

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

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PRESENTING THE WORK DONE BY ALAN,
ANDERS, BILL AND DIMA*

BROOKHAVEN
NATIONAL LABORATORY

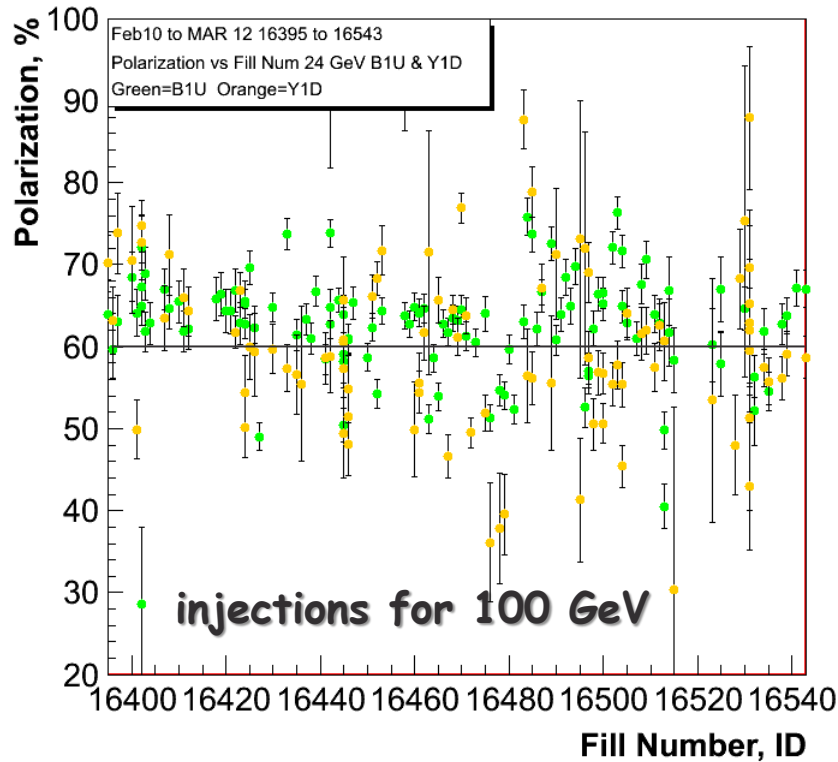
a passion for discovery



U.S. DEPARTMENT OF
ENERGY

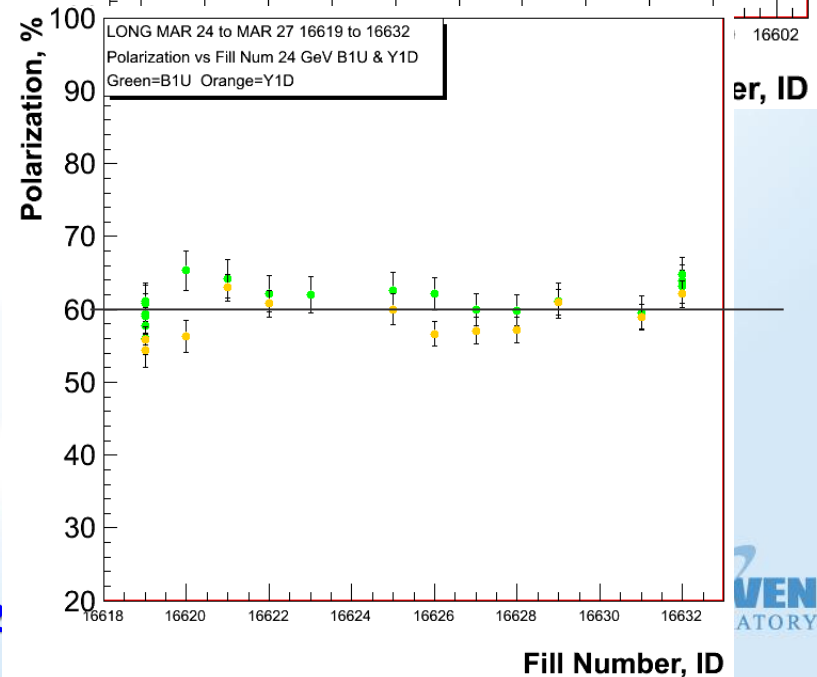
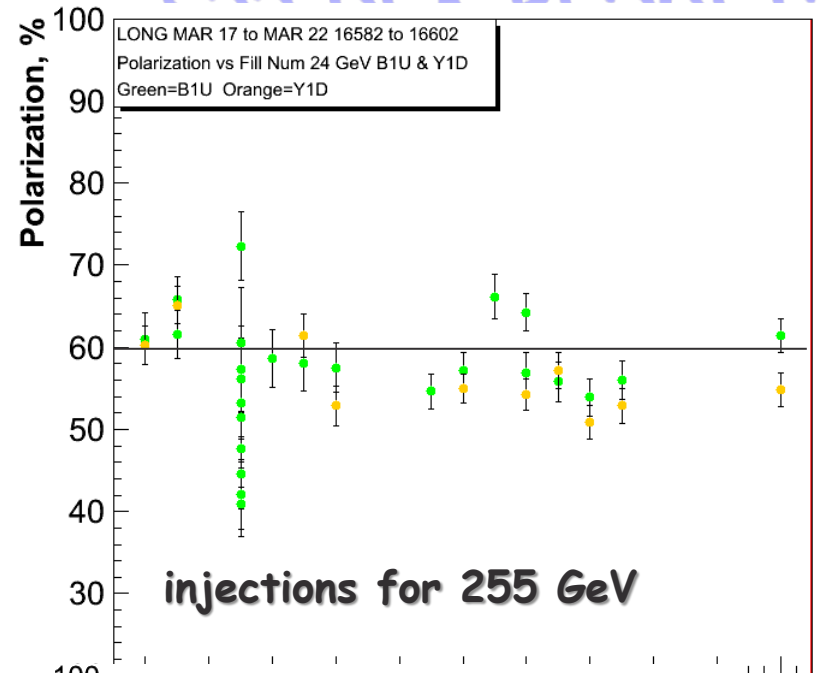
Office of
Science

