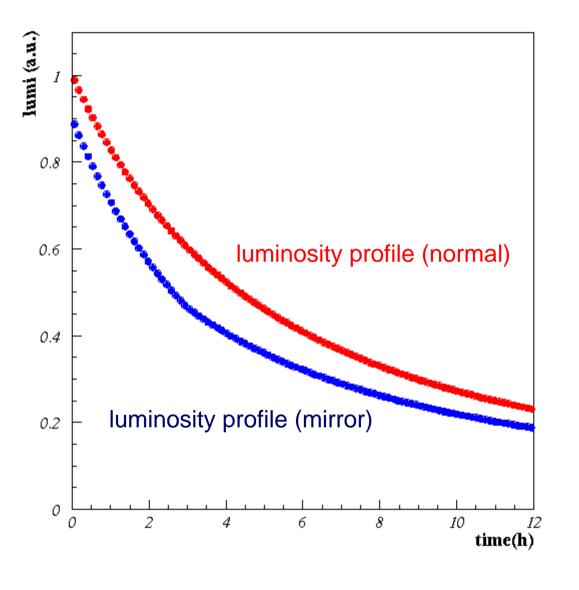
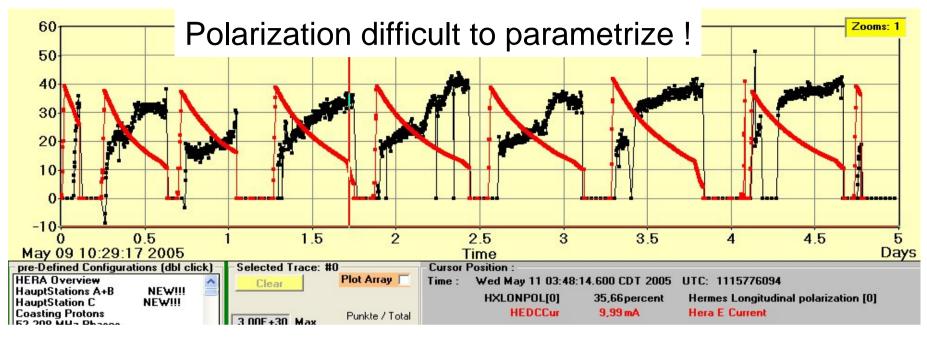
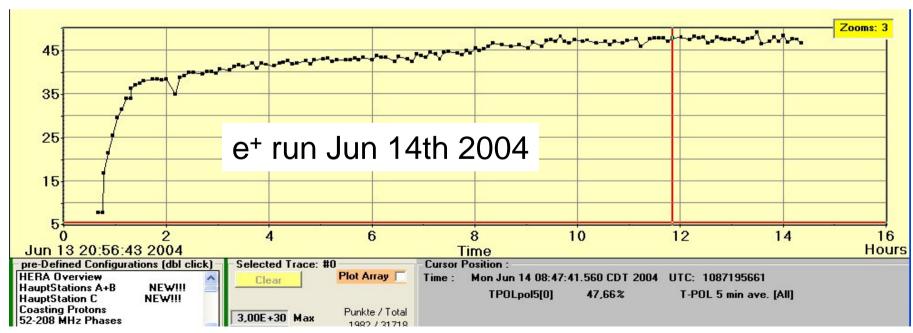


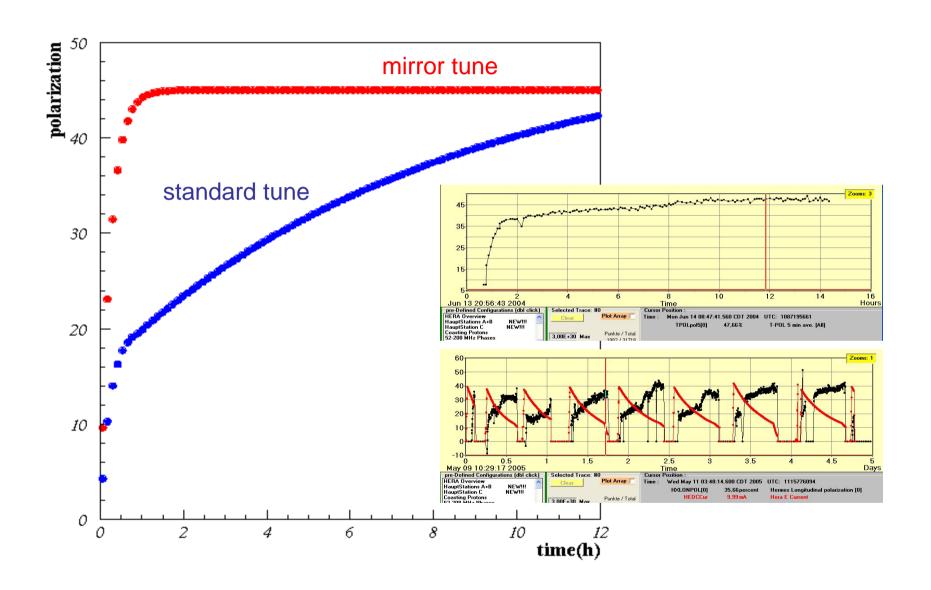
Model for HERA luminosity in a fill

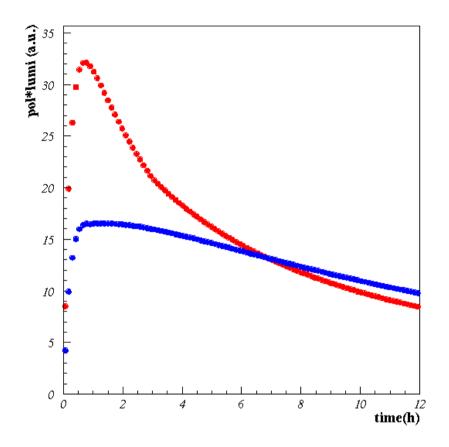


20% reduction of the integrated luminosity









Factor 1.5 improvement in the lumi averaged polarization

$$\frac{\int pol \cdot lumi}{\int lumi}$$

- Standard tunes 25%
- Mirror tunes 43 %