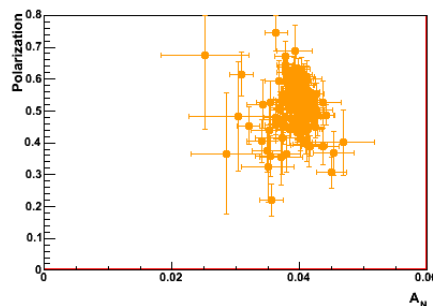
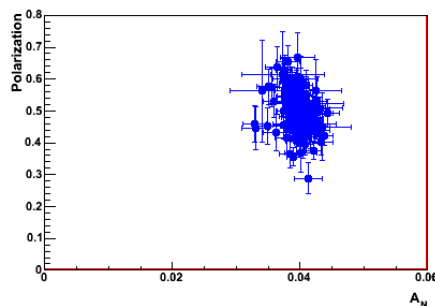
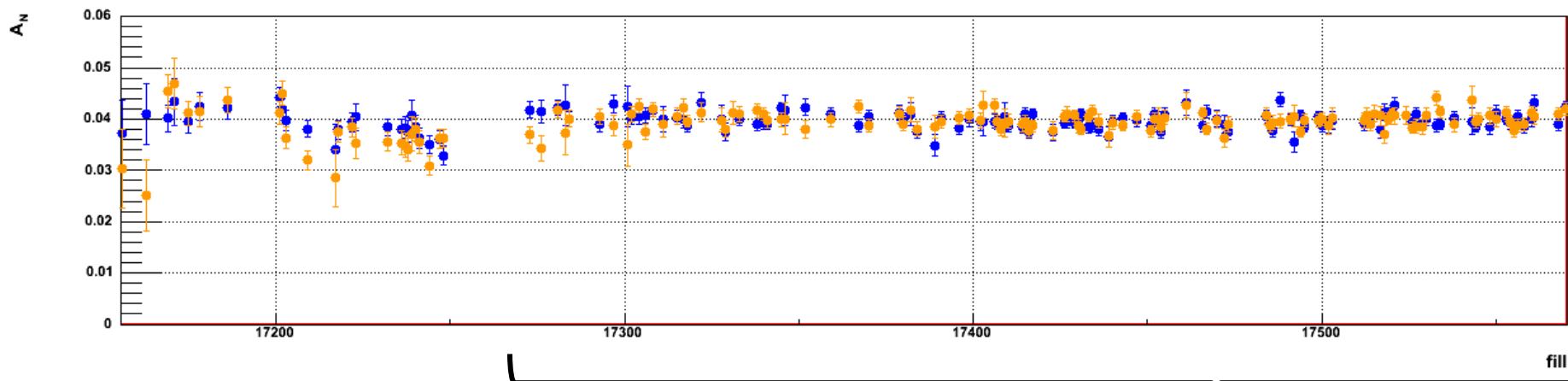
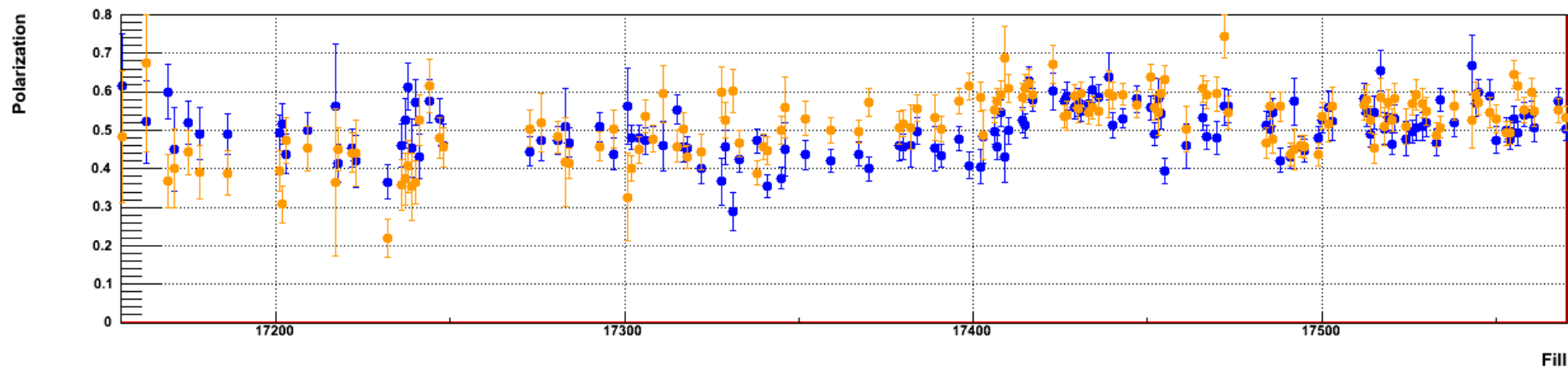


