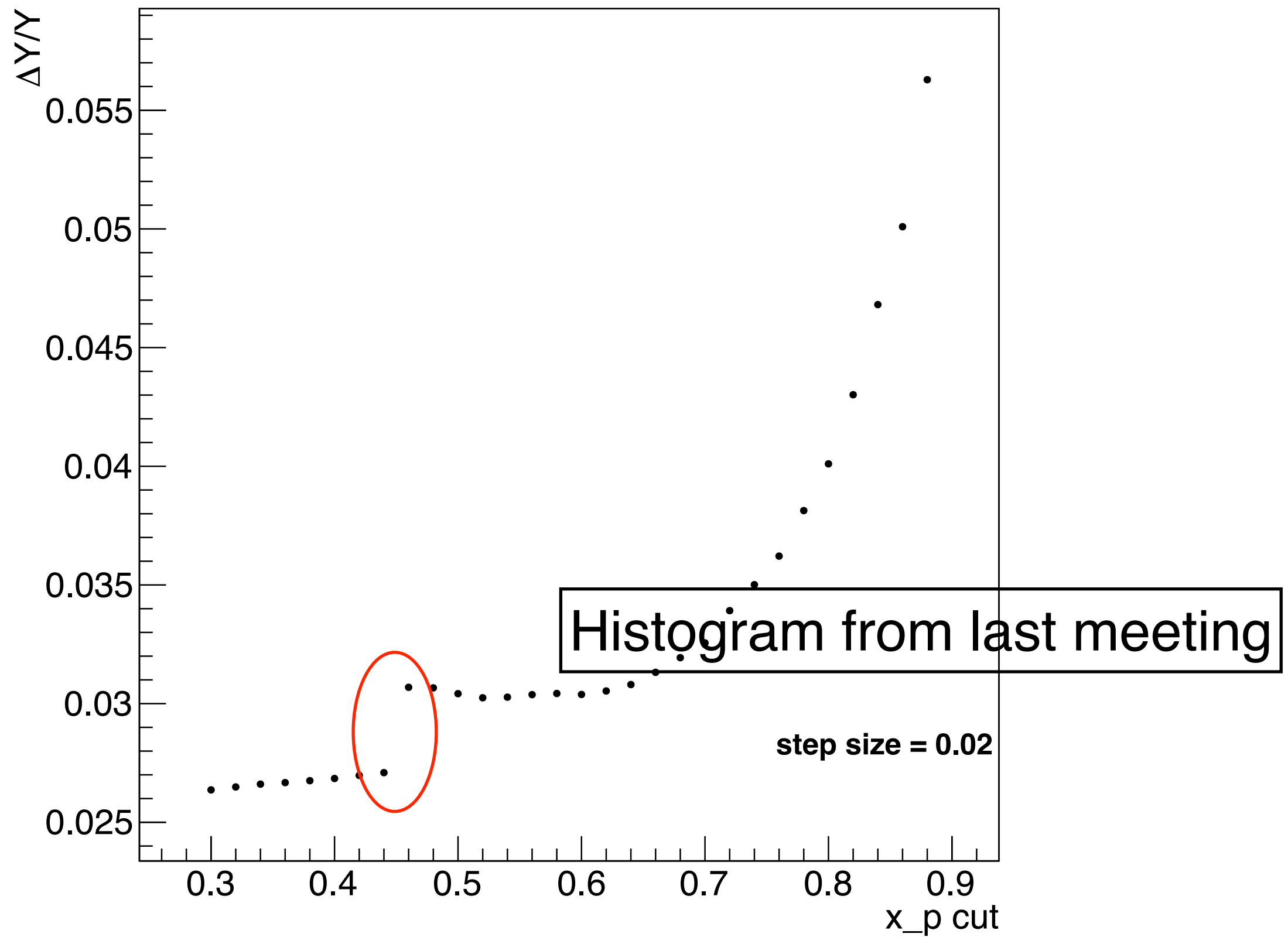


Status Report

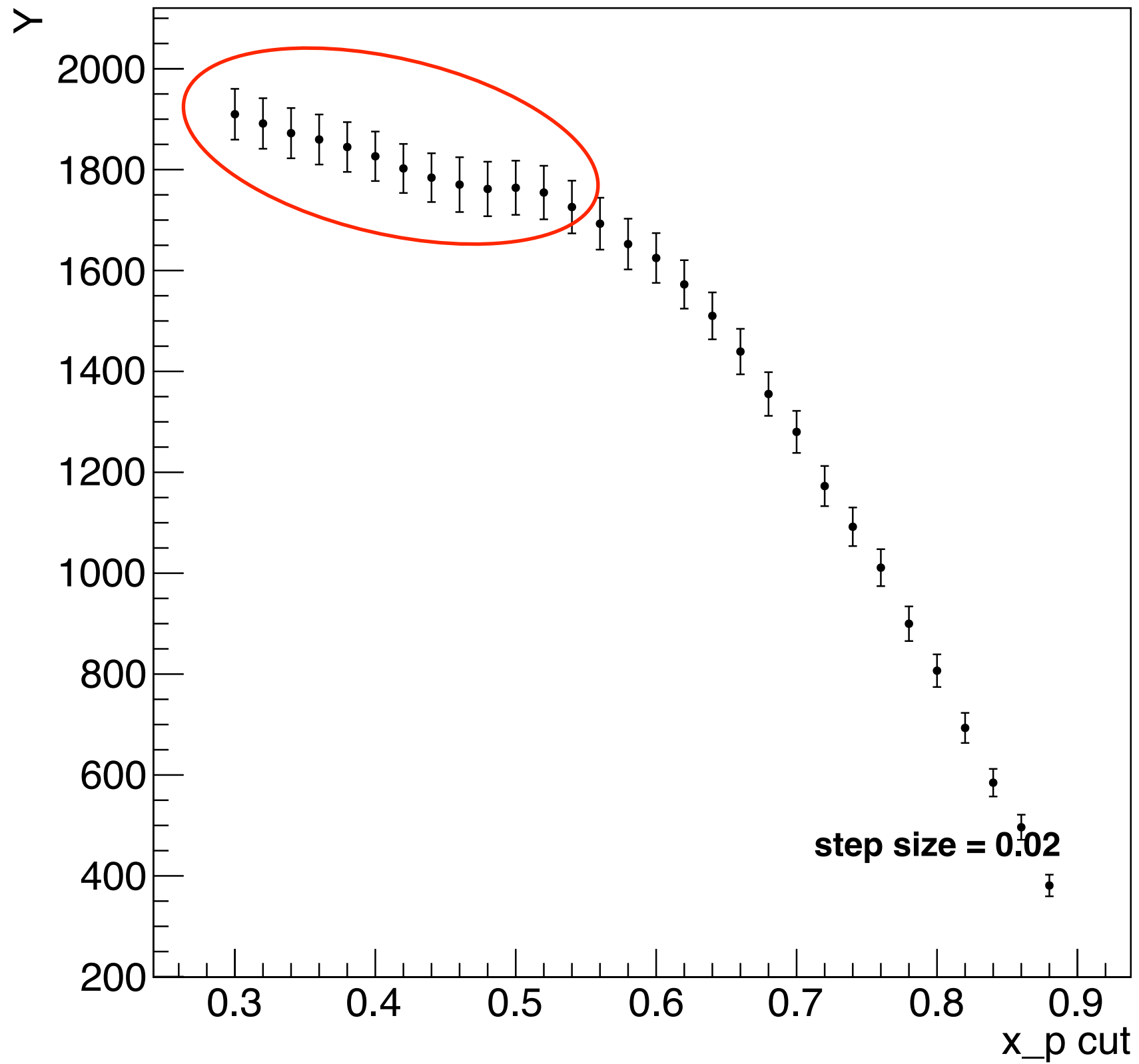
- X_p cut optimization-

