TPOL offline status

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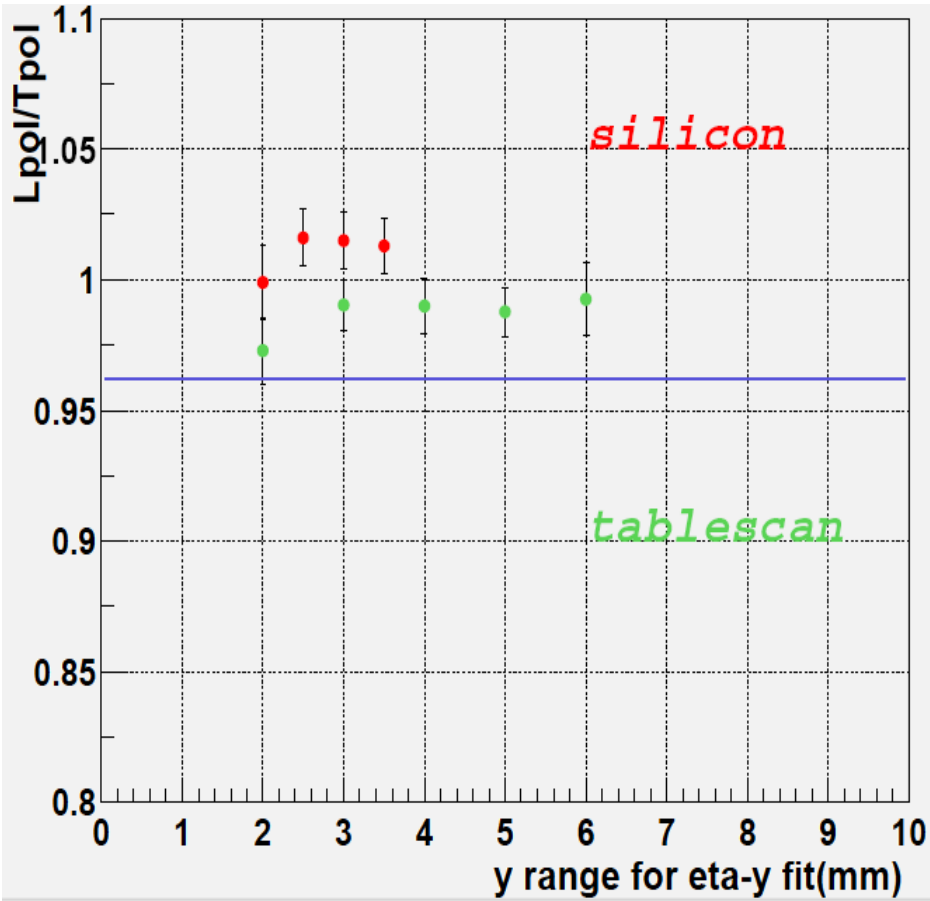
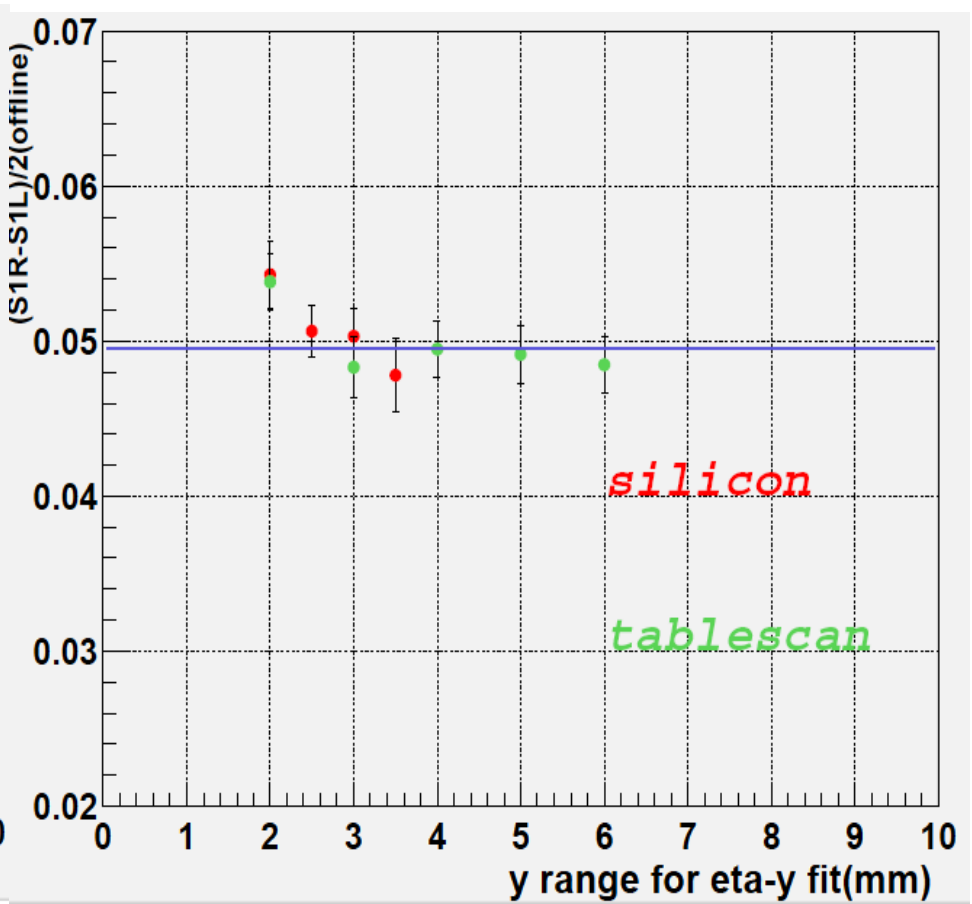
- Fixed parametes……
  - eta-y, beamsize & sumS1.
- Study on the……
  - beamsize dependence.
    - Difference of fixed value.
    - Difference between fixed and free.
- Summary.