255 GEV RESULTS



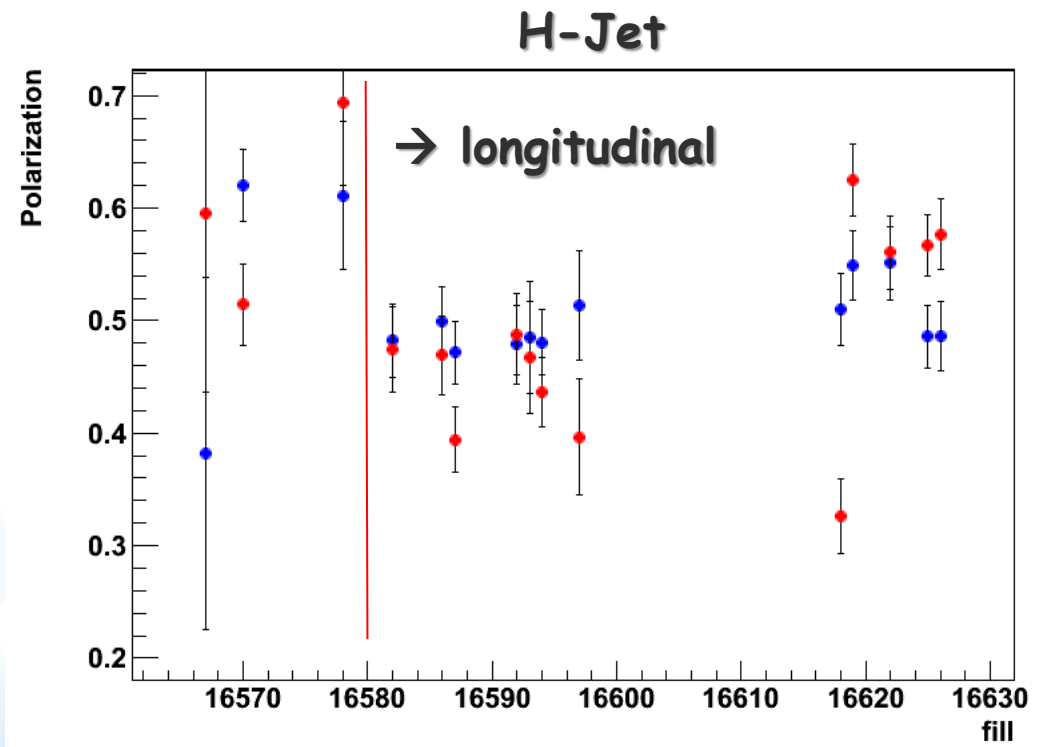
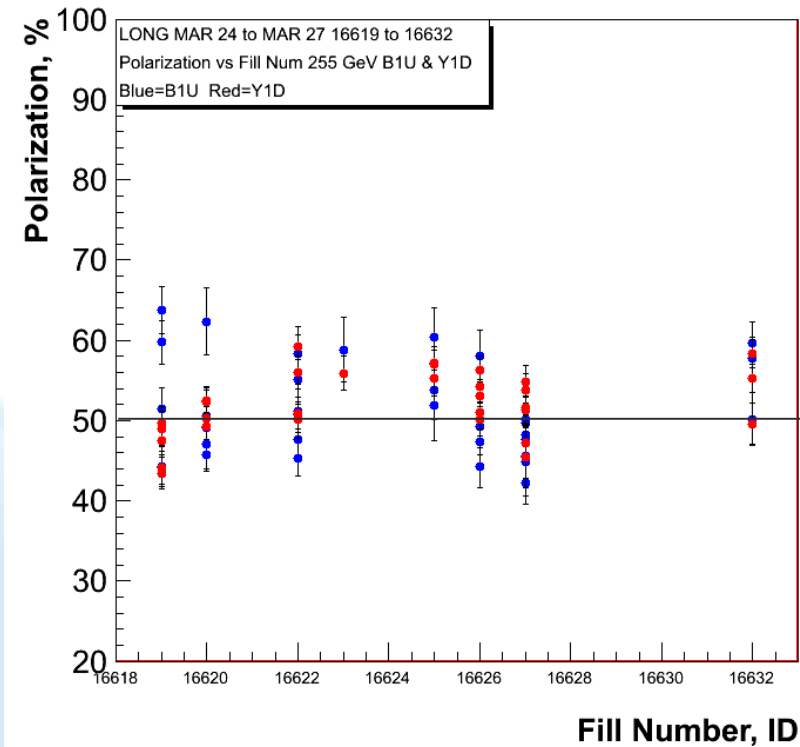
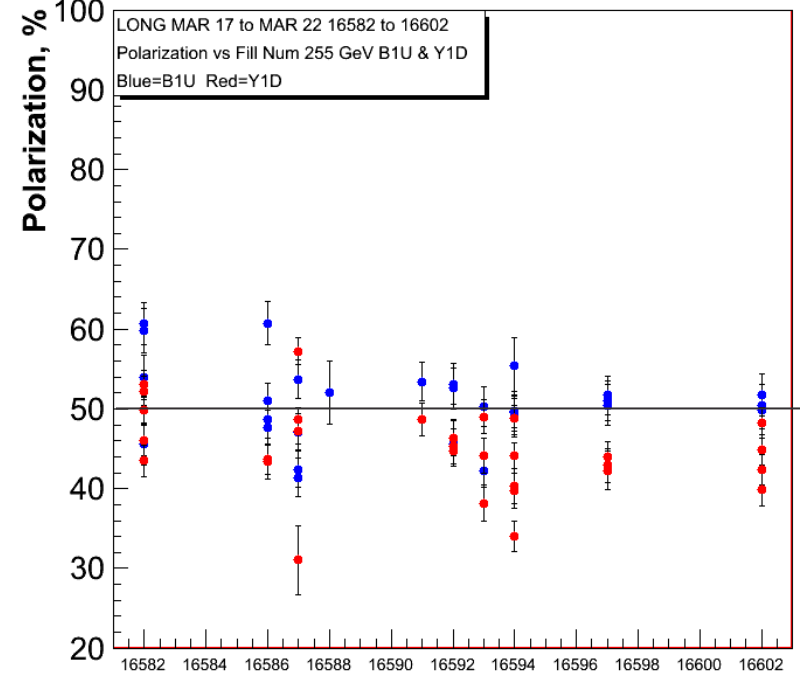
polarisation at injection
Blue and Yellow