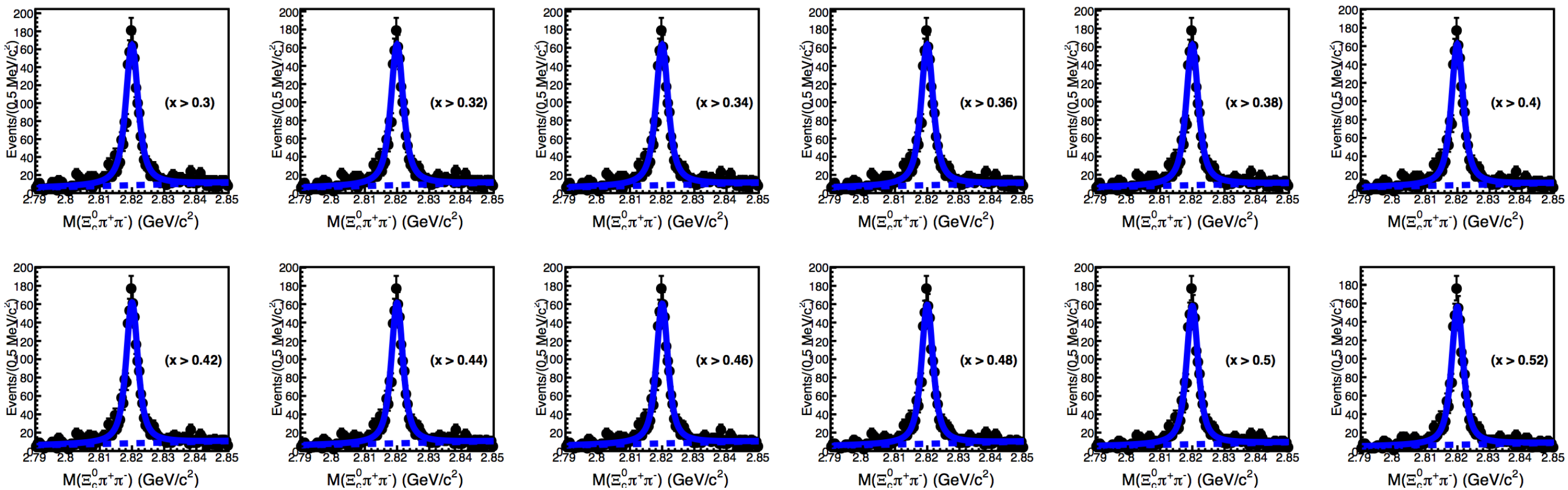
Taejin Moon
June 1 2017

$\Delta Y/Y$



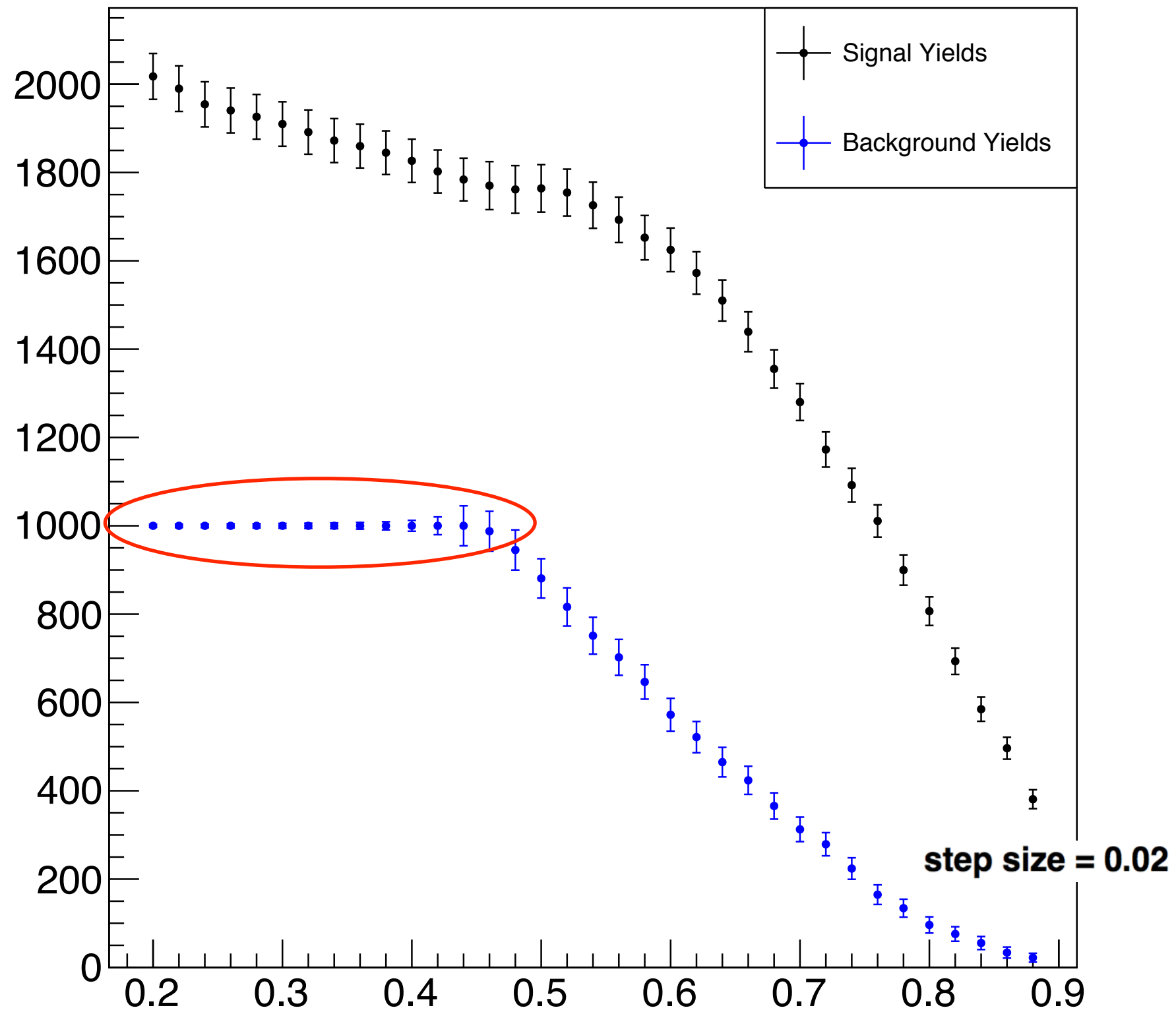