Fixed parameters

- eta-y parameters
  - from Silicon,table scan → fixed.
- beamsize
  - from online analysis → fixed.
- sumS1((S1R+S1L)/2)
  - extract from first minute data.
    - fixed to the rest of data with the value.
- Check with some CAL data.
  - 7th.Mar.2004.
  - 31st.Jan.2004.
  - 20th.Jan.2004.

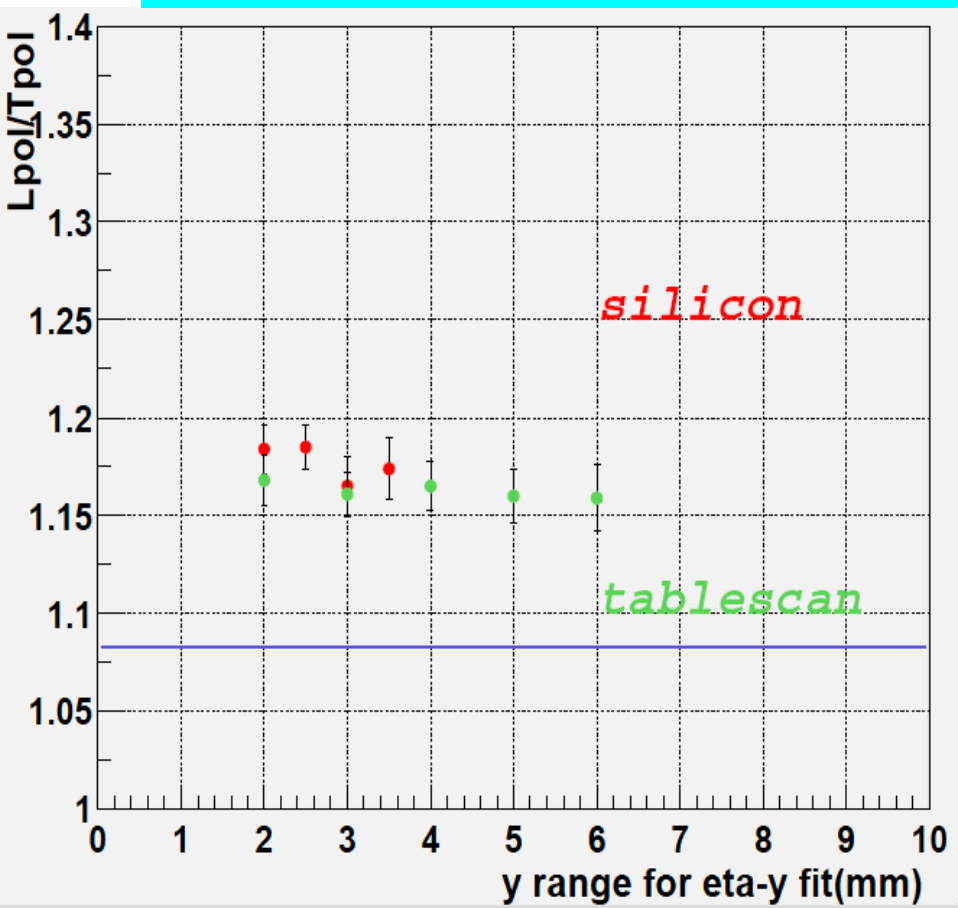
7th.Mar.2004

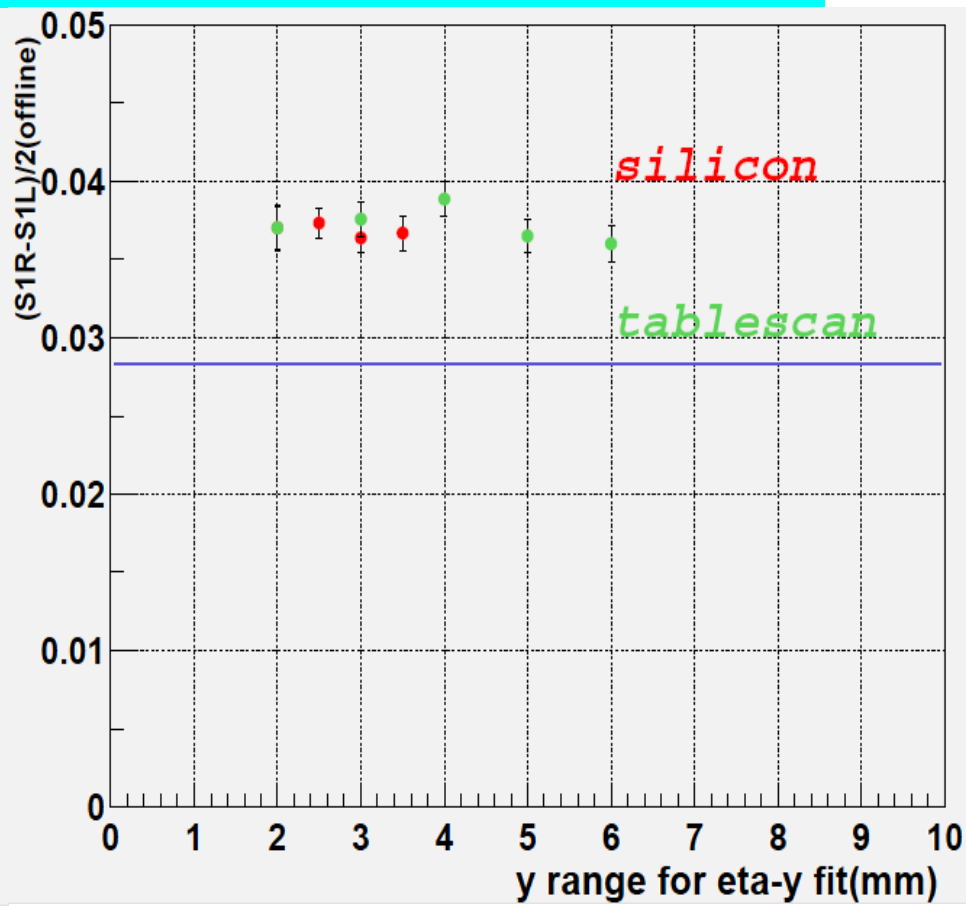




Offline is stable in y with eta-y & beamsize & sumS1 fixed.

