TPOL offline status

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- Determination of the eta-y curve by Silicon and Fiber.
  - y-range dependence
- Time dependence
- Summary & Future plan

Determination of eta-y

- **Purpose**
  - To provide a set of three eta-y parameters for the offline analysis by silicon and fiber.
  - Study the y-range in fitting eta-y
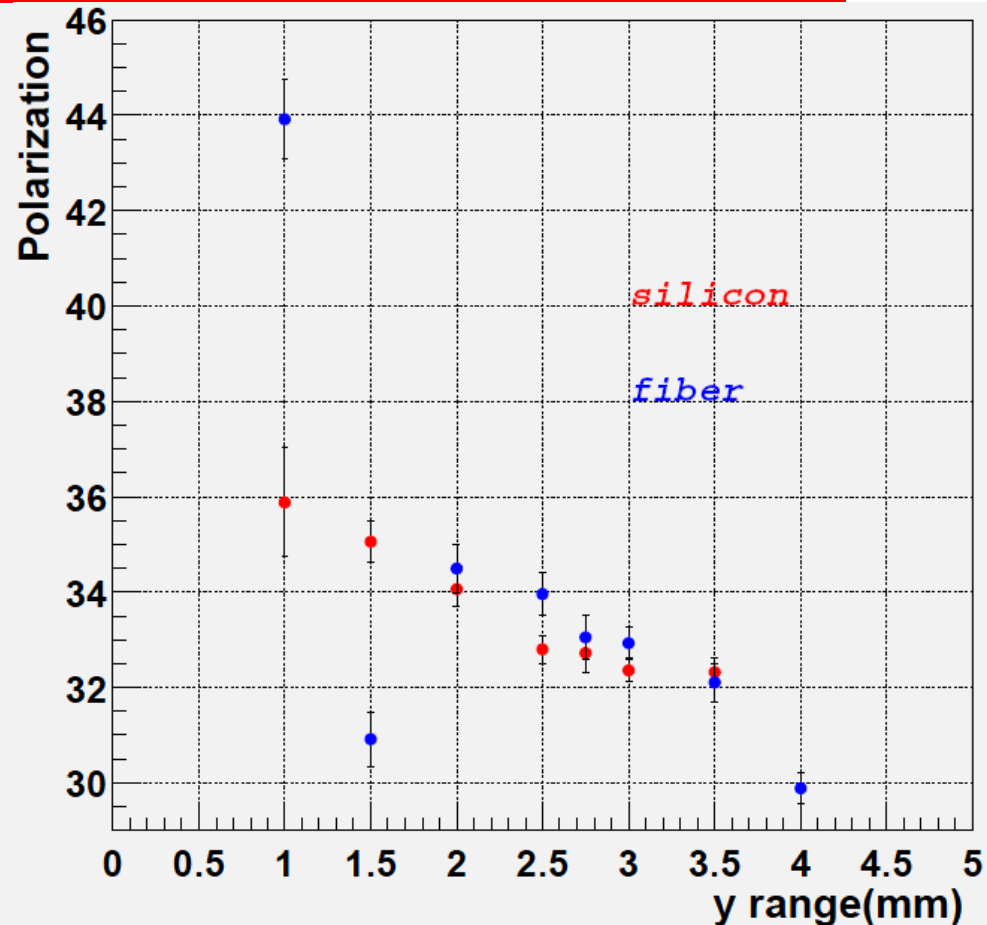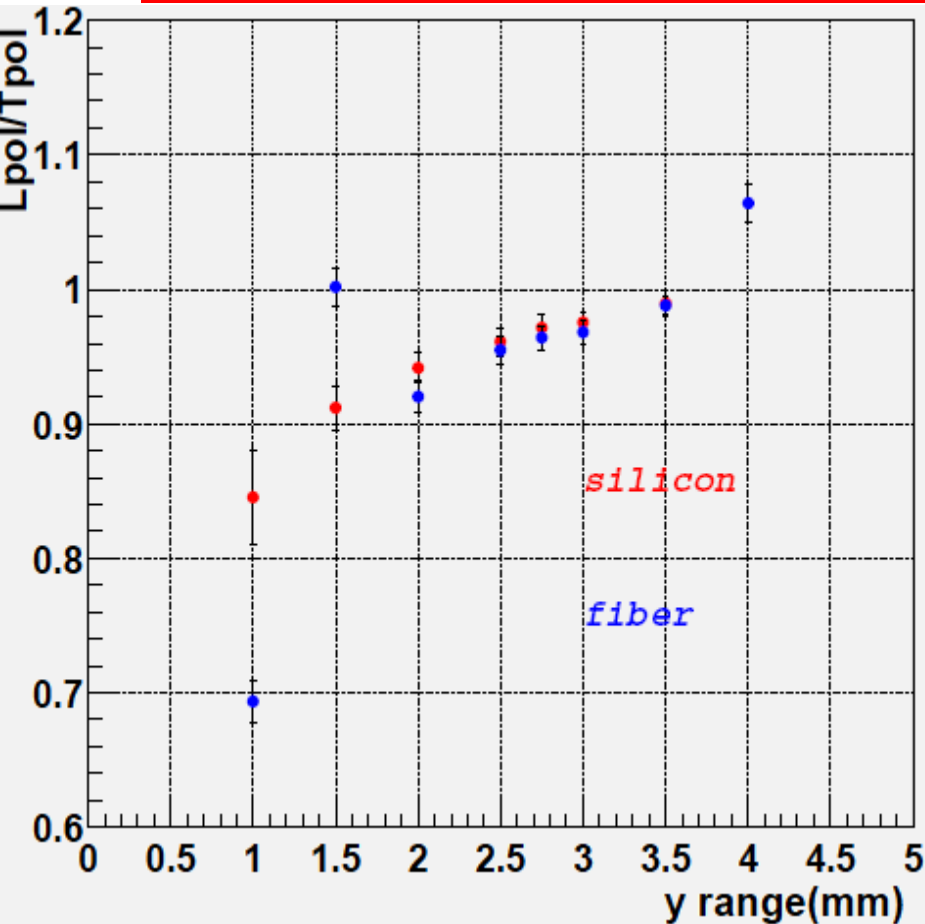   - Check stability of Pol & L/T
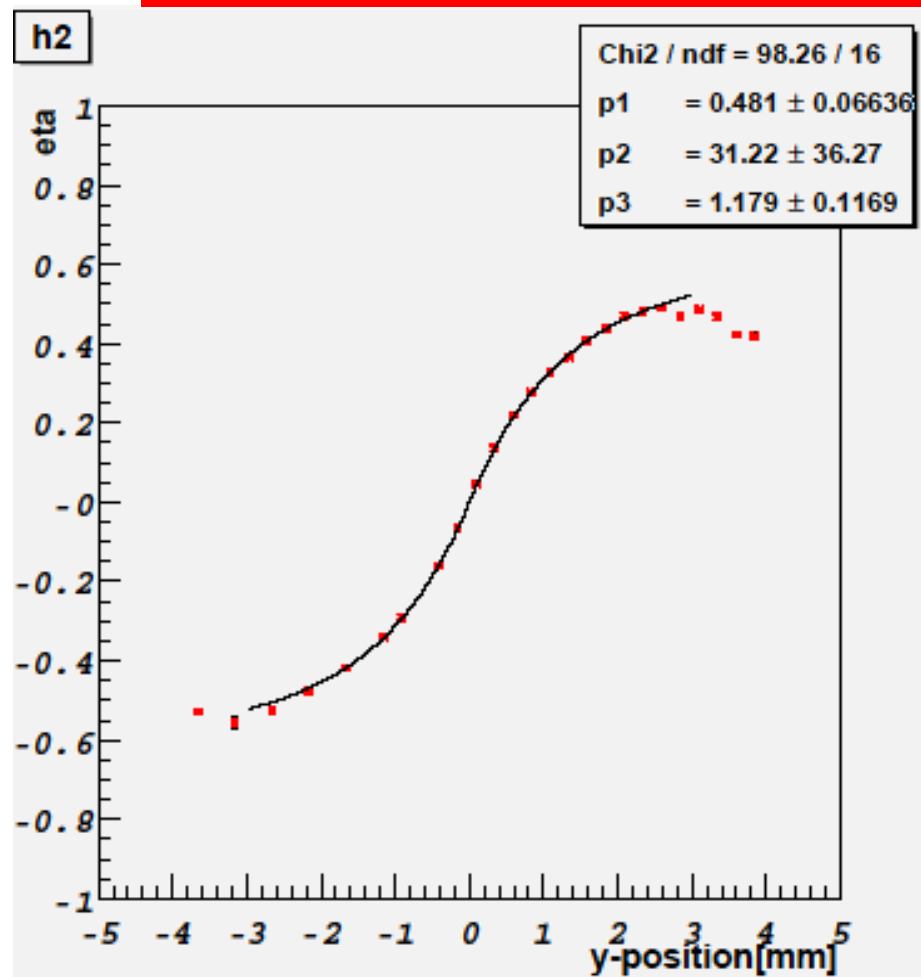- **Data sample**
  - 7th Mar 2004
- **y range**
  - fiber   +/-1.0mm~+/-4.0mm, 0.5mm step
  - silicon   +/-1.0mm~+/-3.5mm, 0.5mm step
  - besides +/-2.75mm