Υ with $\Delta\Upsilon$





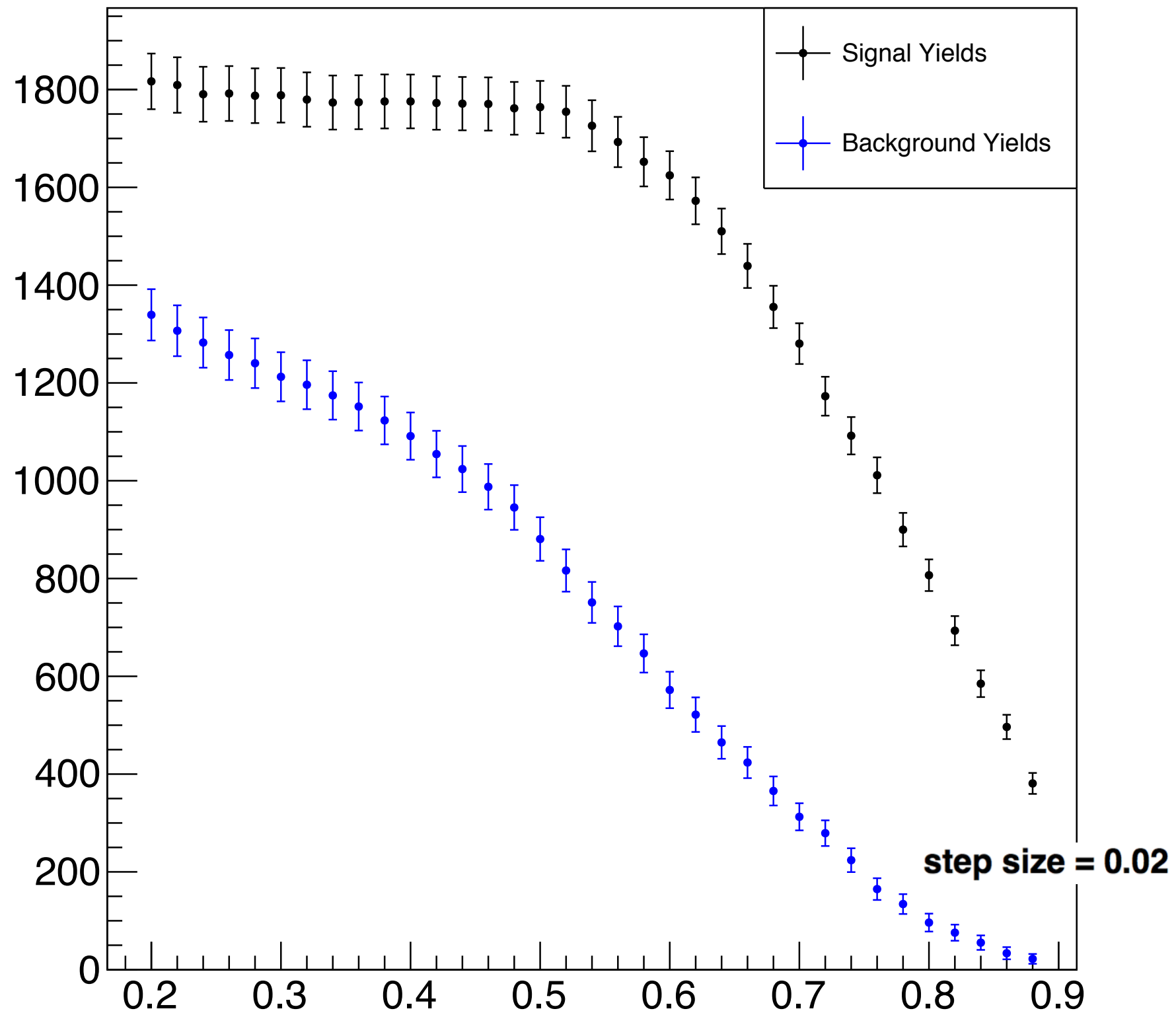
But, signal yields seems similar.