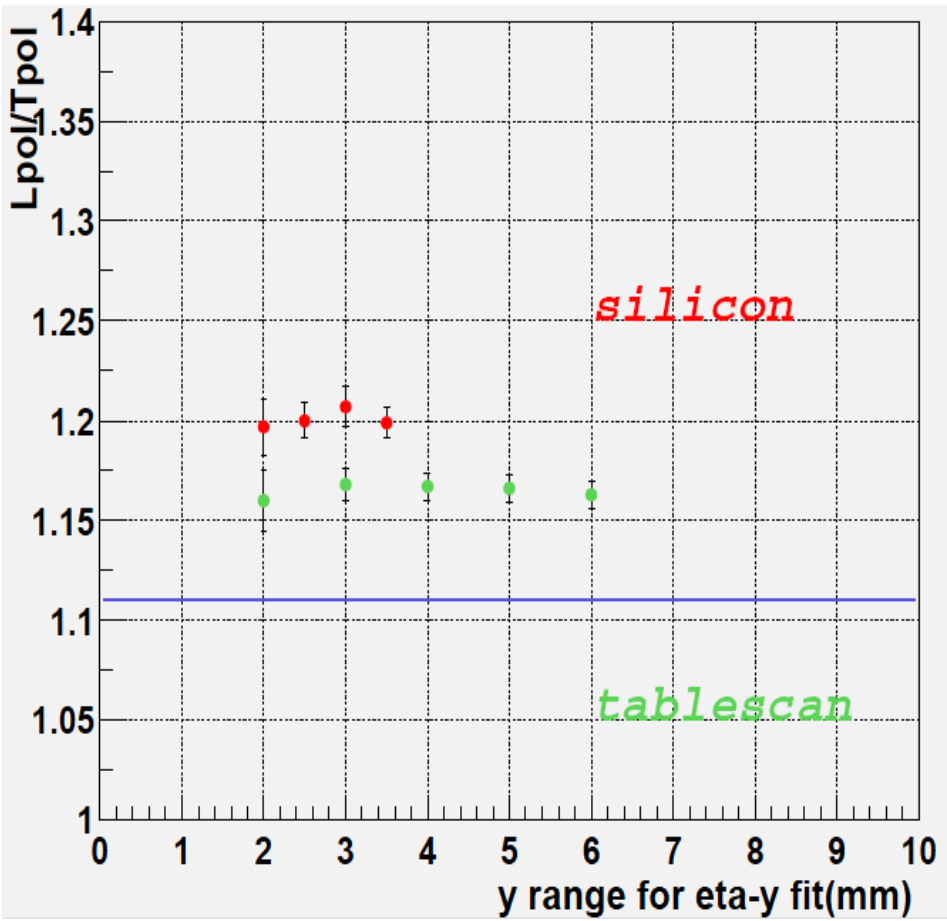
31st.Jan.2004

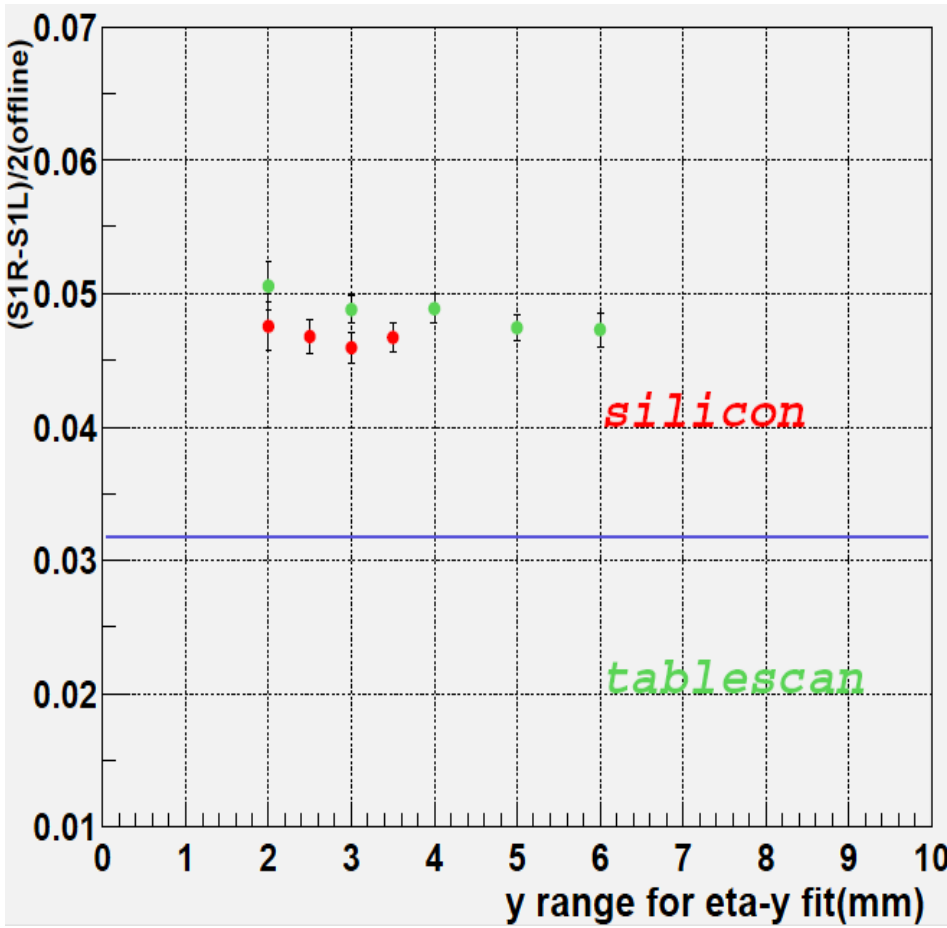




Stable in y, both silicon and table scan.