Caveat:
pC numbers not normalized
to jet

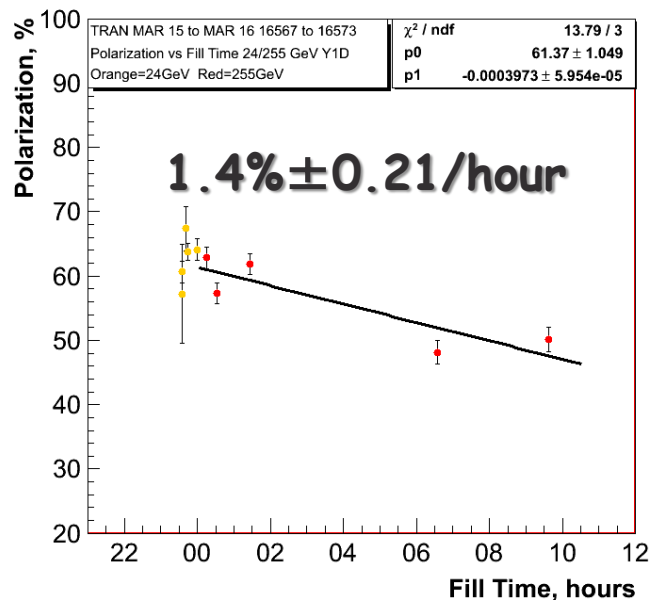
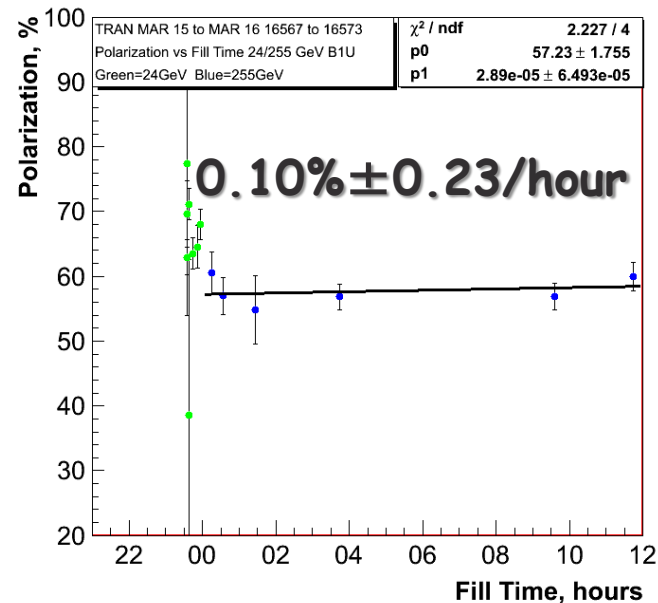


255 GEV RESULTS

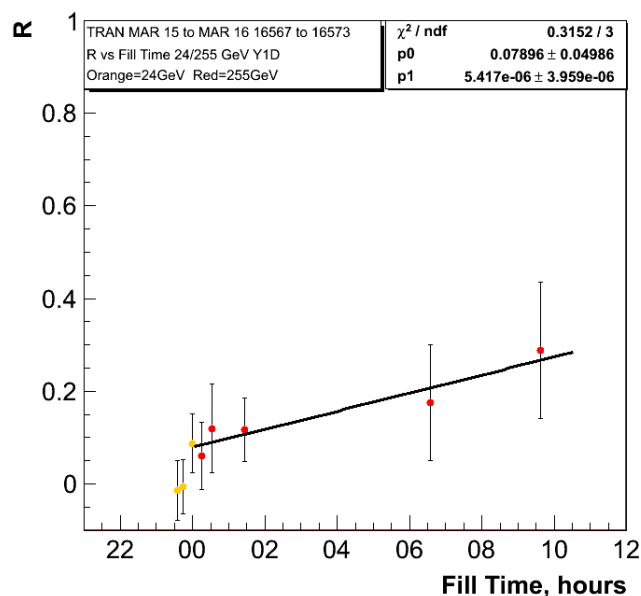
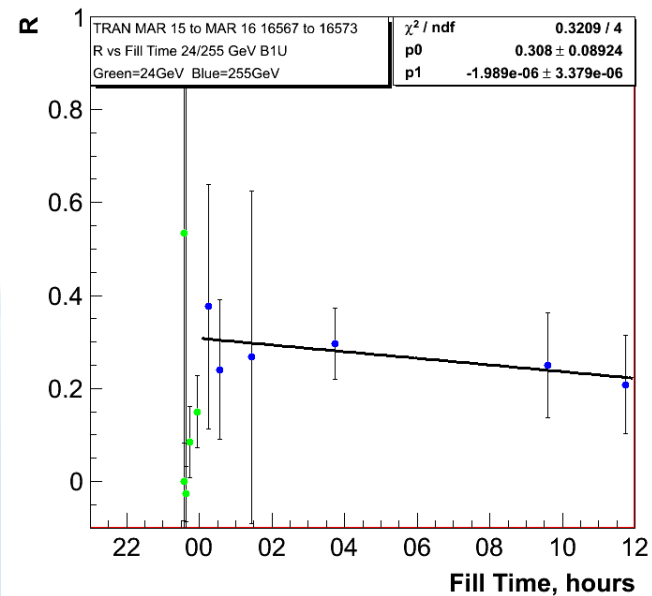
polarisation at flat top
Blue and Yellow

