The TPOL trend panel: predicting the plateau polarisation

- Online fit to the polarimeter data
- The TPOL trend panel

Online fits to the polarimeter data

Reminder: polarimeter measurements arrive one minute behind

Straight-line fit: predict present polarisation using slope m

$$P(t) = P_{avg} + \mathbf{m}(t - t_{avg})$$

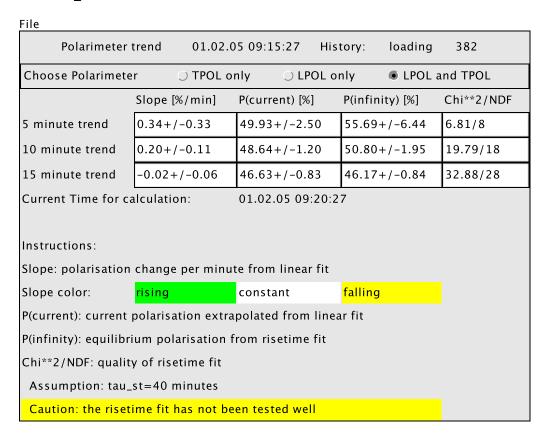
Risetime fit: use risetime formula

$$P(t) = fP_{st}(1 \mp \exp[-\frac{t - t_0}{f\tau_{st}}])$$

$$P_{st} = 92.4\%, \quad \tau_{st} = 40 \, \text{min}$$

Determine f from data and predict $P_{\infty} = fP_{st}$.

The TPOL trend panel



Polarimeter trend is calculated using:

- TPOL and/or LPOL
- last 5, 10, or 15 minutes