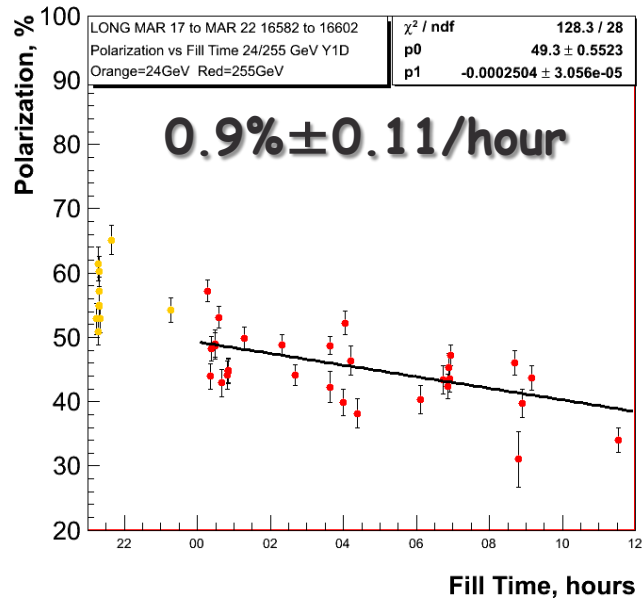
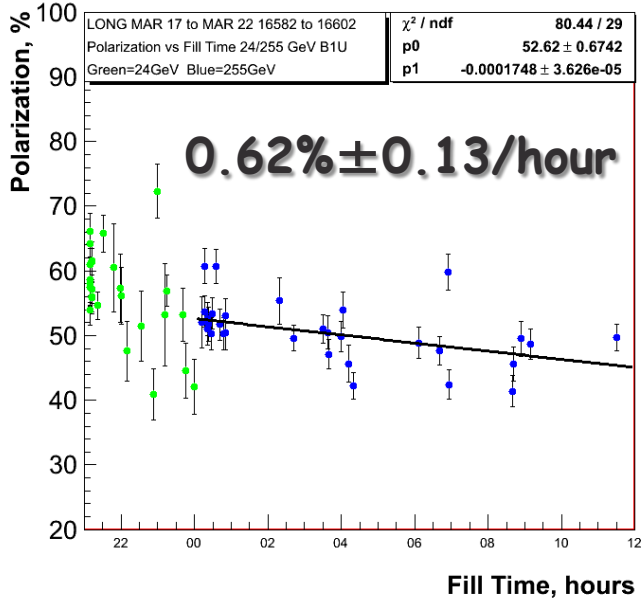
255 GEV RESULTS TRANSVERSE FILLS



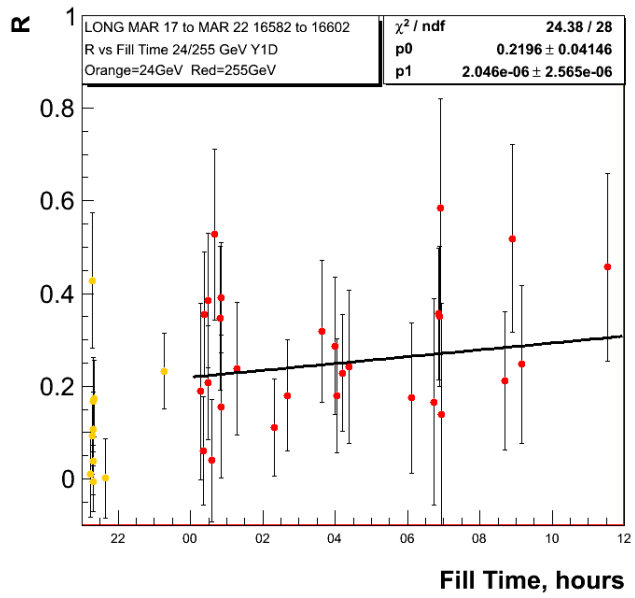
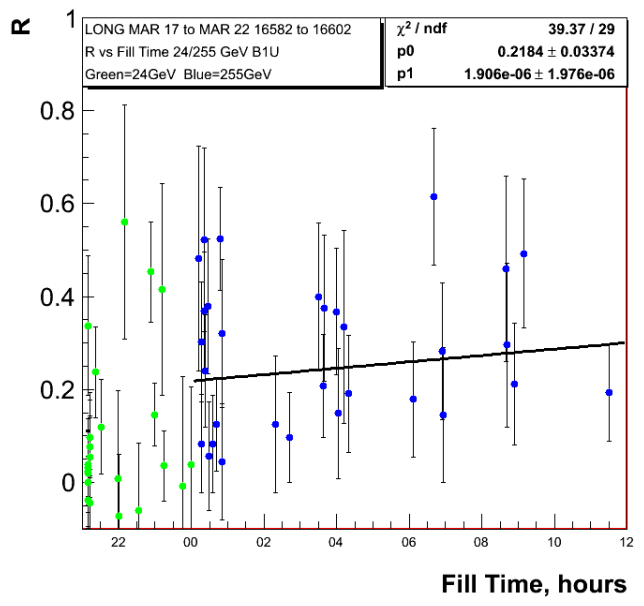
Polarisation lifetime in yellow very similar to longitudinal 255 GeV fills