20th.Jan.2004



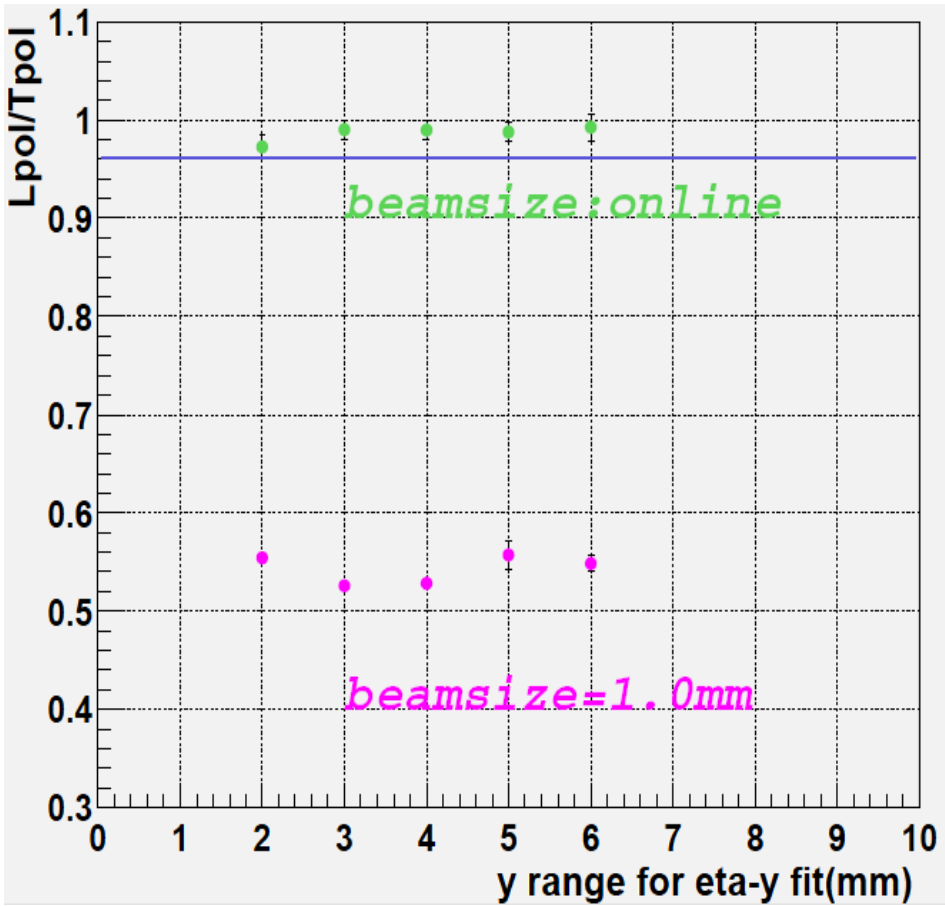


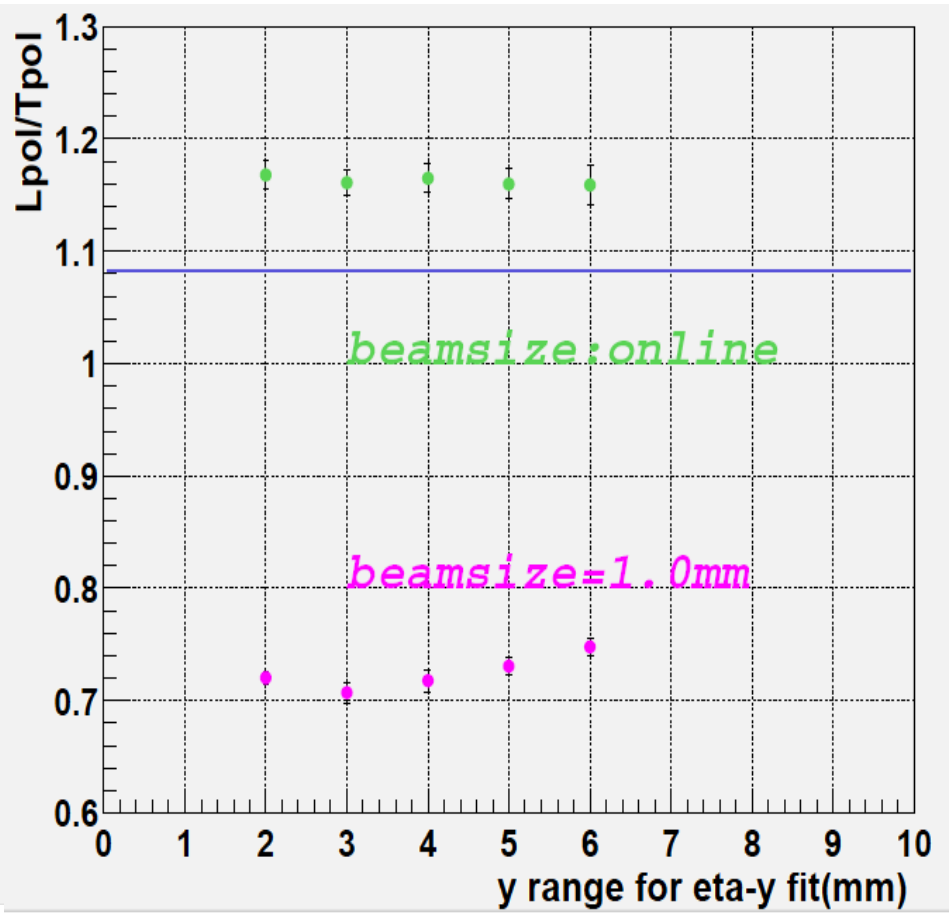
For some CAL data, under these condition, the method is stable.

