

# The HERA polarimeters

## status report

- The TPOL
- The “old” LPOL
- The LPOL cavity

# The TPOL

- Operation in 2003/2004: good stability.
- Constant improvements to silicon detector and readout ongoing (shutdown: upgrade clock generator)
- Summer 2004: calibration of polarisation scale based on old risetime measurements + Silicon detector + MC modelling of focus dependence  
applied to the data presented at ICHEP 2004
- Focus correction will be applied online after 2004 shutdown.  
→ well calibrated TPOL measurements after HERA startup

# The “old” LPOL

- Crystal calorimeter back in operation during last weeks of summer 2004
- Spare Crystals ordered
- Shutdown work: cameras repaired, laser alignment, etc
- Sandwich calorimeter: repair ongoing. Installation expected soon. Not required for standard operation anyway.
- Expect reliable LPOL numbers after HERA startup

# The LPOL cavity

- All electronics repaired and installed in radiation-safe locations
- Optics realigned
- Cavity locked successfully
- Plan to record first Compton photons with sandwich calorimeter
- Design of new Quartz fiber calorimeter well advanced, install early next year

# Conclusions

- Both Polarimeters in good shape
- Improved TPOL online calibration
- LPOL cavity ready for beam operation, with new radiation shielding