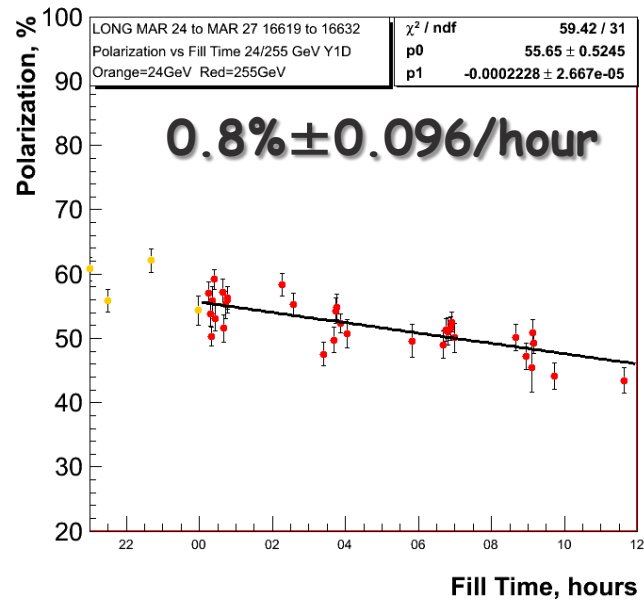
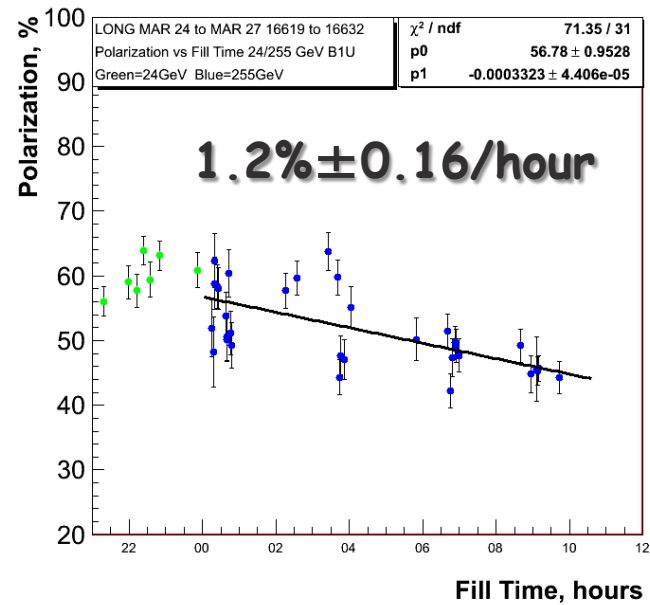




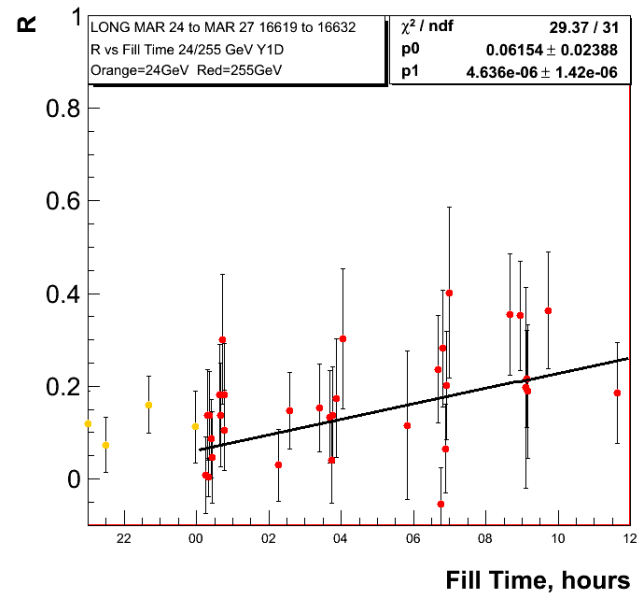
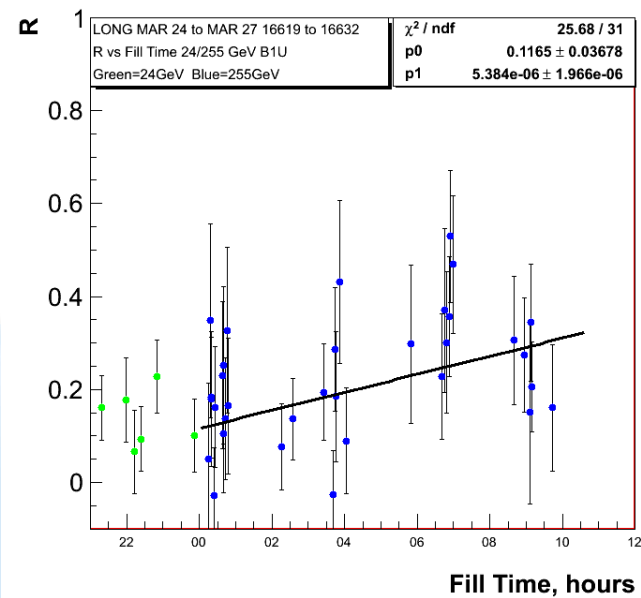


