

Status of Polarimeters

Generell Situation:

TPOL is running stable, no major incidents

small „accident“ with SI detector (one detector damaged during access), repaired during last access.

overall running efficiency (during lumi)= 96.8%

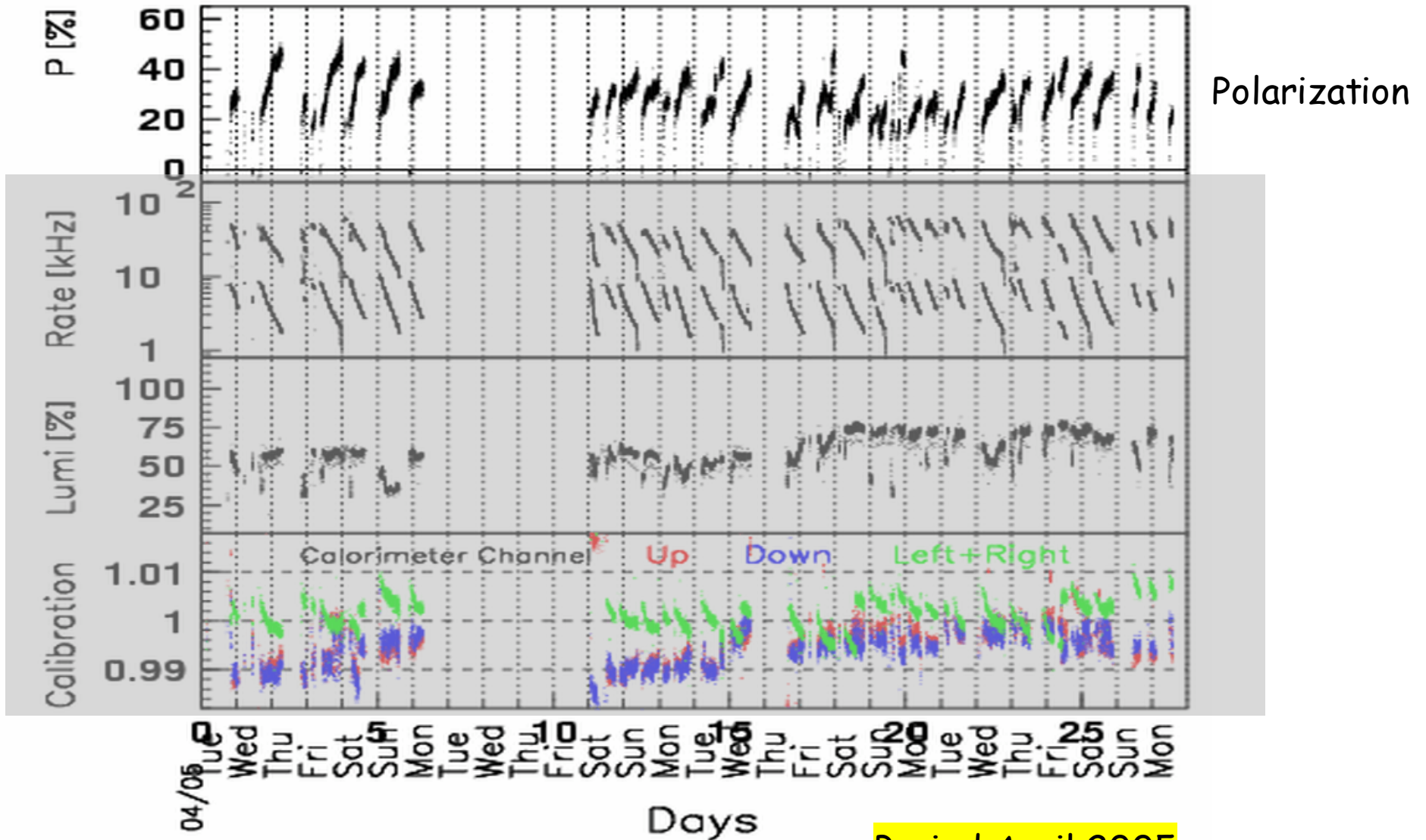
LPOL running smoothly without major problems