Yeilds



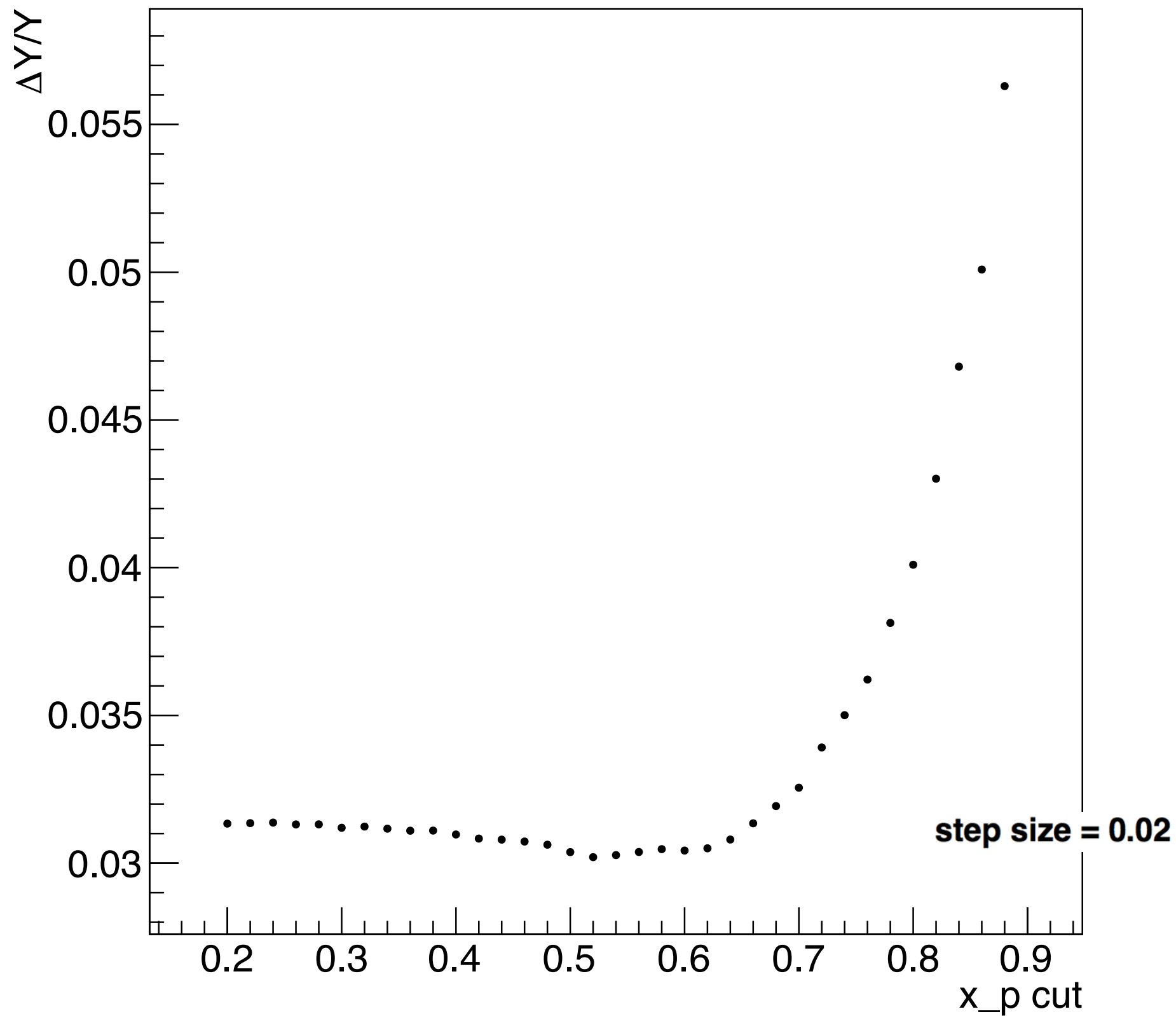
Yeilds

After loosing background yield limit



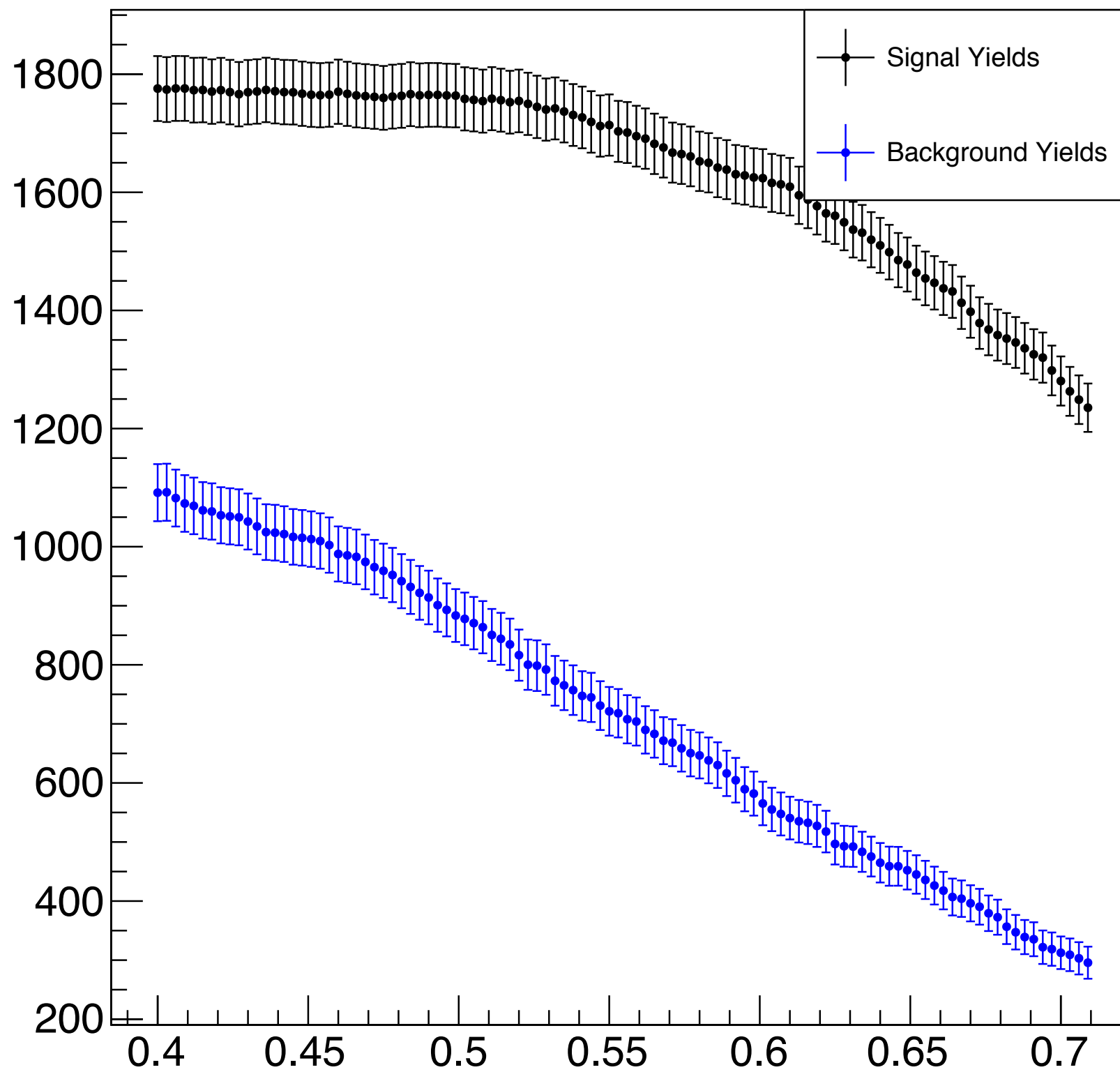