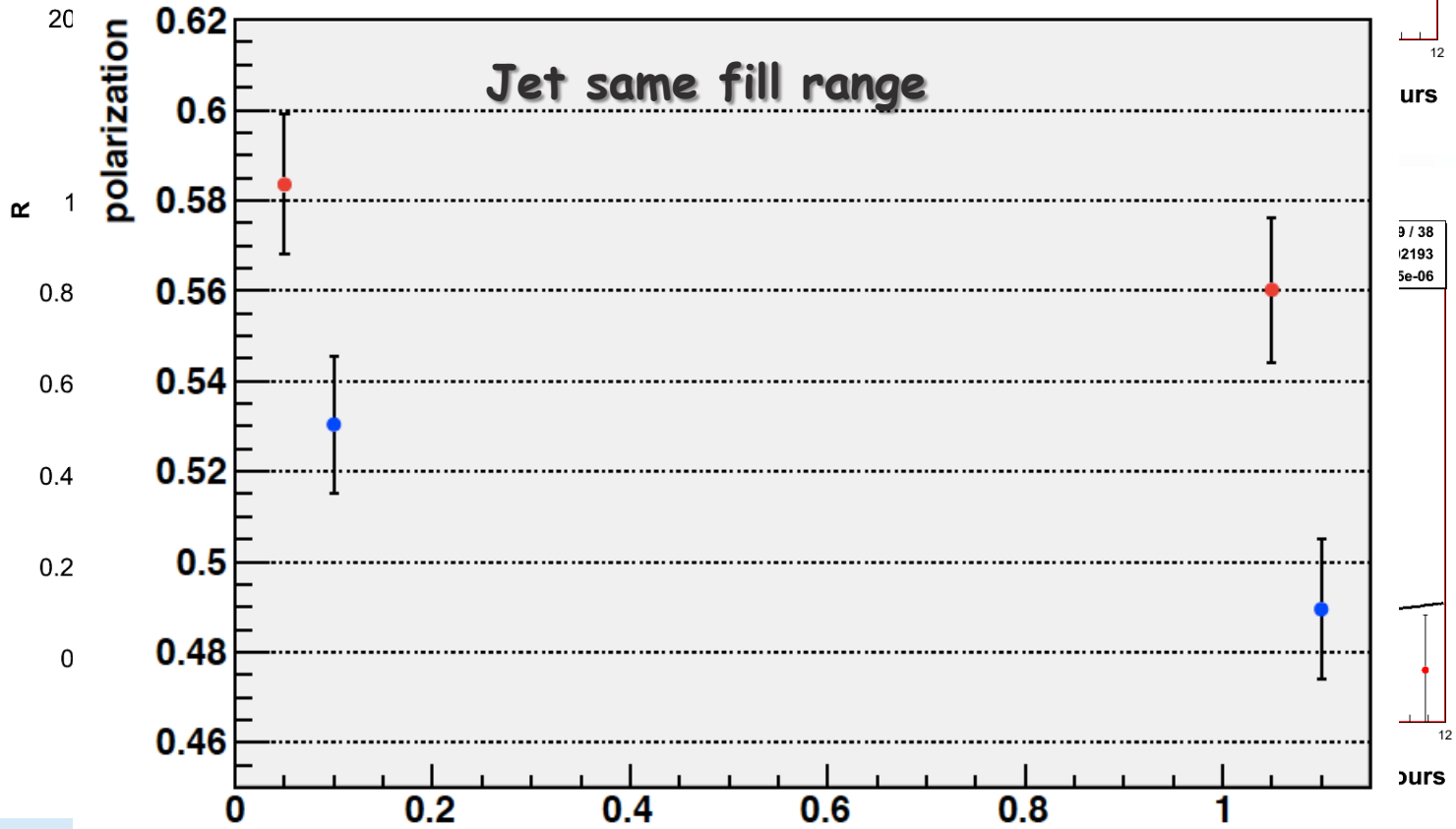
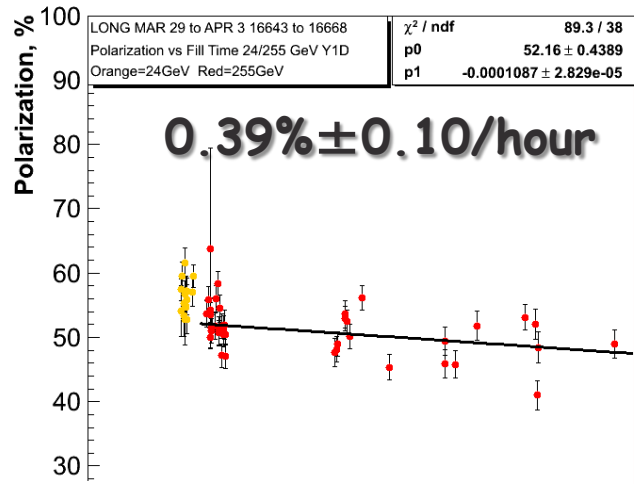
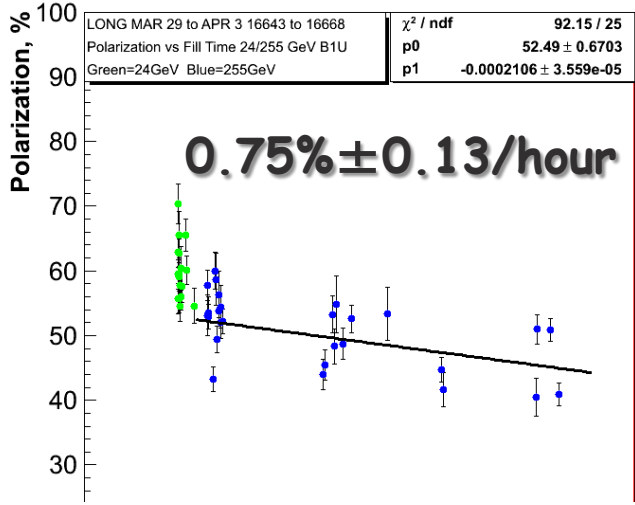
Polarisation lifetime very similar run-11 and run-12 so 255 GeV did not do the trick