TPOL plots

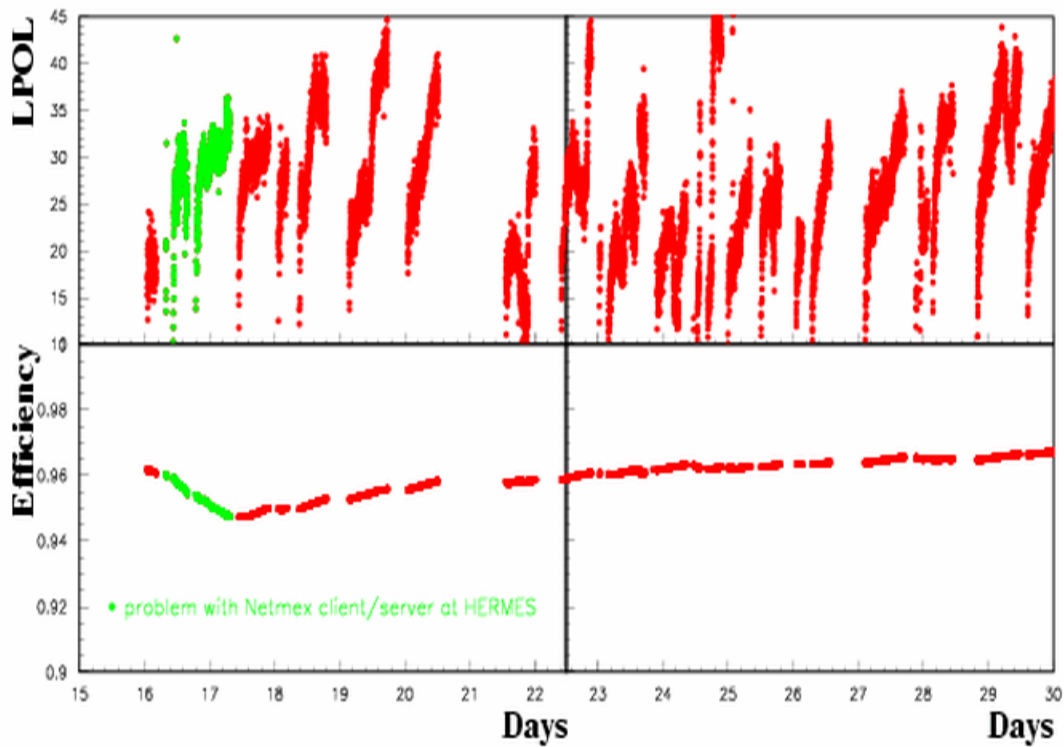
Ties Behnke:HERA coordination meeting, May 3, 2005