$\Delta Y/Y$

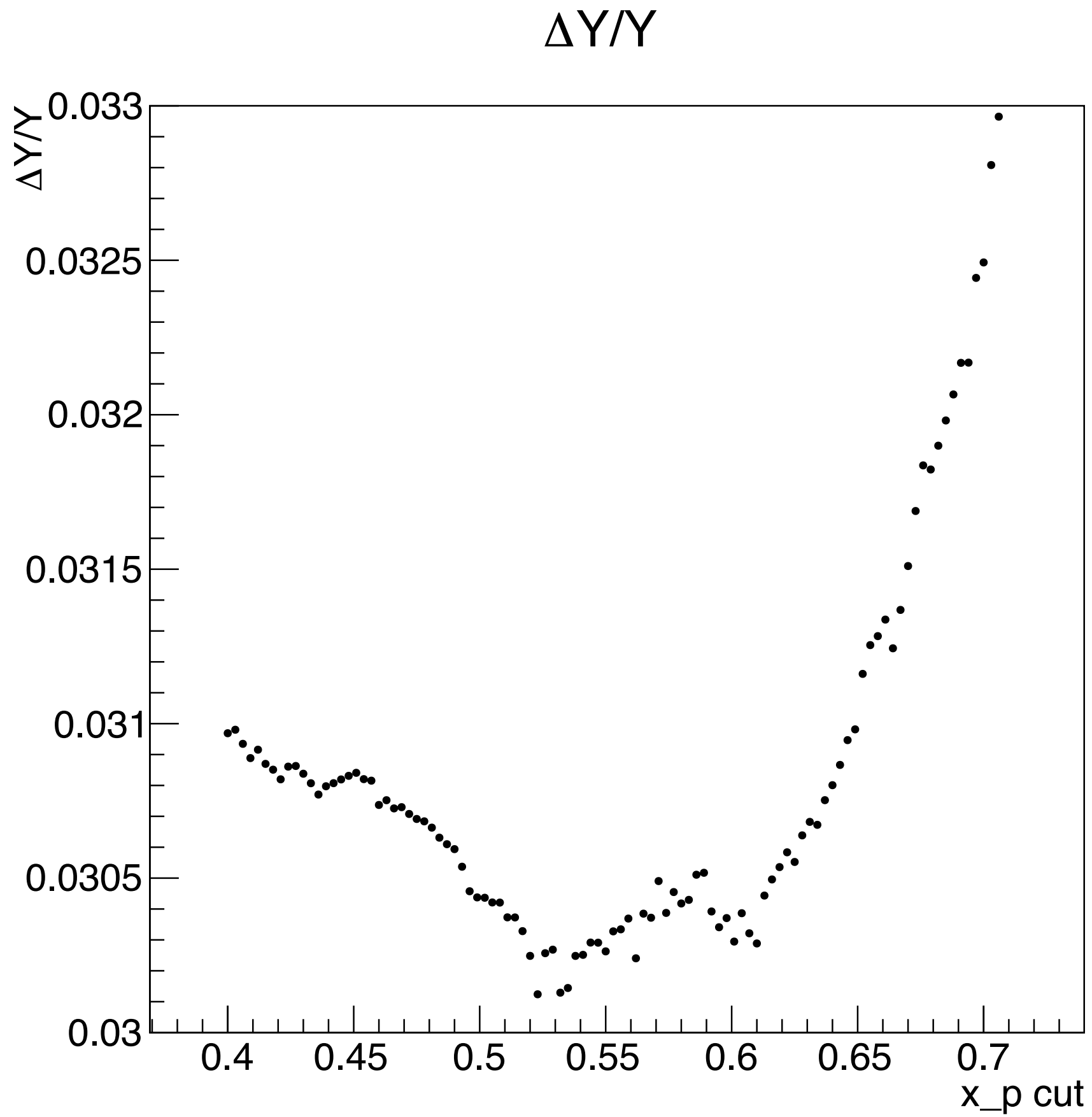
After loosing background yield limit



For smaller step size =
0.003
(previously 0.02)