y-range dependence

The region between +/-2.0mm~+/-3.5mm is stable and good agreement in Si/Fi.

Eta-y plot with fiber
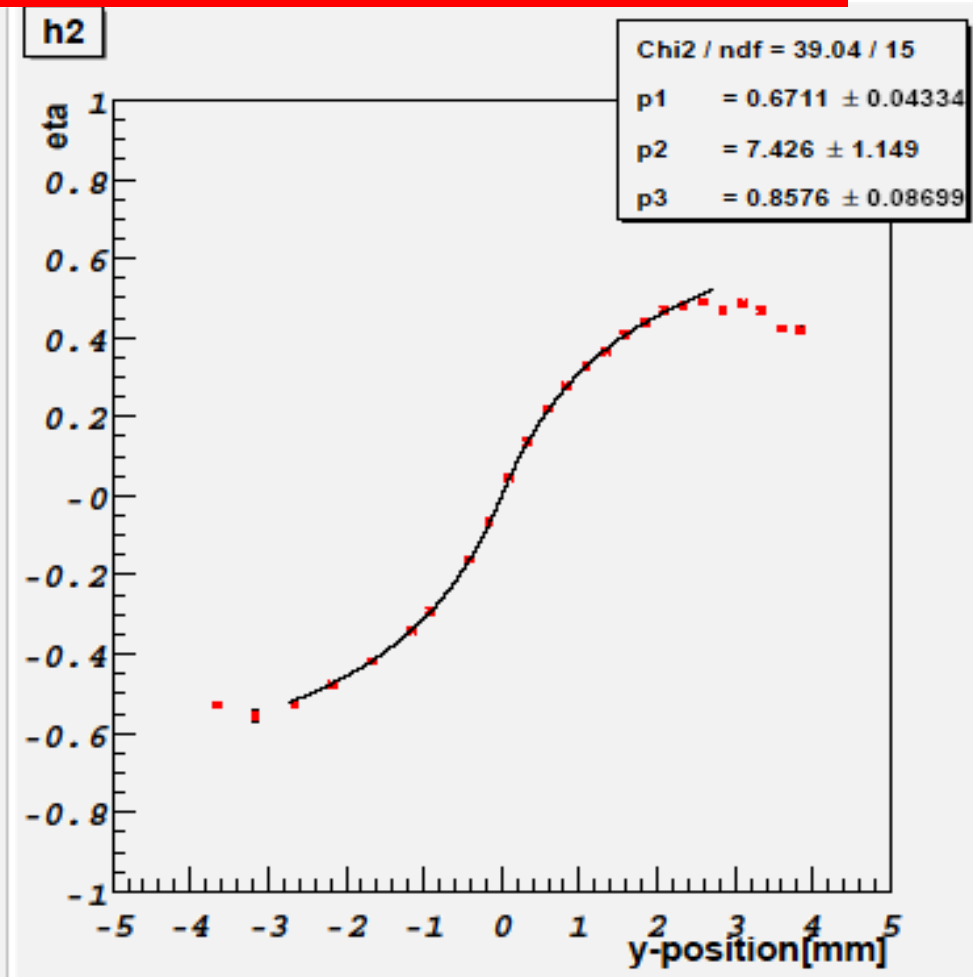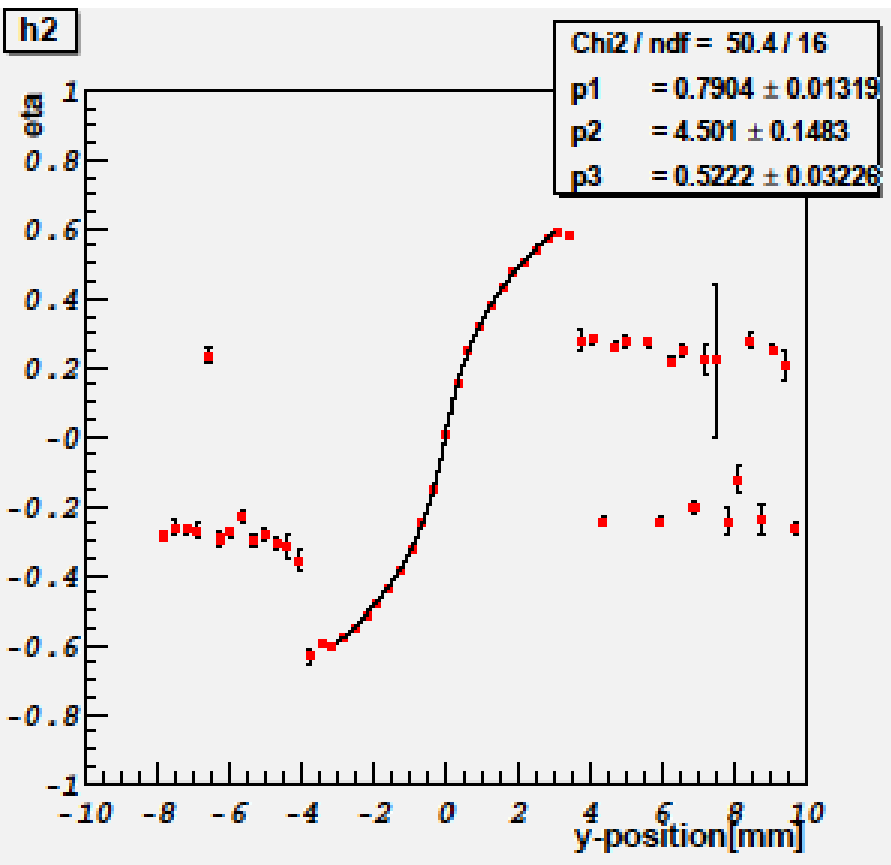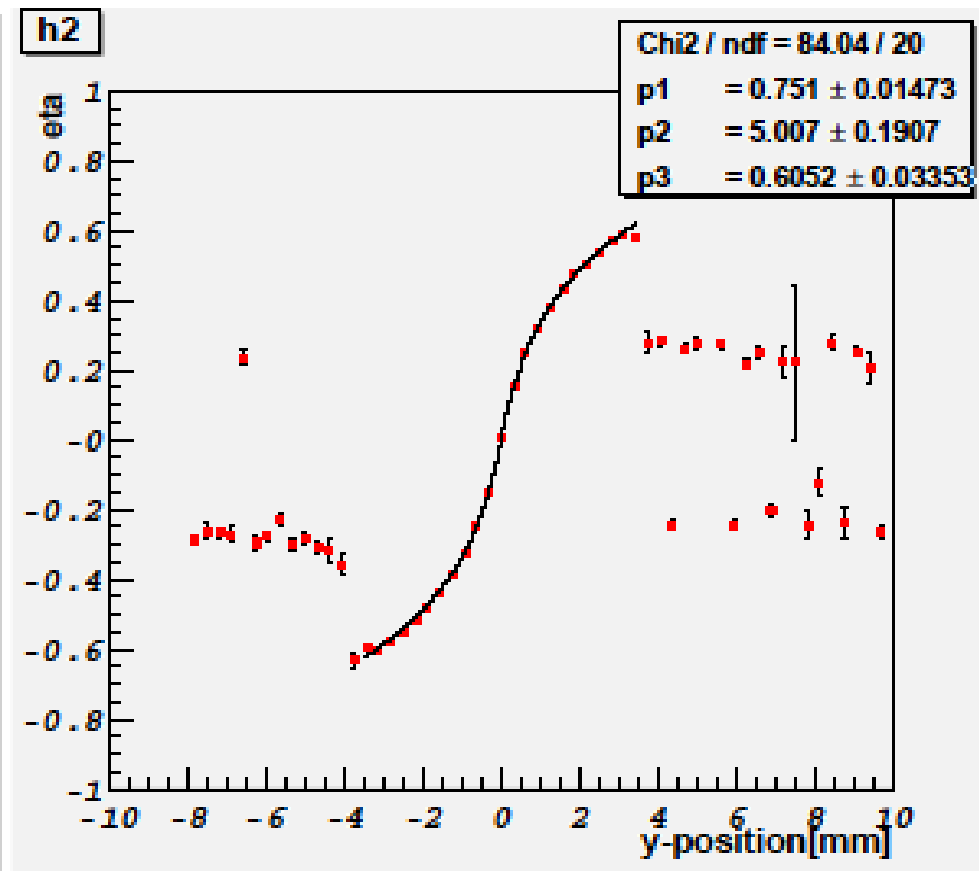