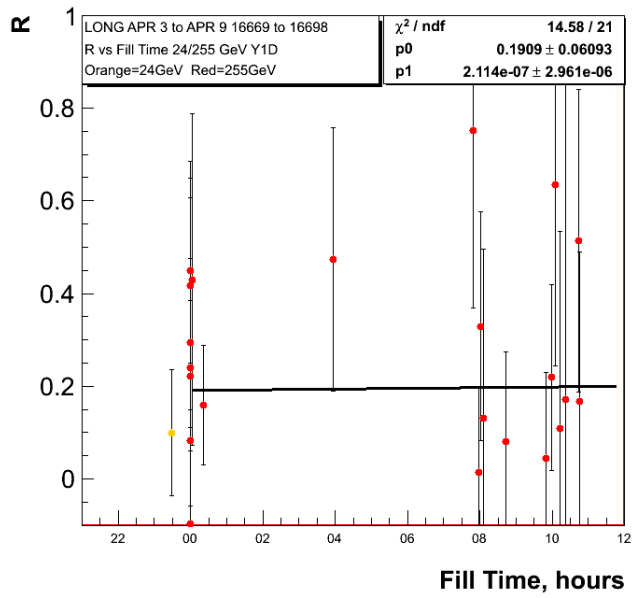
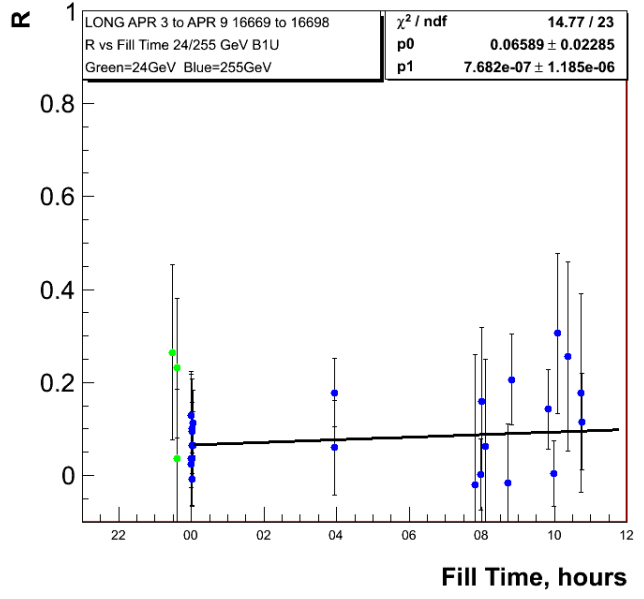
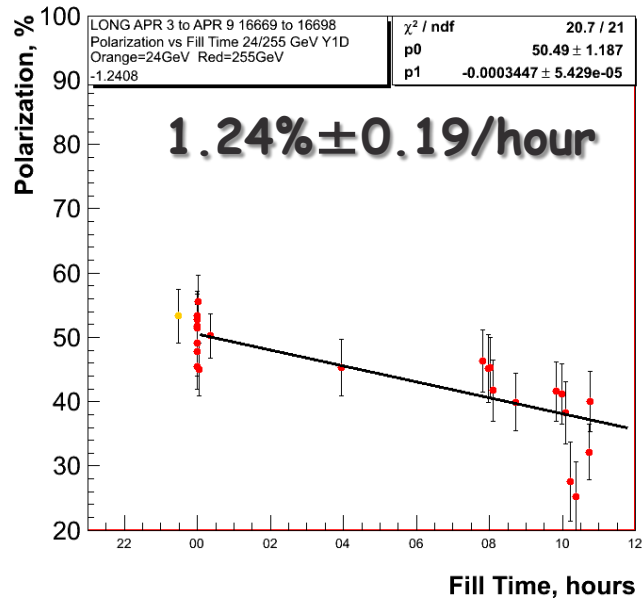
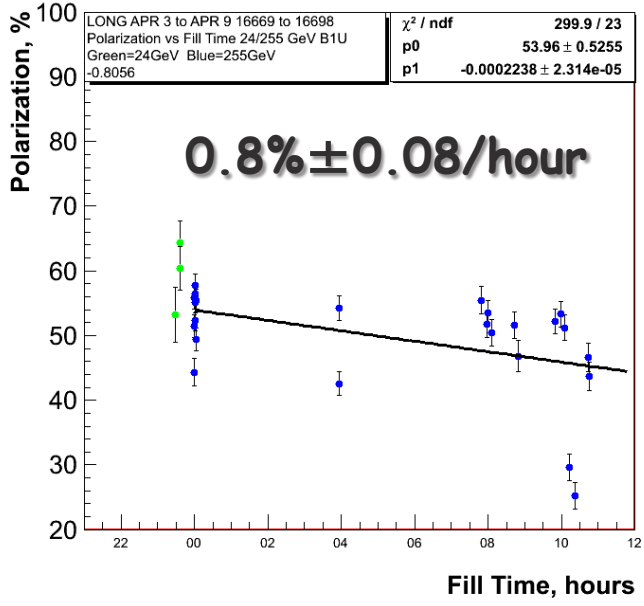