Study on the beamsize dependence

- Check how impact on offline method with different beamsize.
  - eta-y parameters
    - Table scan
  - CAL data sample.
    - 7th.Mar.2004.
    - 31st.Jan.2004.
  - fixed beamsize.
    - online analysis.
    - 1.0mm

7th.Mar. and 31st.Jan



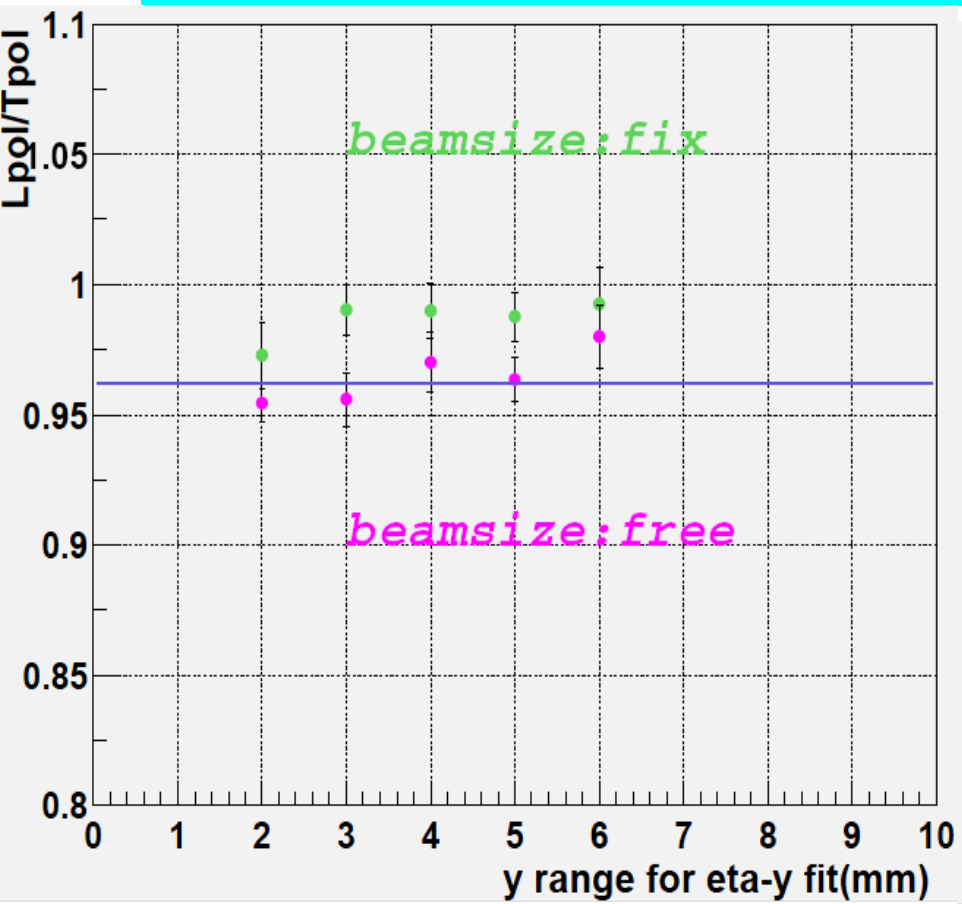


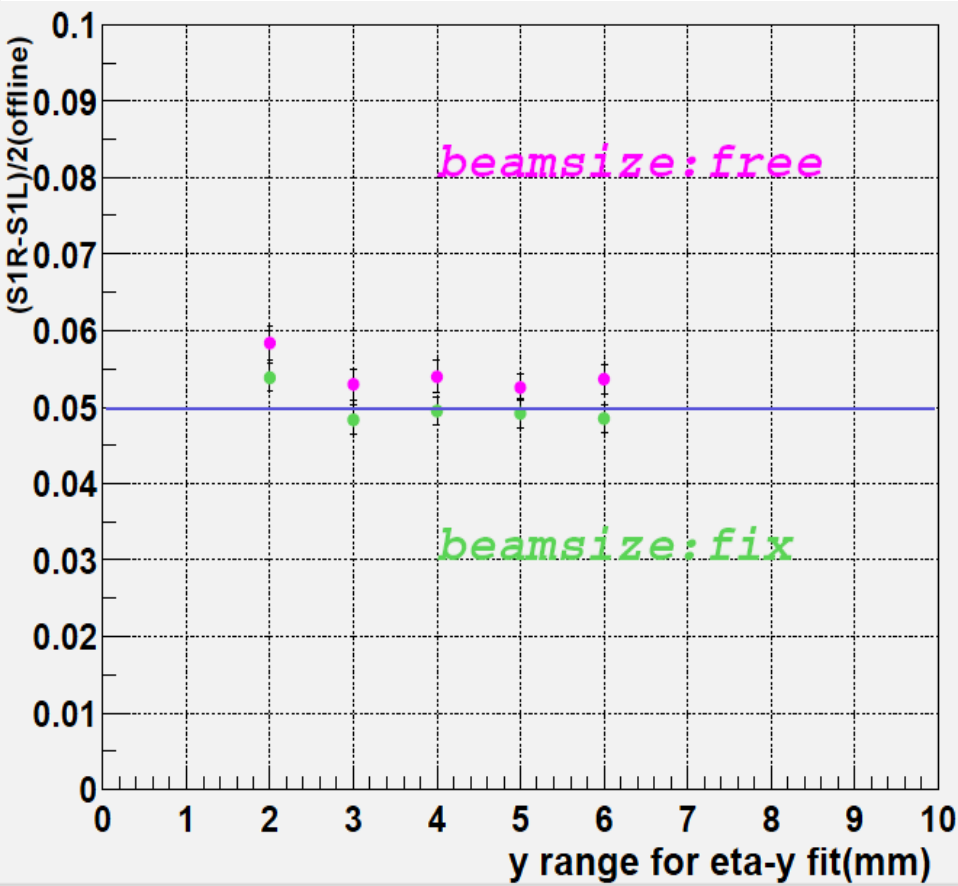
Offline method has strong correlation on the beamsize.