+/-3.0mm   +/-2.75mm

Eta-y plot with silicon

+/-3.0mm

+/-3.5mm

Time dependence

- ## Purpose
  - to estimate systematic error due to possible time dependence in the eta-y curves.

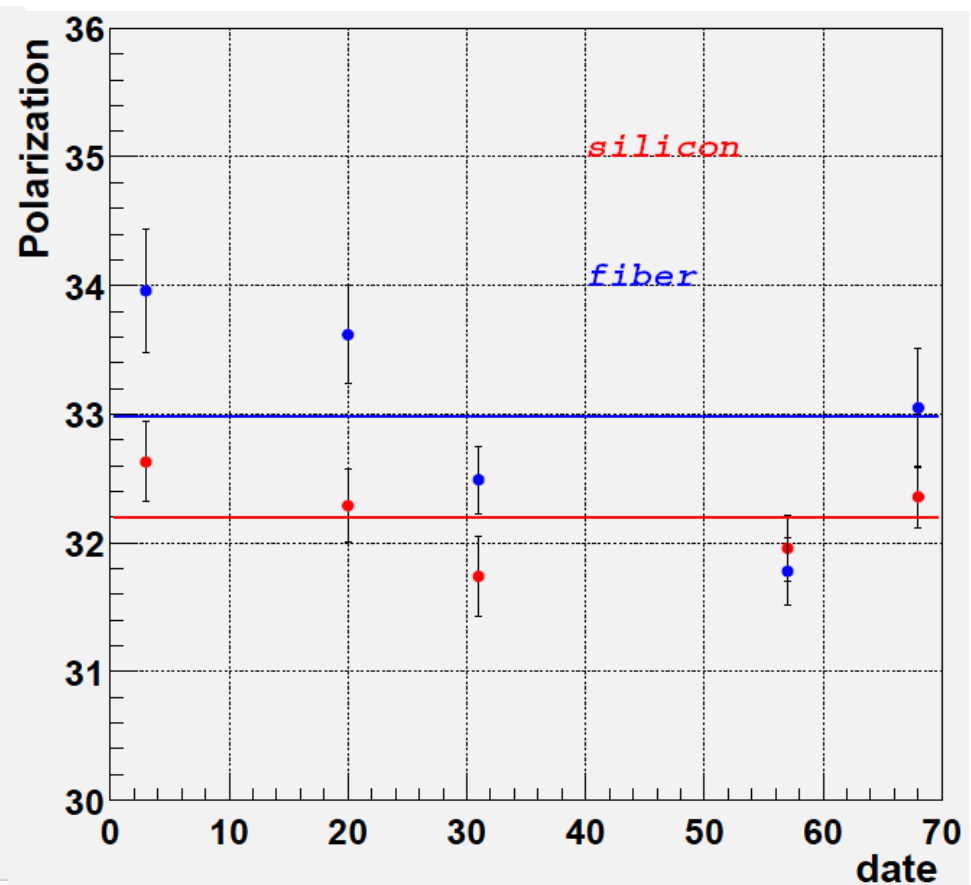   (y-range is fixed

    fiber +/-2.75mm, silicon +/-3.0mm)
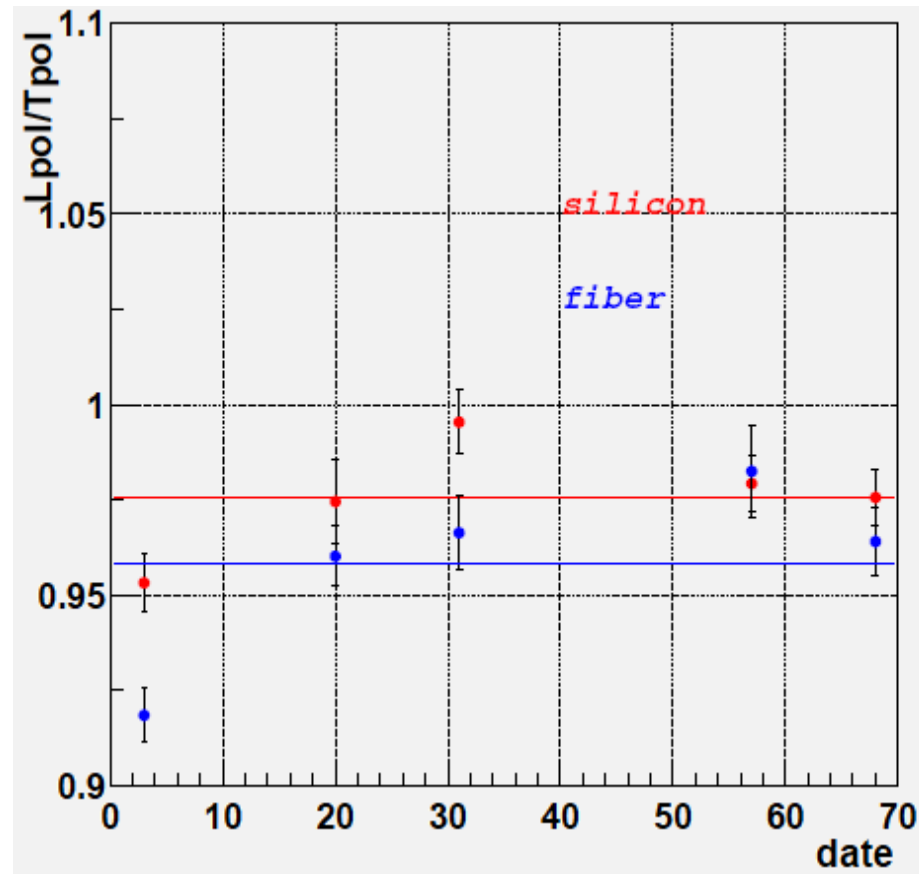
- ## Data sample
  - 7th Mar 2004

- ## Time range for eta-y
  - 3rd Jan 2004~7th Mar 2004

Lpol/Tpol & Pol vs date

Fluctuation in polarization   silicon ~2%   fiber ~4%

Tpol is higher than Lpol by 2.4%(silicon)   4.1%(fiber)

Summary

- The Polarization derived from Si and Fi agreed with ~2% each other for 2.0mm~3.5mm of y region.
  no sharp change in the region between 2.5mm~3.0mm

- Systematic errors due to time dependence of the eta-y curve was within 2% for silicon, 4% for fiber.

Future plan

- Checking stability in L/T, other parameters, with fixed eta-y curve.

- Study further the y-range dependence to the eta-y curve.

- Study the time dependence of eta-y curve.

- We should try to enlarge y-range in fitting eta-y curve, silicon noise reduction is necessary.