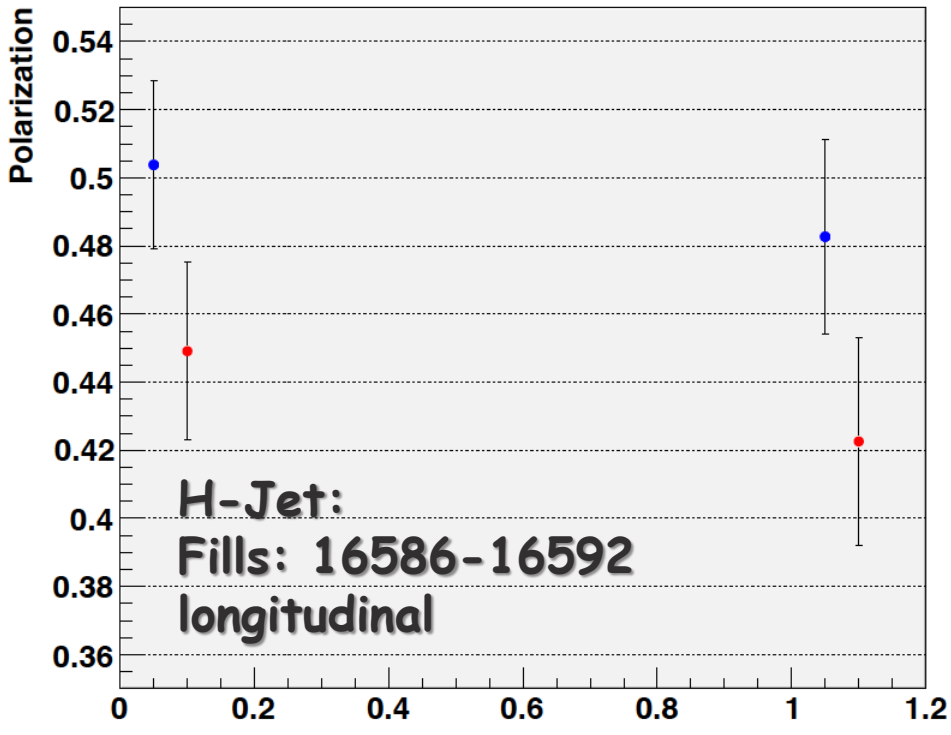
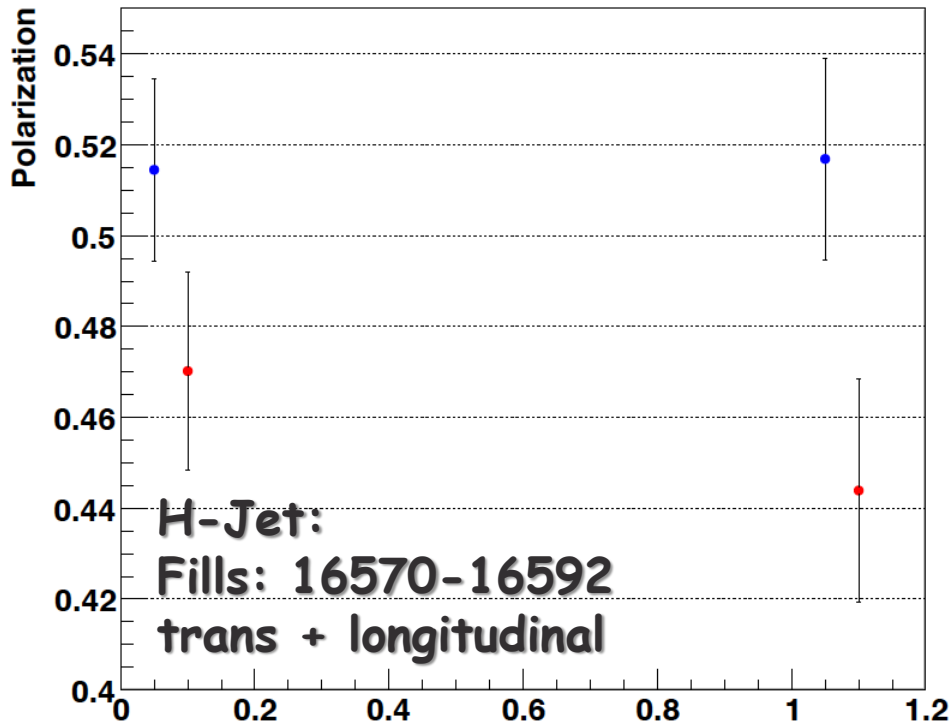
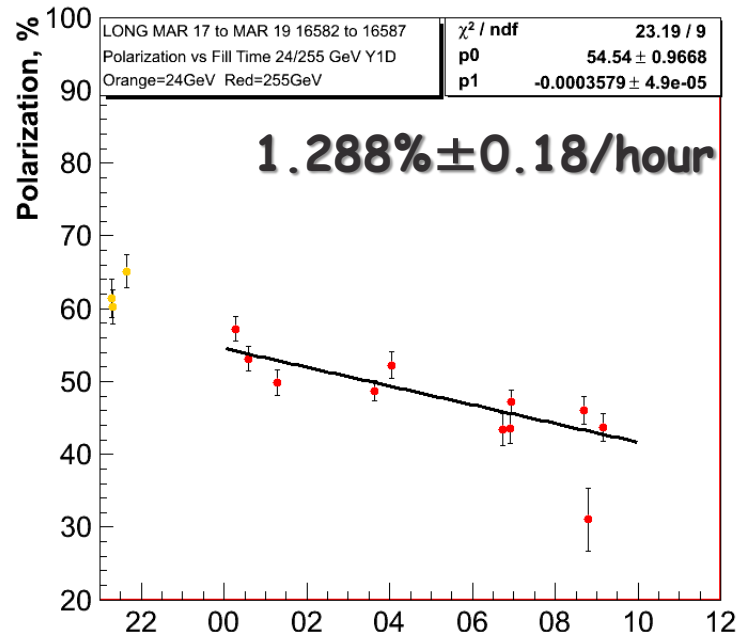
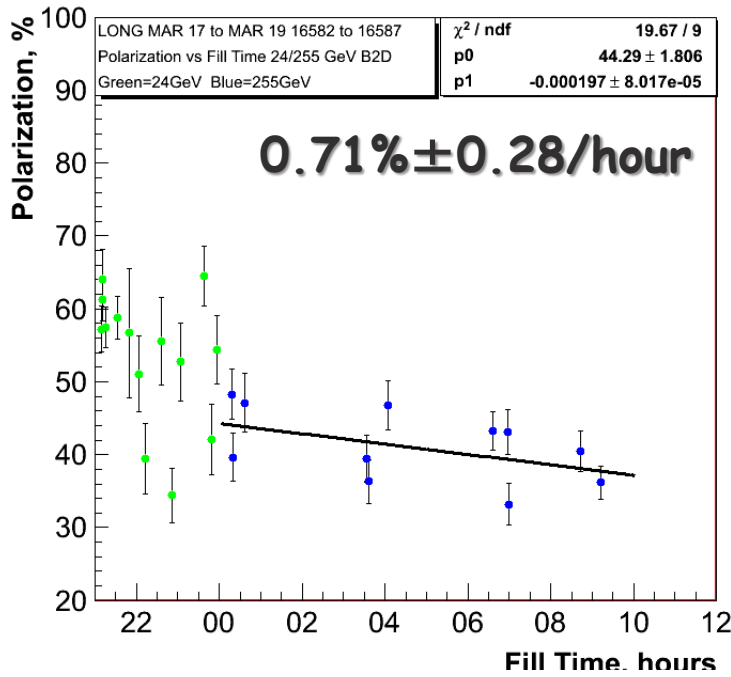


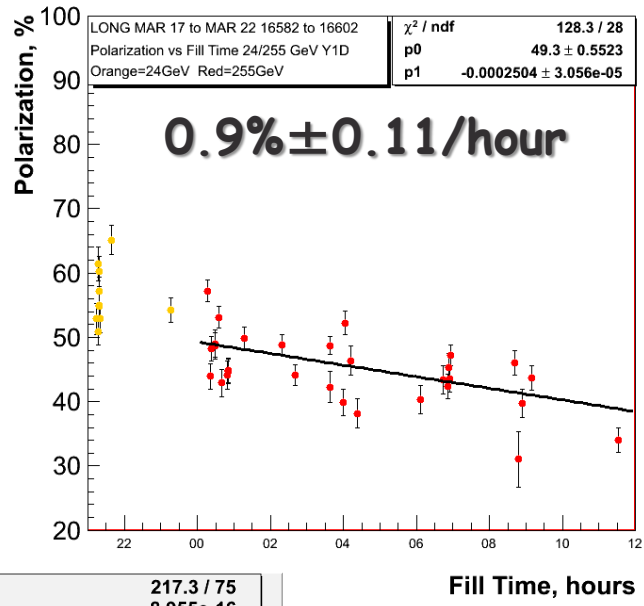
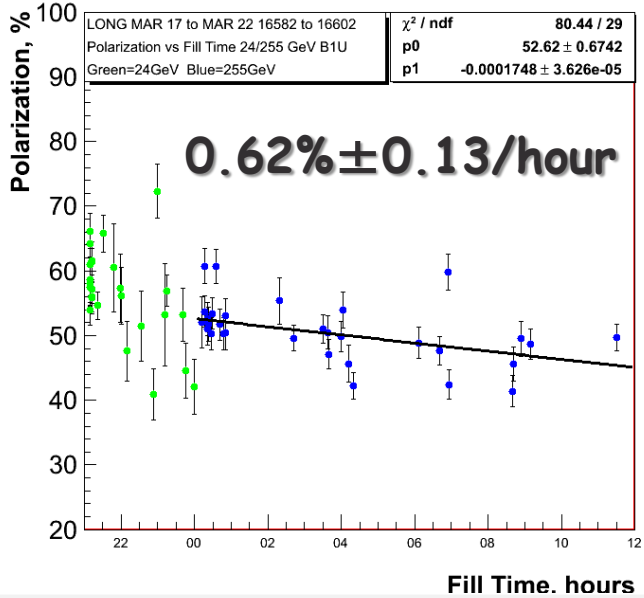
255 GEV RESULTS TRANSVERSE FILLS