Beamsize free & fixed

- Purpose
  - To check the effect of beamsize on the offline method.
- Fixed beansize
  - Focus ---from online analysis.
- CAL data sample
  - 7^{th}.Mar.2004
  - 31^{st}.Jan.2004

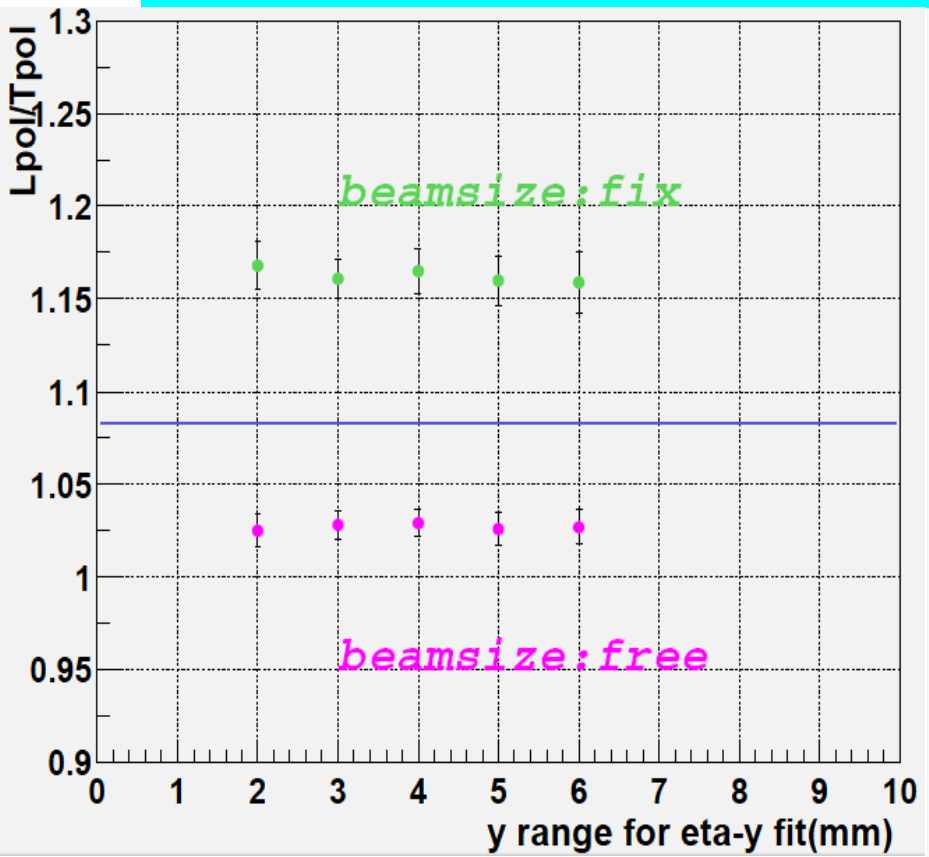
7th.Mar.2004

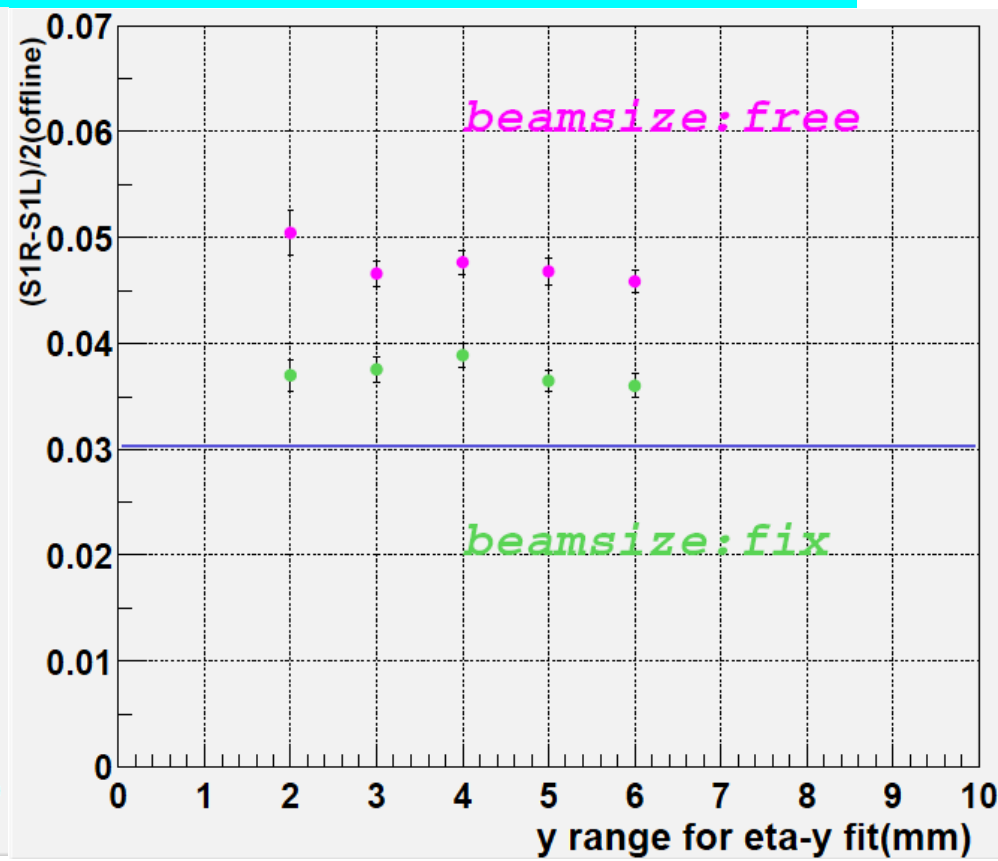




In case of beamsize is free, offline method is stable.