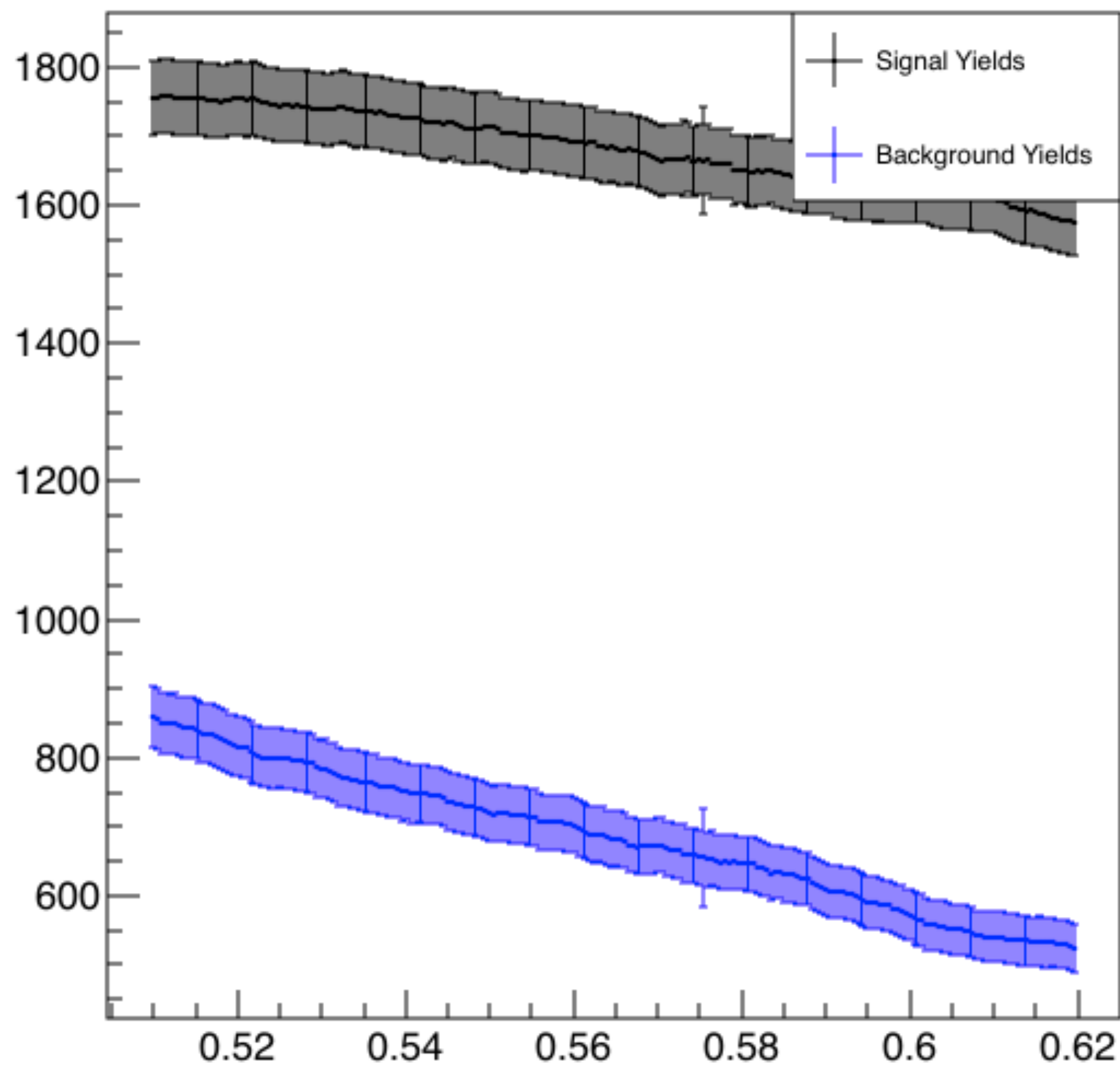
Yeilds

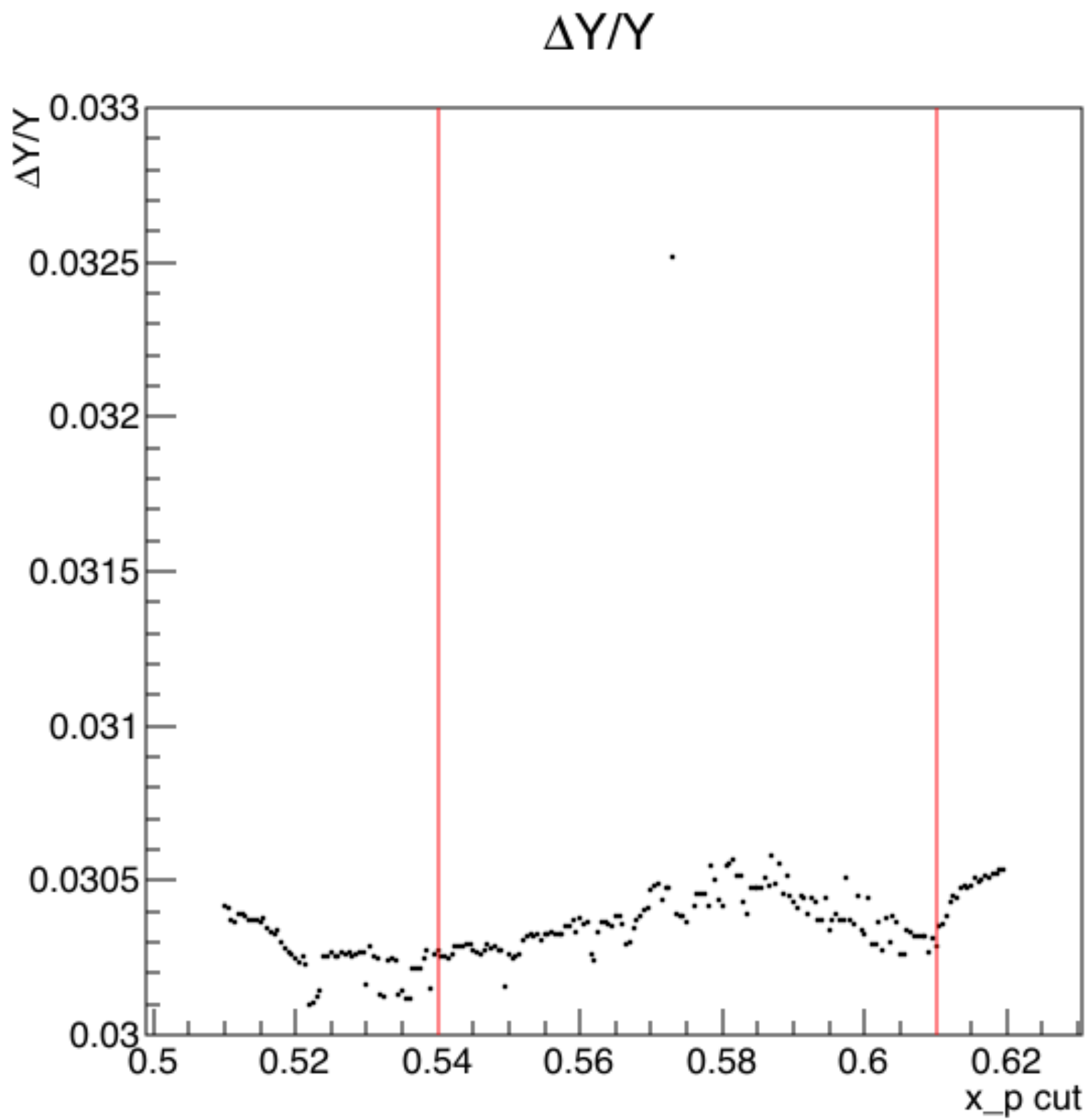


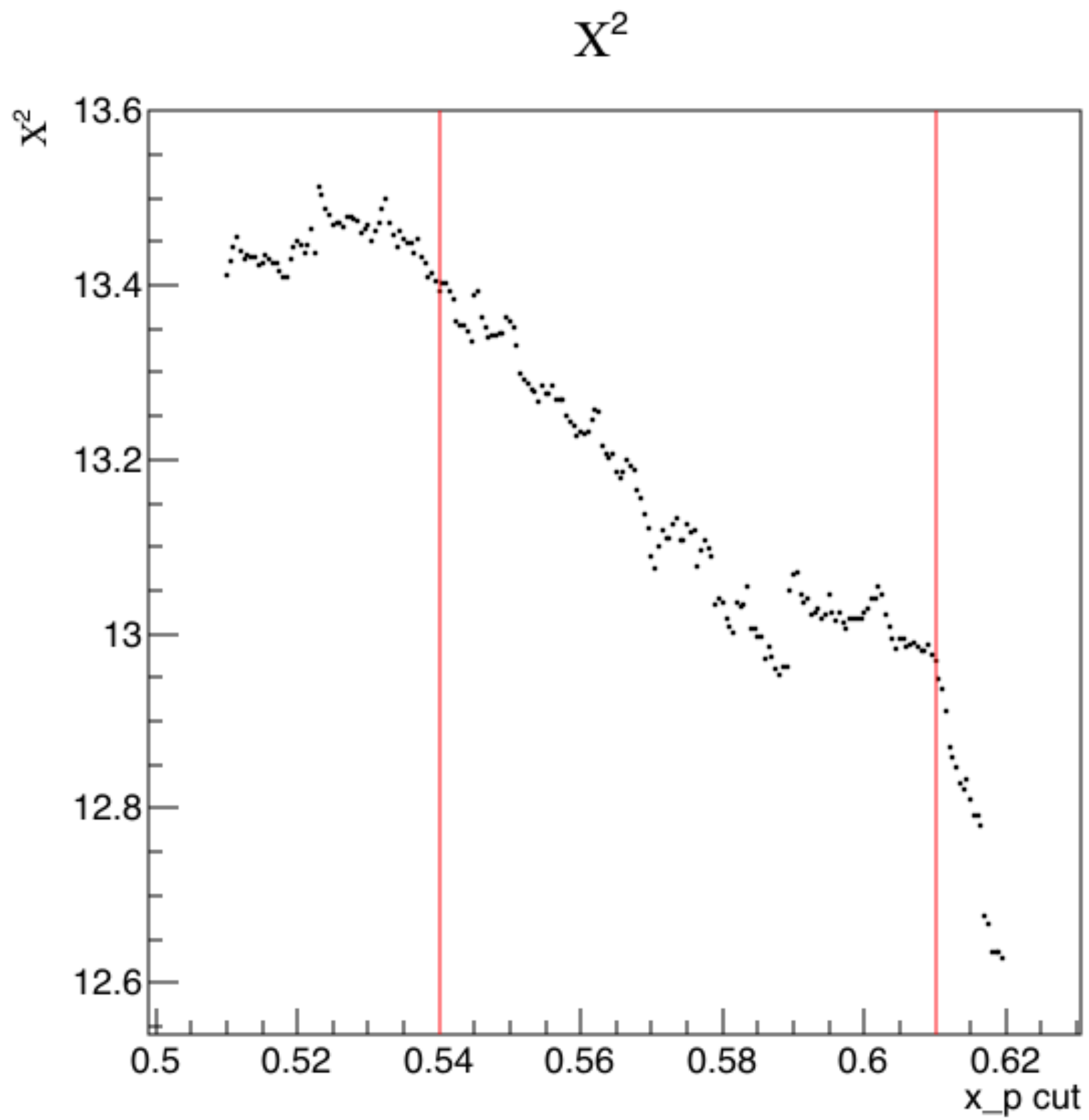