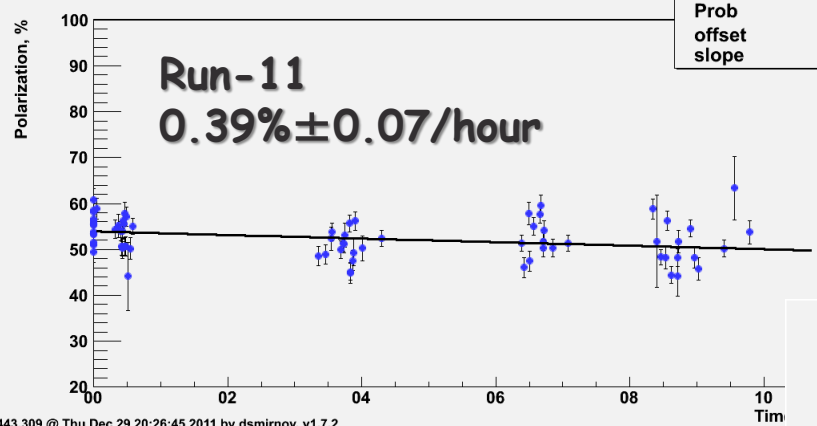
Polarisation lifetime in yellow very similar to longitudinal 255 GeV fills







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

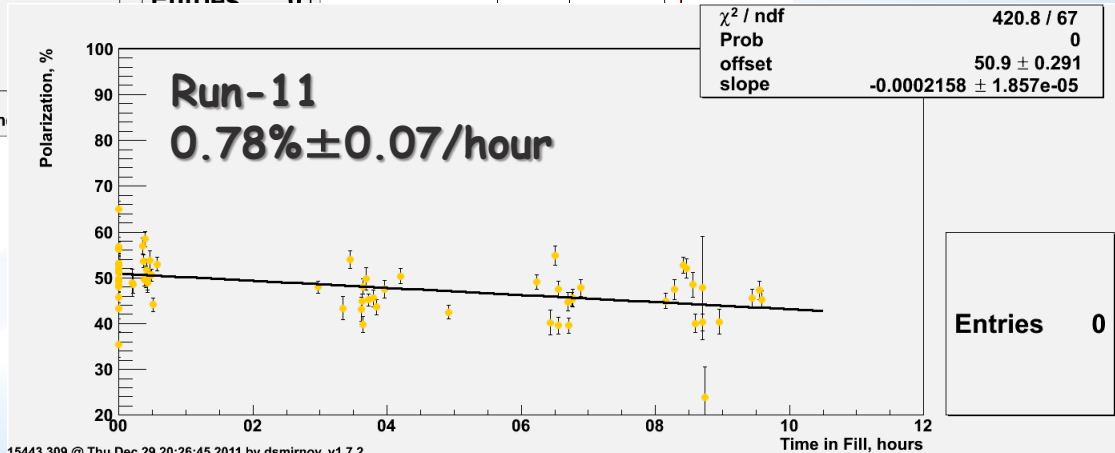
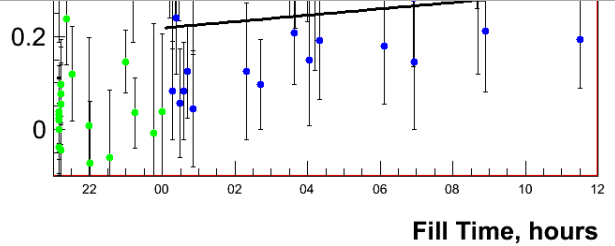


χ^2 / ndf	217.3 / 75
Prob	8.955e-16
offset	53.9 ± 0.334
slope	-0.0001075 ± 1.941e-05

16582 to 16602	χ^2 / ndf	24.38 / 28
Y1D	p0	0.2196 ± 0.04146
255 GeV	p1	2.046e-06 ± 2.565e-06

Entries 0

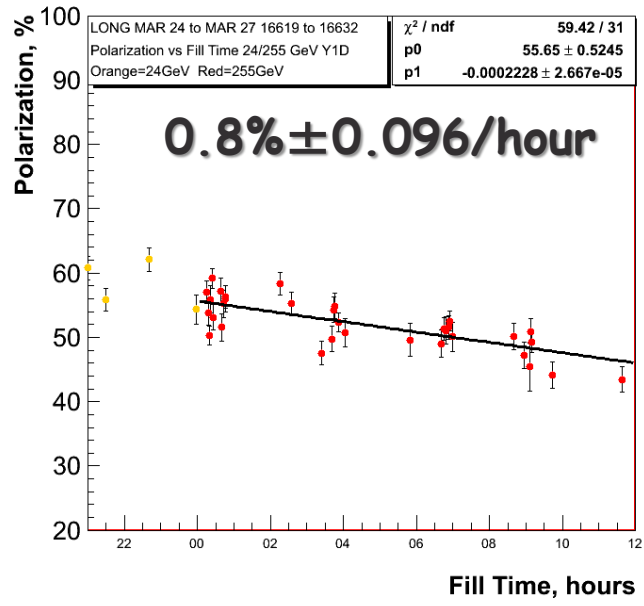
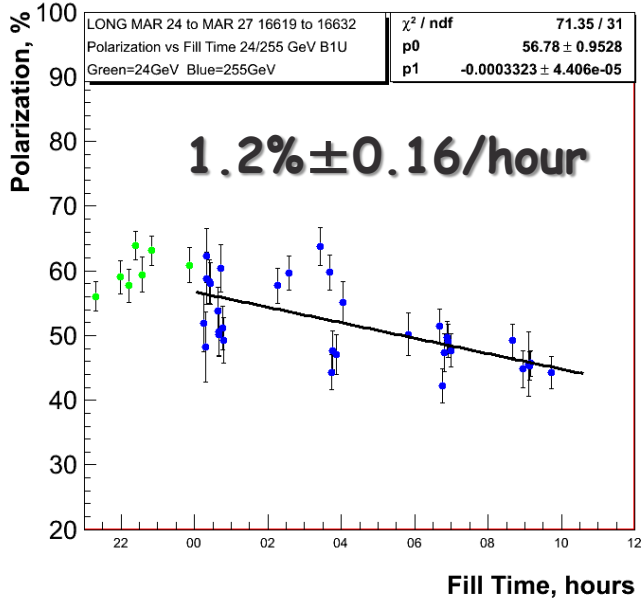
15443.309 @ Thu Dec 29 20:26:45 2011 by dsmirnov, v1.7.2