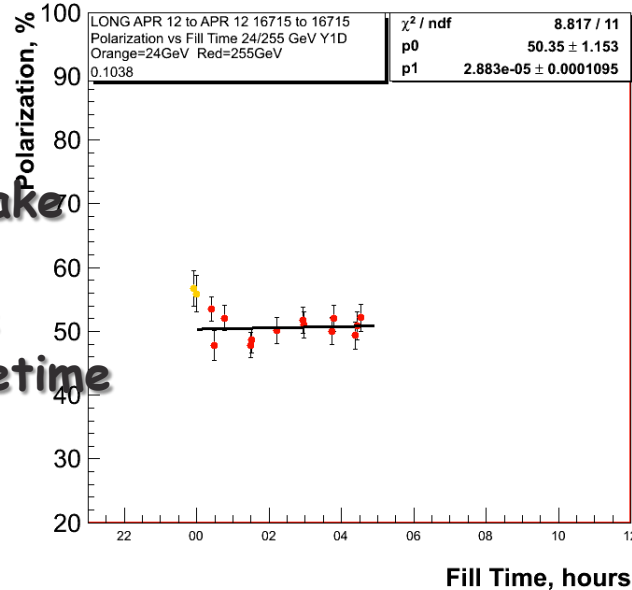
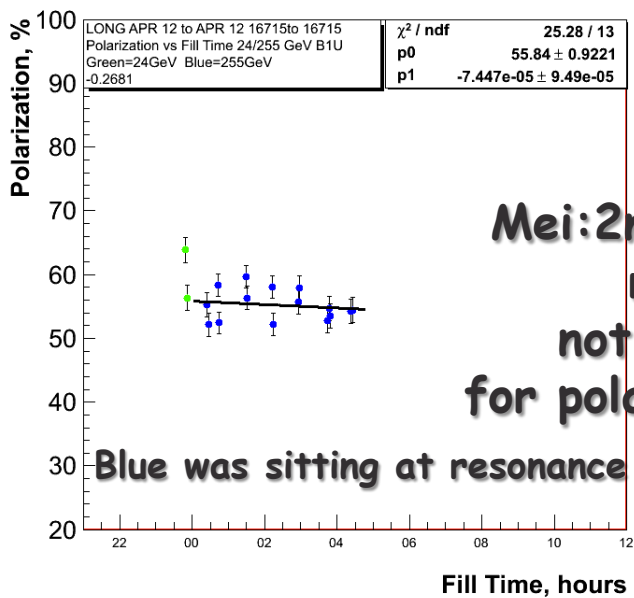
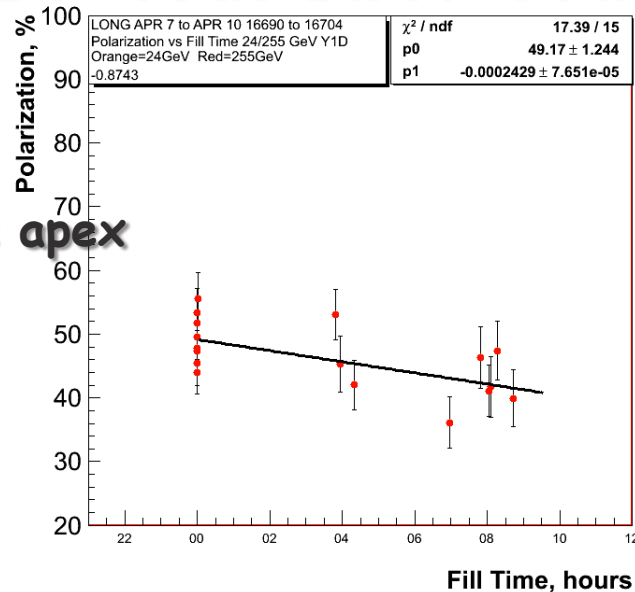
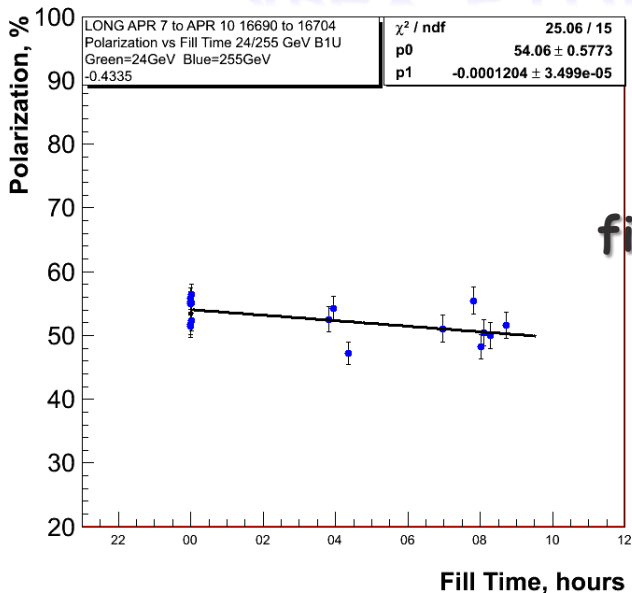
**Polarisation
Lifetime for low
Emittance fills**