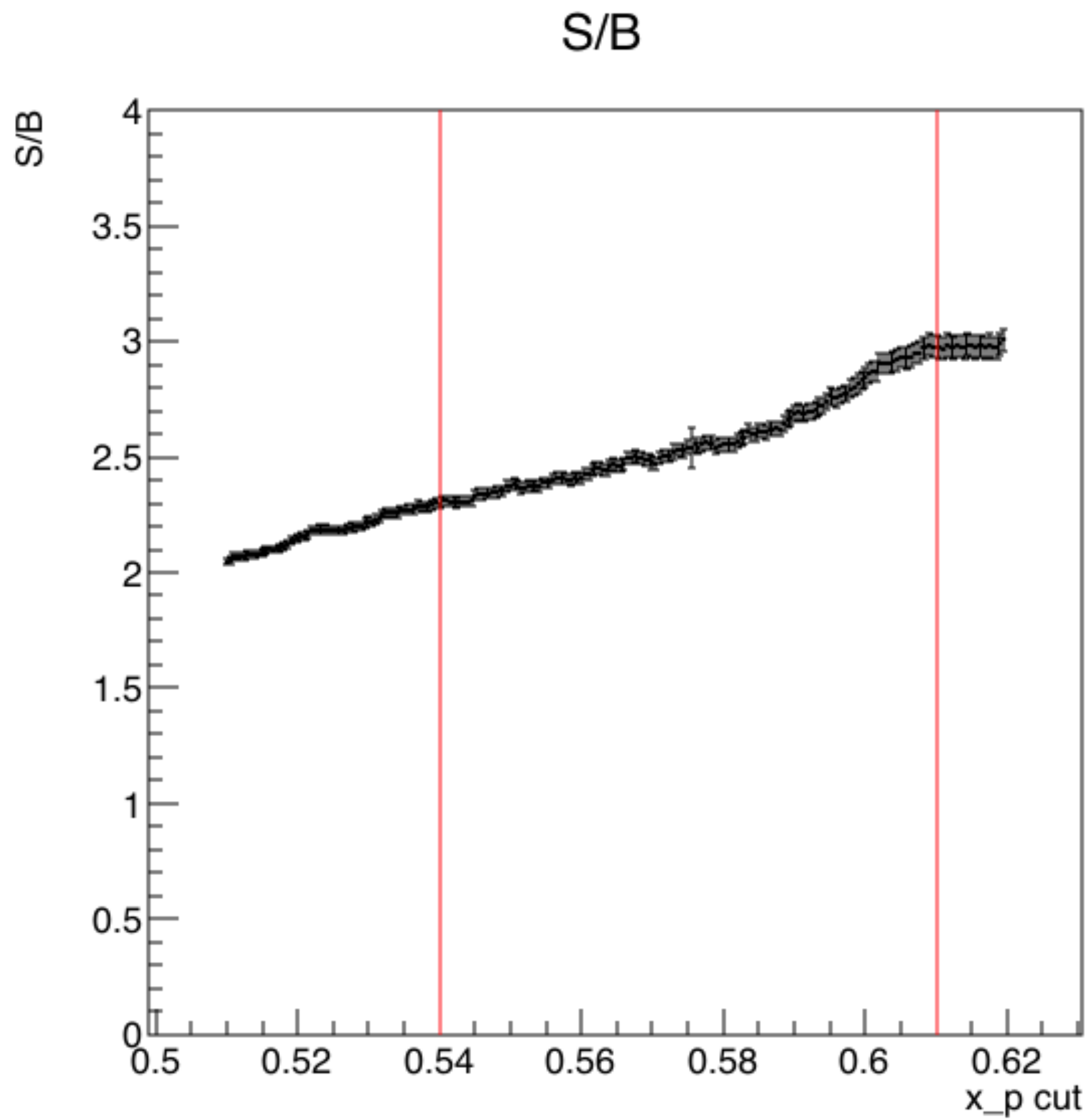
For smaller step size =
0.0005
(previously 0.003)

Yeilds









Summary

- x_p cut 값이 "0.52-0.61" 구간에서는 $\Delta Y/Y$ 극소값 근처에 분포.
- Yield를 고려했을때는 0.52, S/B를 고려했을때는 0.61이 유리.
- 범위를 위와 같이 줄여놓고 다음 분석을 진행예정.
- x_p cut 최적화를 $\Xi^+(2815)$, $\Xi^0(2980)$, $\Xi^+(2980)$ 에 대해 진행.