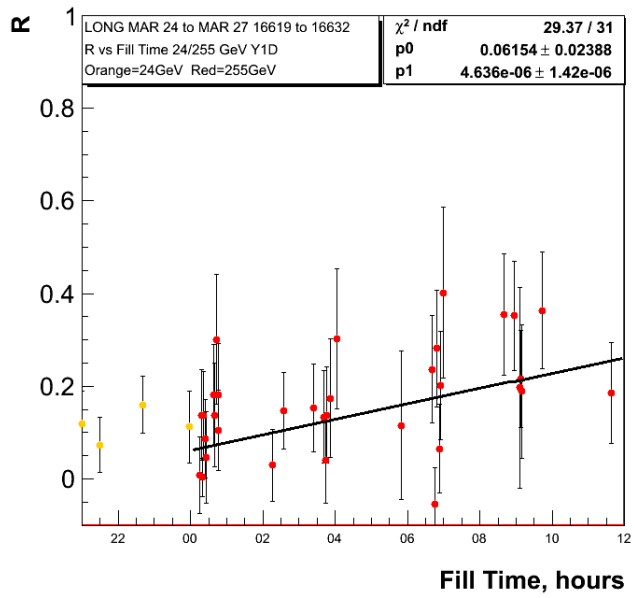
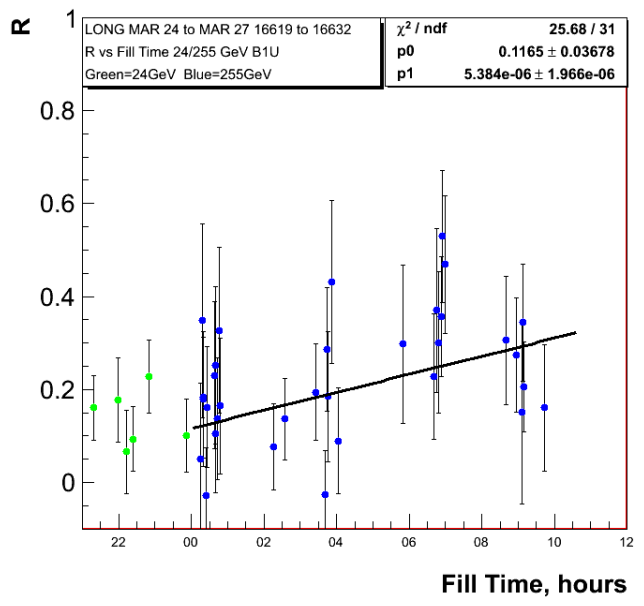
χ^2 / ndf	420.8 / 67
Prob	0
offset	50.9 ± 0.291
slope	-0.0002158 ± 1.857e-05

Entries 0

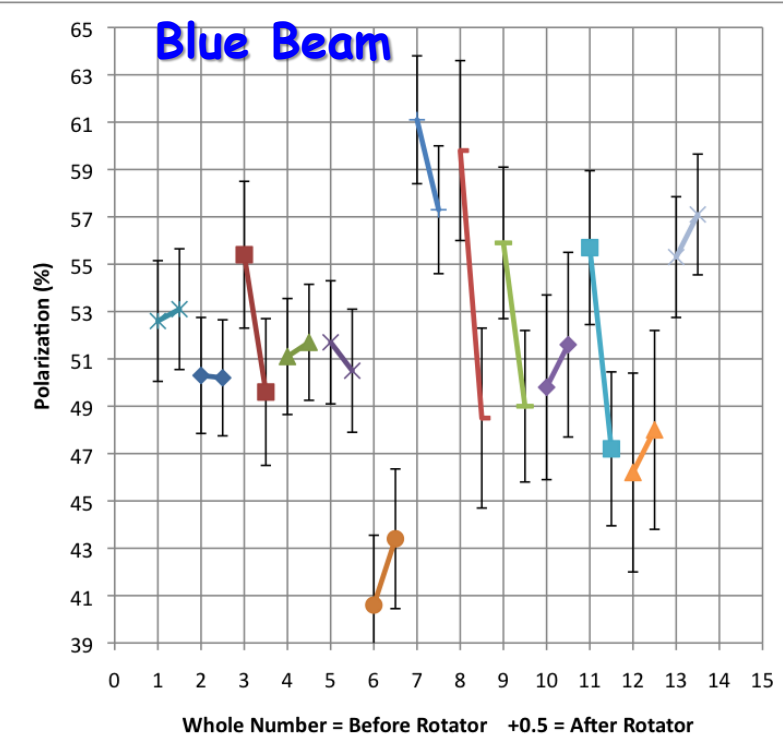
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Polarisation
Lifetime for low
Emittance fills