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Transverse Polarimeter



LPOL

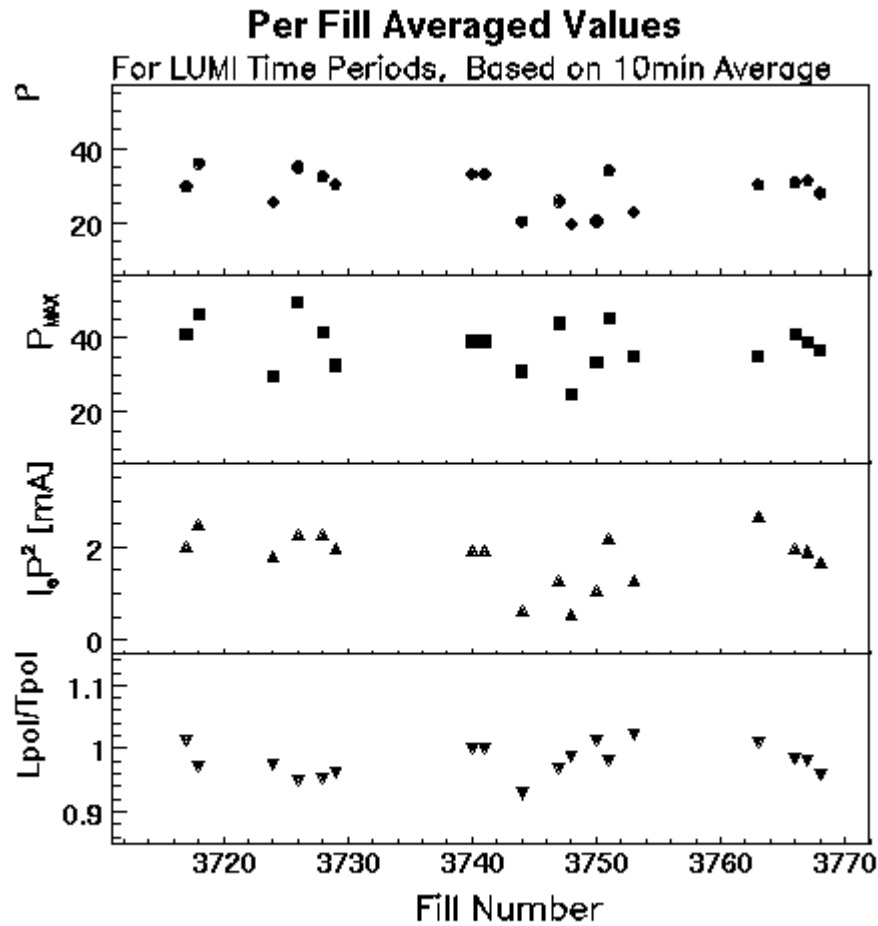


Polarization as measured with the LPOL

Efficiency of LPOL for „good“ lumi data

Overall LPOL efficiency removing bad fills: 97%

LPOL/ TPOL performance



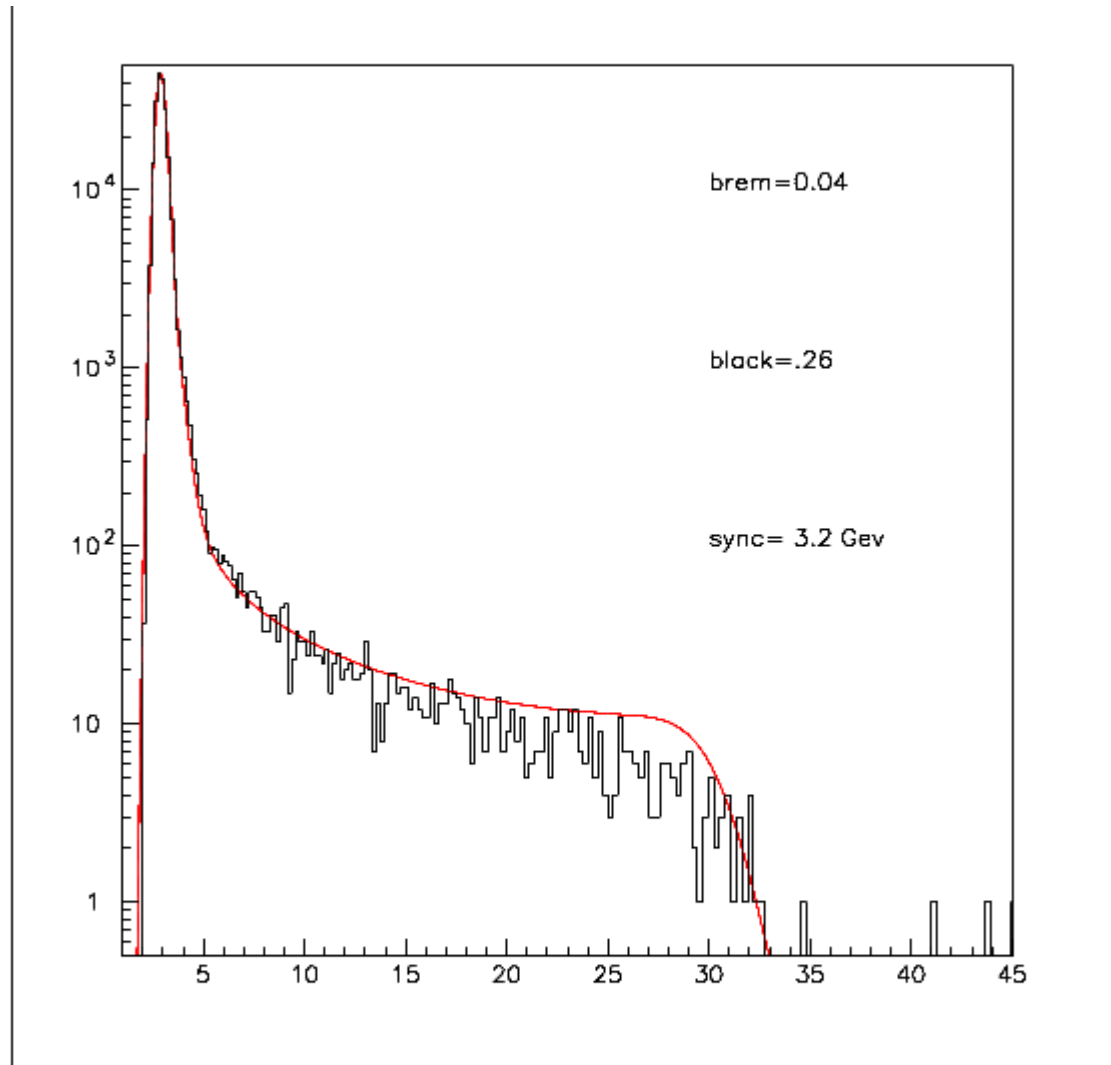
TPOL

max polarisation per fill

LPOL/ TPOL ratio

Both polarimeters perform satisfactorily, no major glitches

Cavity



Cavity spectrum (no beam)
taken last week

Superimposed is
fit to the data

Cavity is operational,
but
problems with locking in
the presence of beam:
suspected cause is 50Hz
pickup

Temporary fix found
by using alternative feedback
diode

Summary

Overall Polarimeter performance is ok

Remark: Work still is needed on reducing the systematic errors for the standard polarimeters. We attempt to do this but have rather limited resources

Cavity: cavity is operational, recent problems seems solvable

Plan: continue working with the machine to take more data (maybe this week?)

if successful: understand spectra, do polarisation measurements offline

New calorimeter: construction is ongoing, materials have arrived, parts are being fabricated at the moment