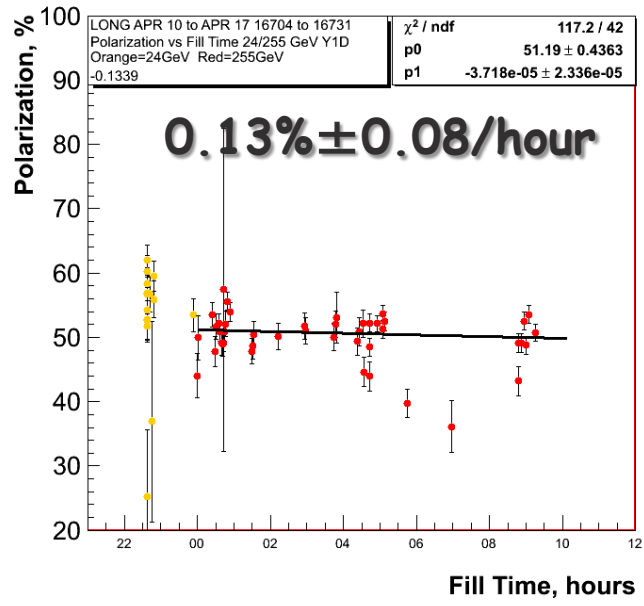
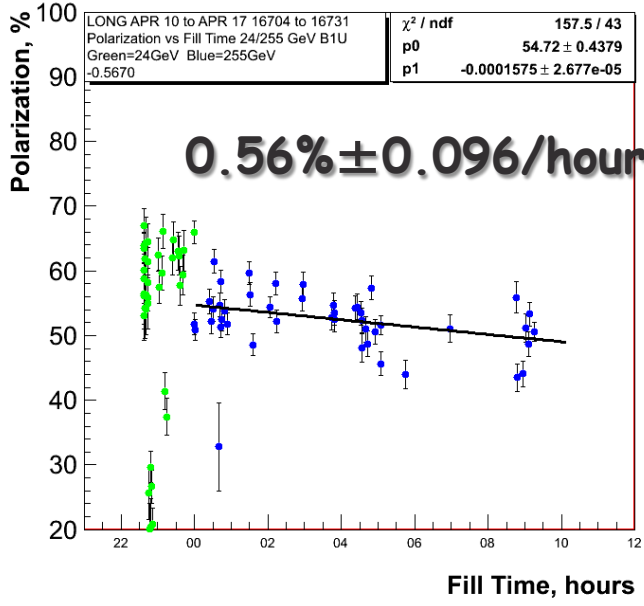