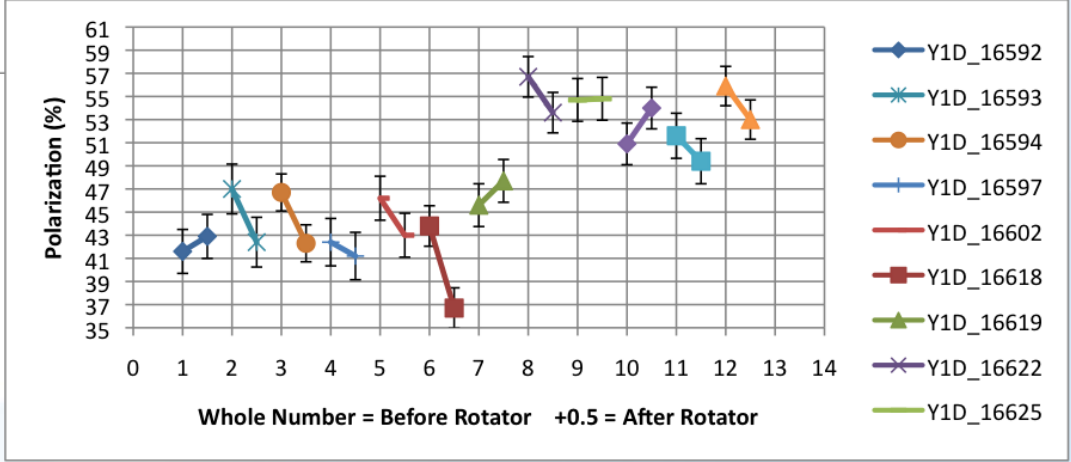


POLARISATION LOSS THROUGH ROTATOR RAMP

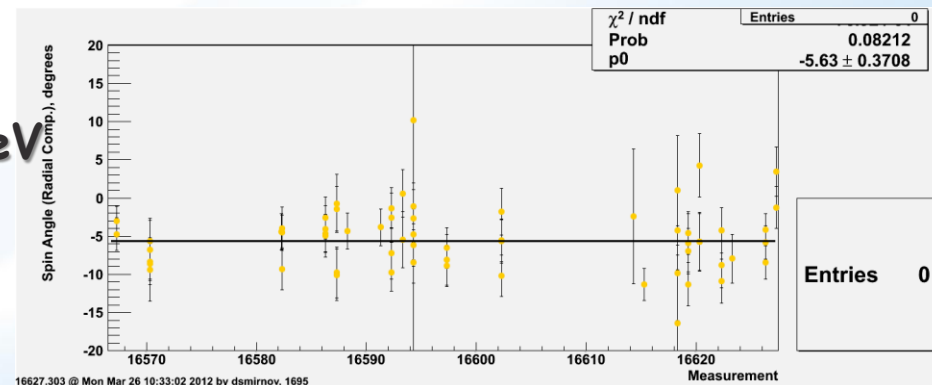
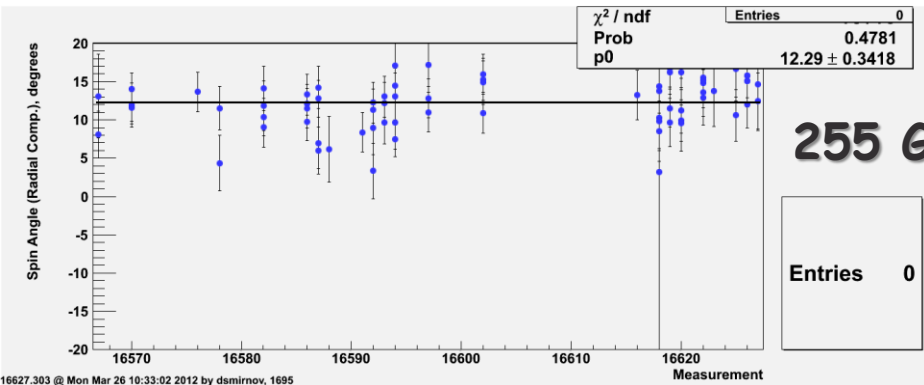
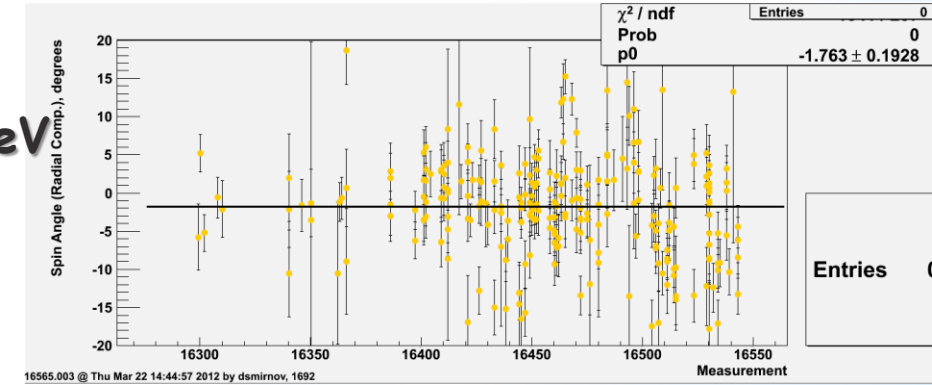
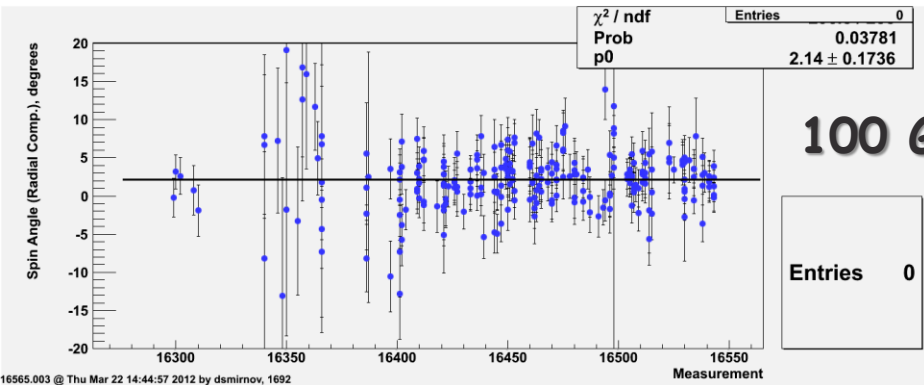
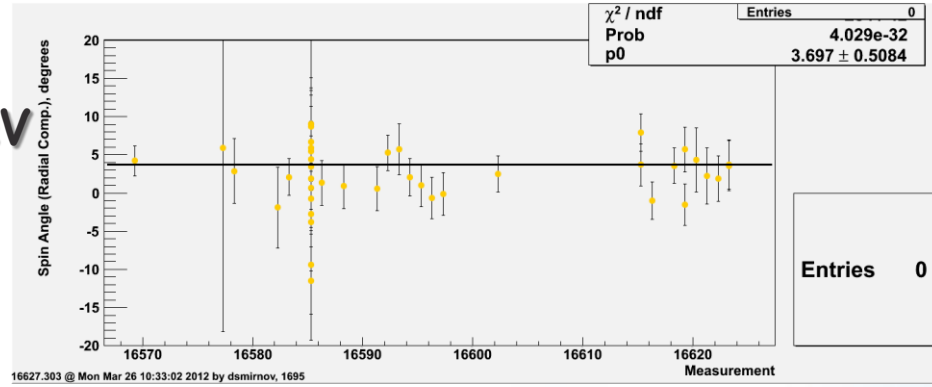
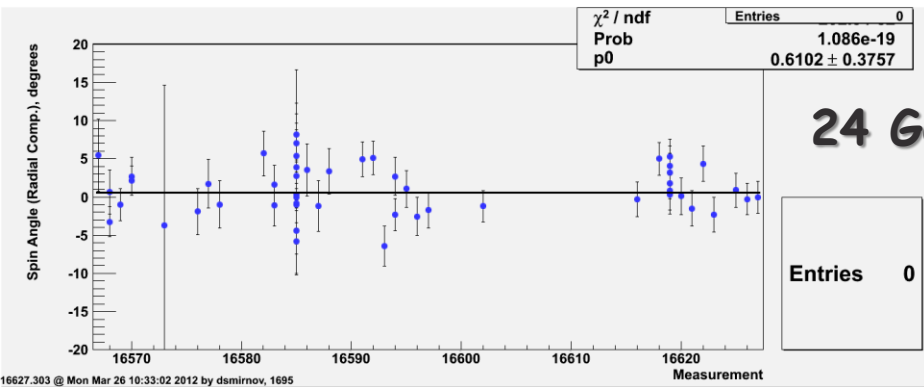