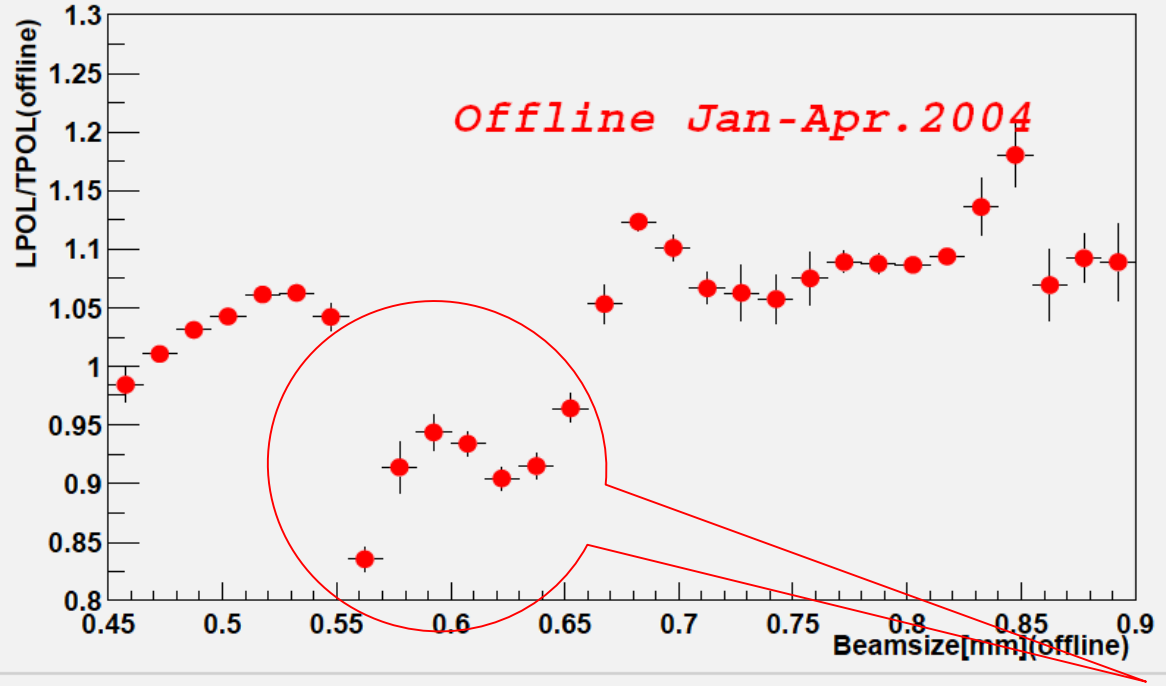
31st.Jan.2004

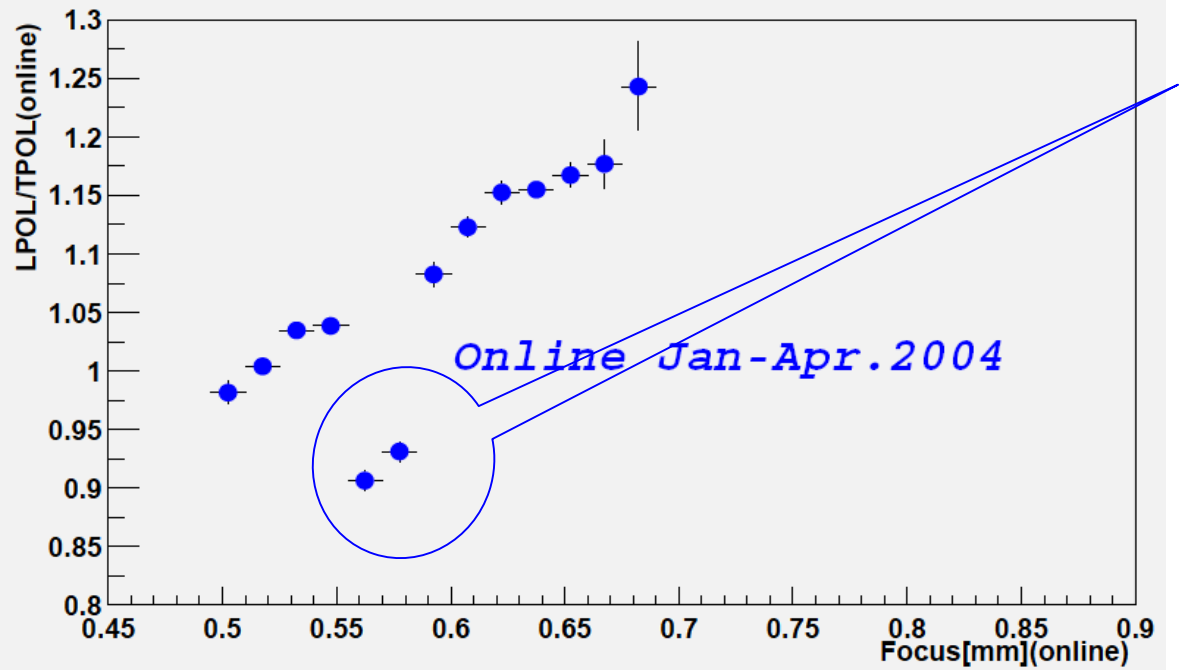




In both cases, free and fixed, offline is stable anyway.