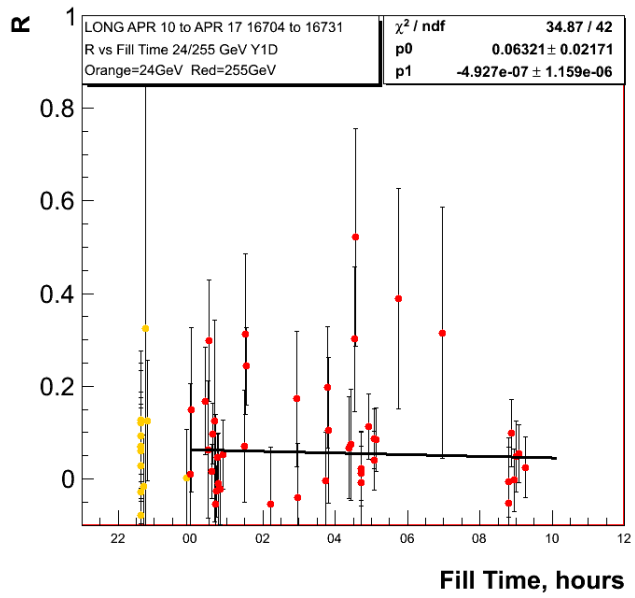
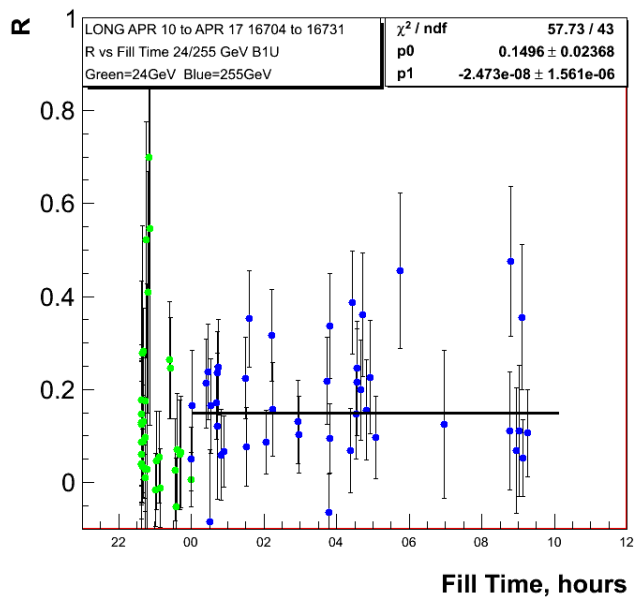