Shown are the polarisation measurements before and after the rotator ramp at 255 GeV

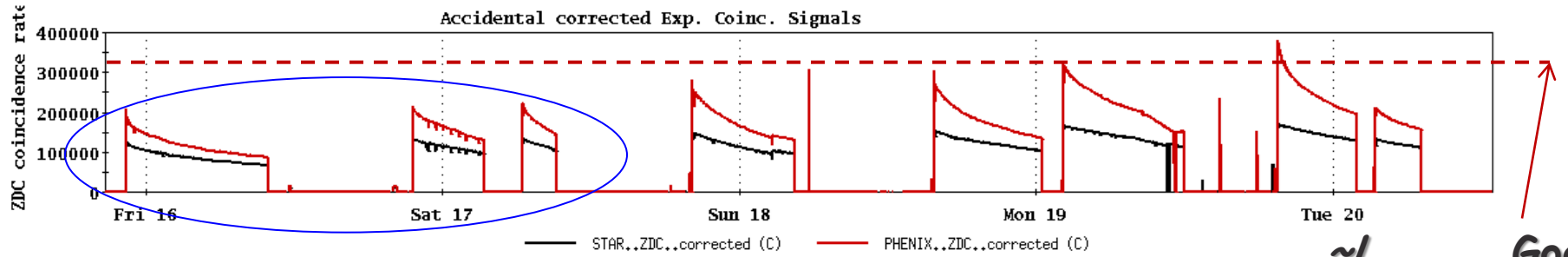
Yellow Beam



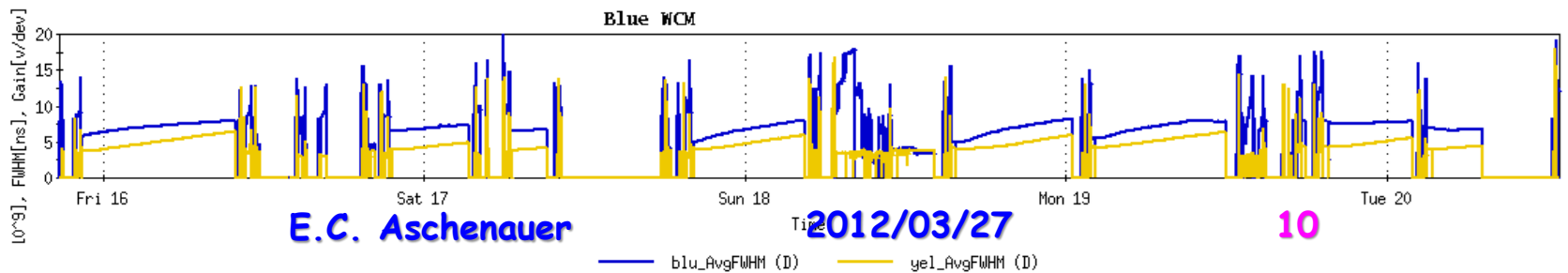
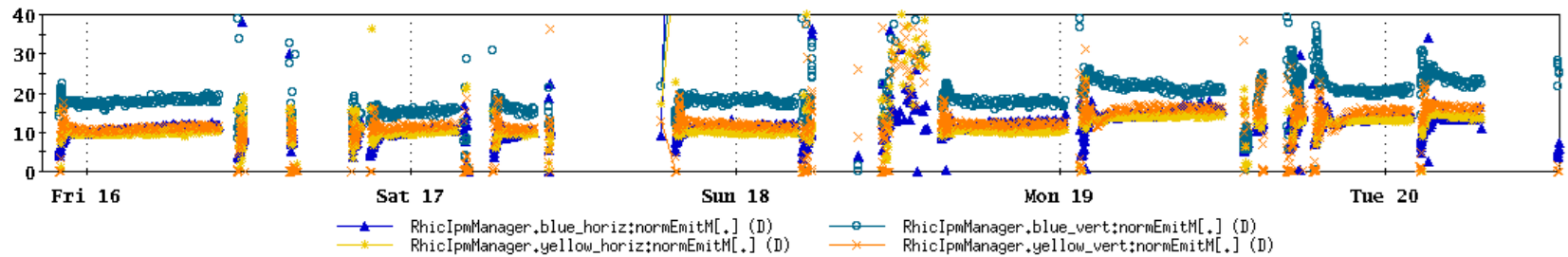
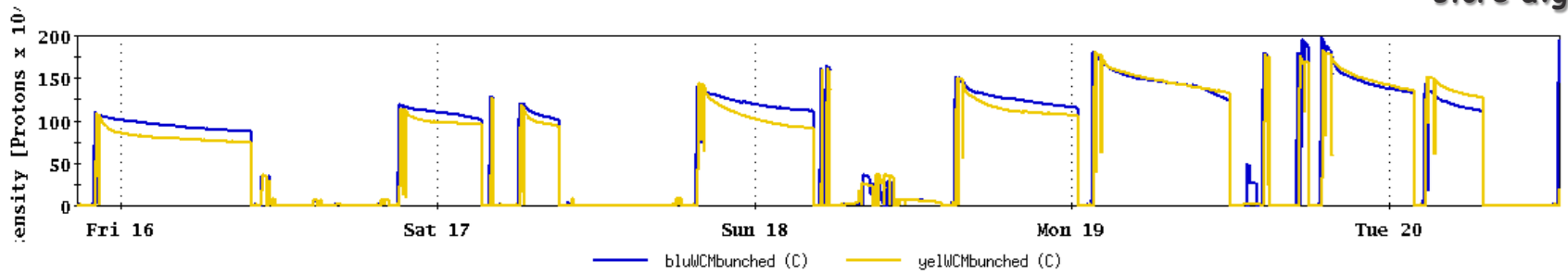
RADIAL SPIN ANGLE MEASURED BY PC



File Window Markers Analysis



~Lstore avg Goal



E.C. Aschenauer

2012/03/27

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INTENSITY DEPENDENCE OF POLARISATION