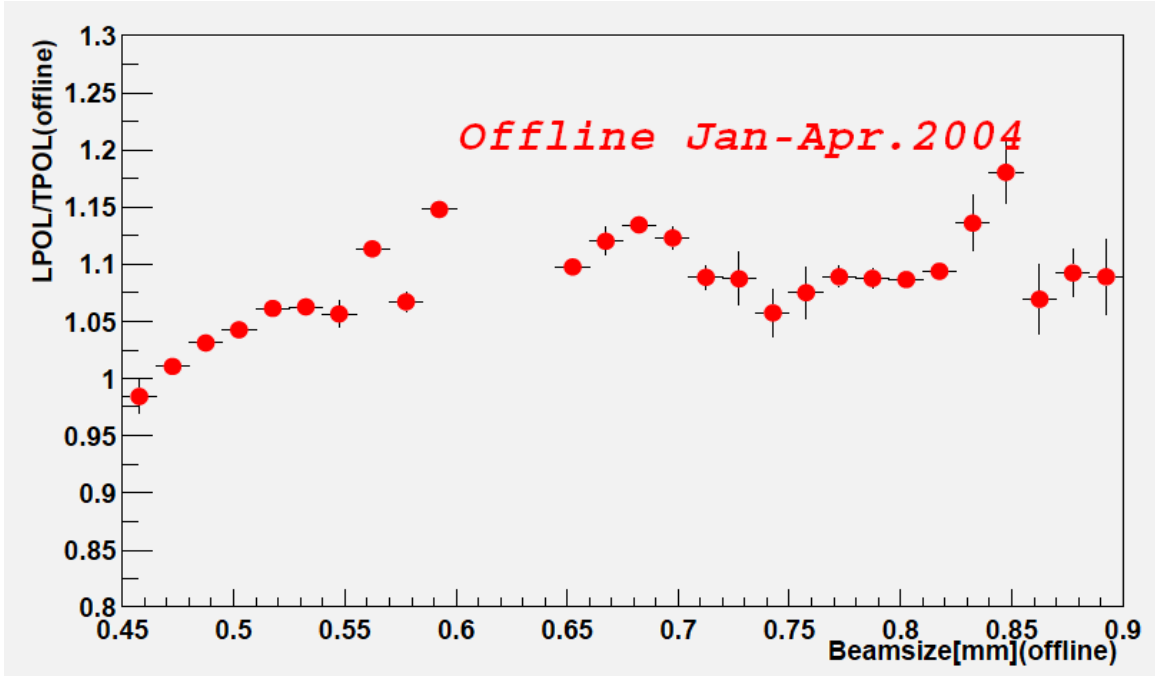
→It seems to be OK without beamsize fixed.

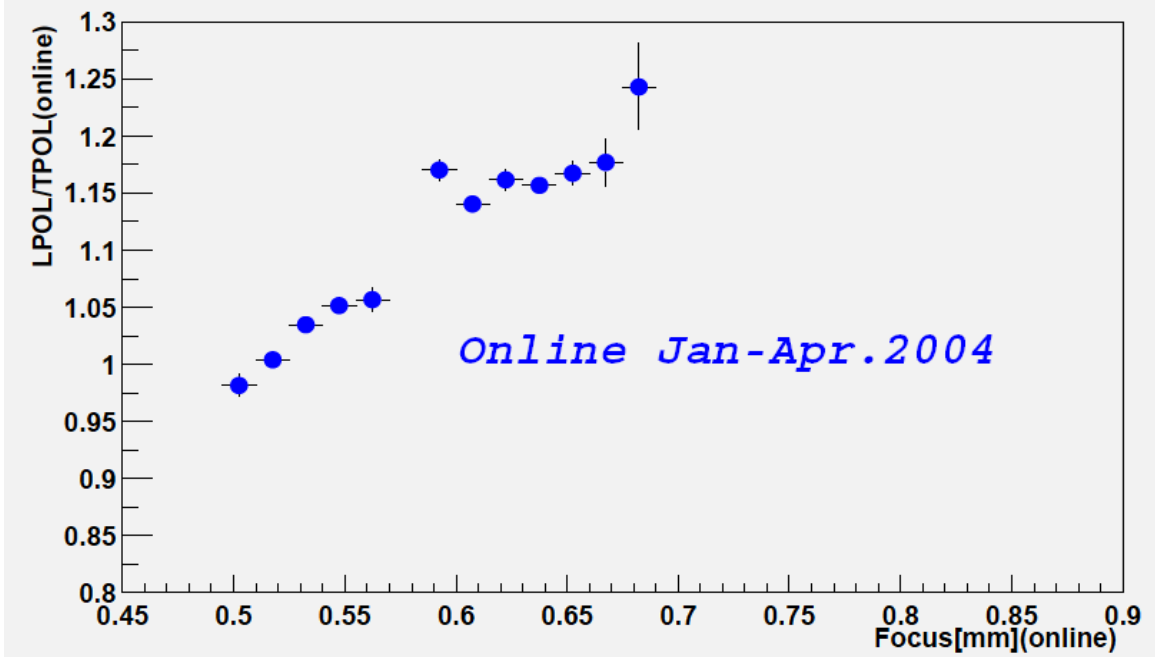




run28163~run28224

(around 7th.Mar.2004.)





- With sumS1 & eta-y fixed, the offline method can weaken beamsize dependence.

Summary

- Offline method is unstable, unless eta-y and sumS1 are fixed.
- From a viewpoint of the stability, it is not necessary to fix beamsize.
- With these parameters(eta-y,sumS1) are fixed, no y-range dependence.
- Offline method can not completely absorb the beamsize dependence.
  - More check the beamsize, deltaS1,……etc.