APEX STUDY FLAT TOP NOT COLLIDING

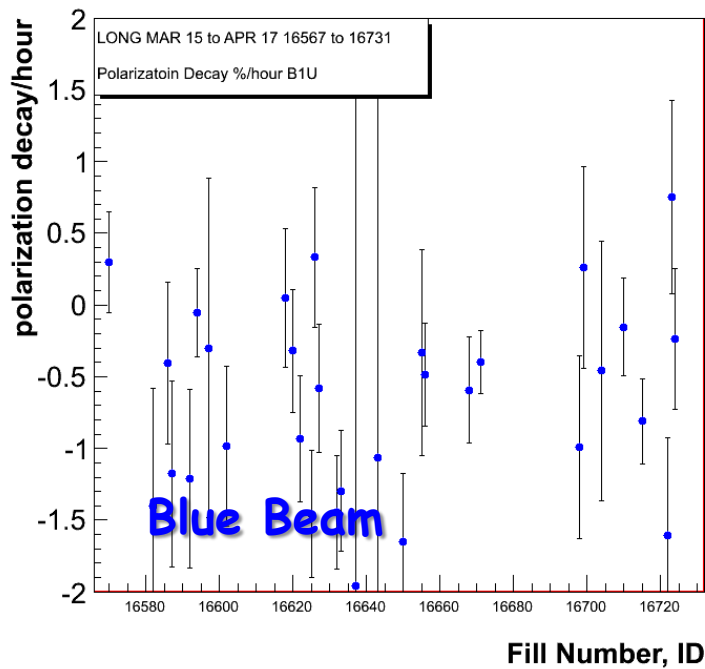




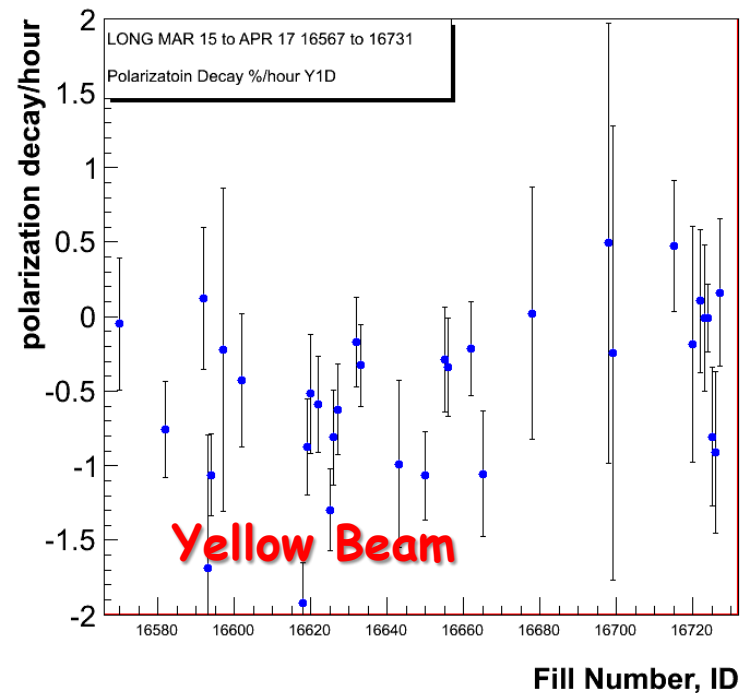
Polarisation Lifetime since last week



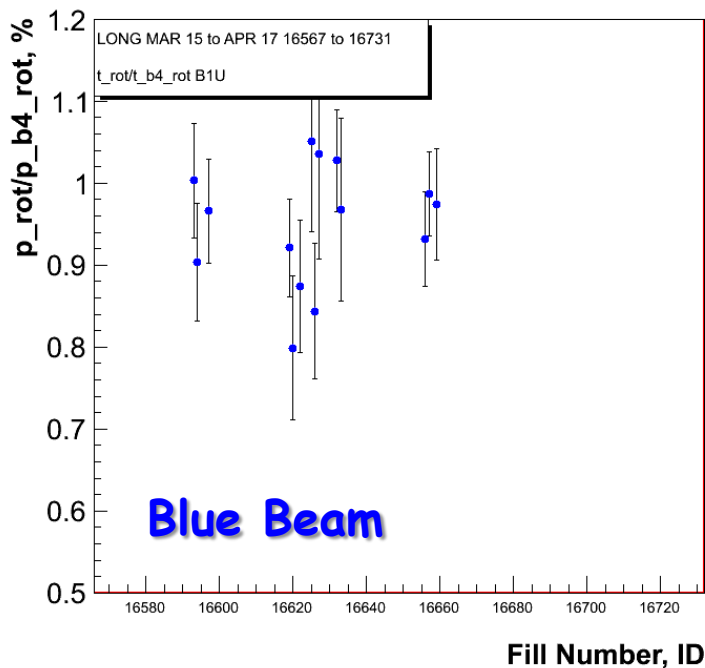
POLARISATION DECAY PER FILL



Shown is the polarisation decay per fill taking the measurements after the rotator ramp at 255 GeV



POLARISATION LOSS THROUGH ROTATOR RAMP



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