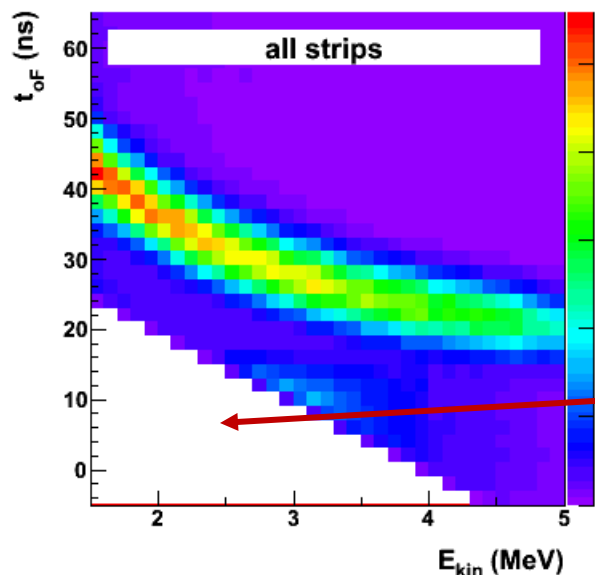
# Jet Target Asymmetries



$$\chi^2/ndf=122/115$$

$$\chi^2/ndf=119/115$$

# Elastic p+p Signal



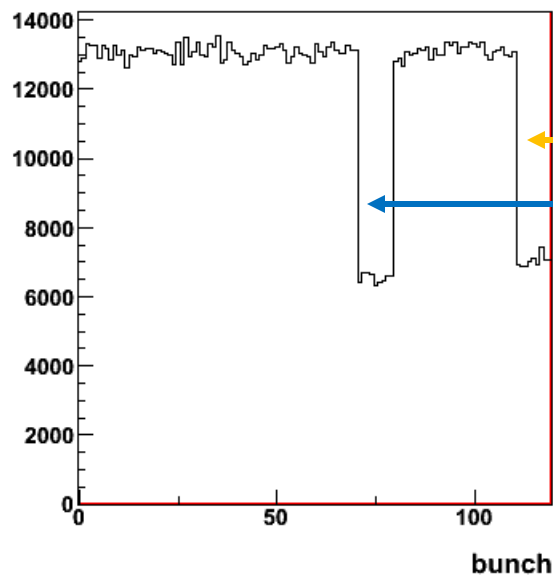
May 30, 2013

Fill 17568

$\approx 8$  hours

basic event filter:

- remove most prompts
- cut on missing mass

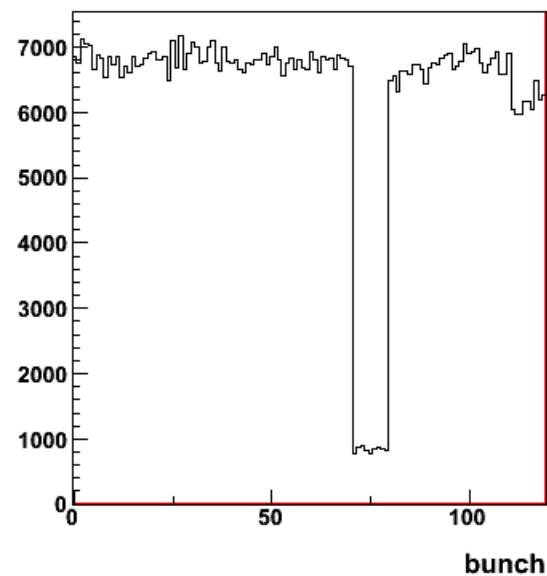
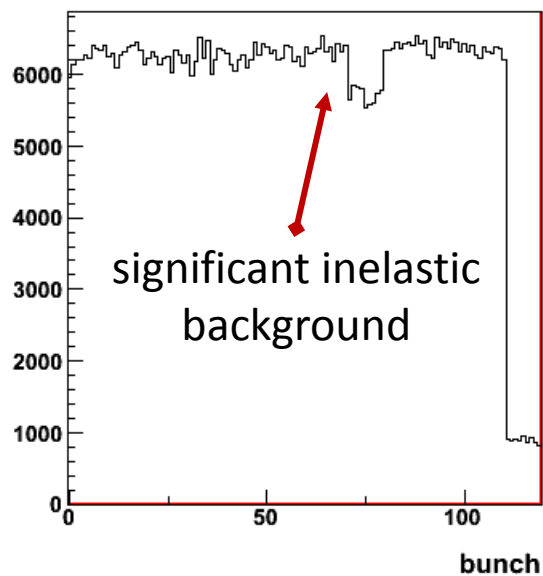
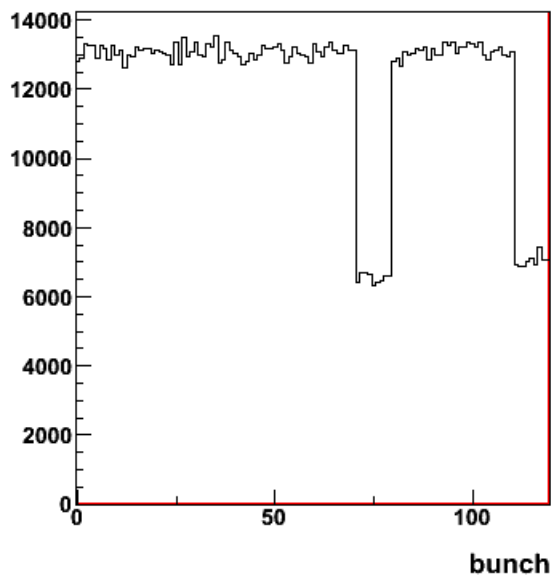
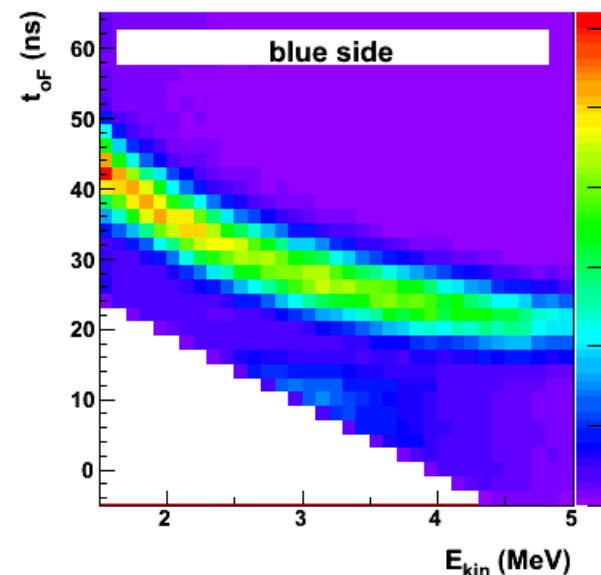
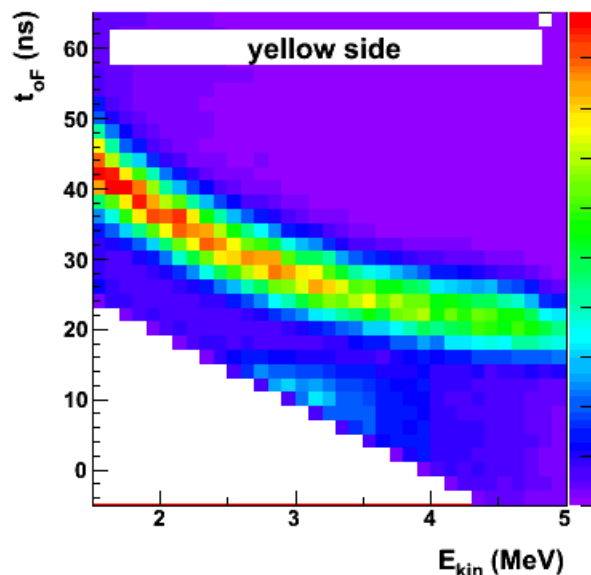
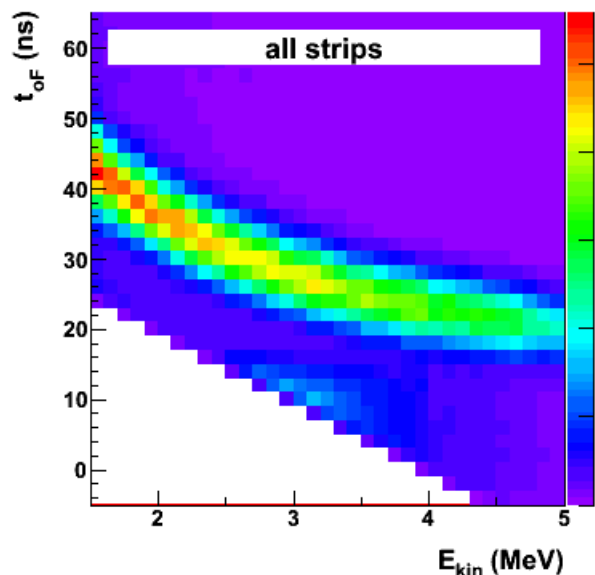


yellow abort gap

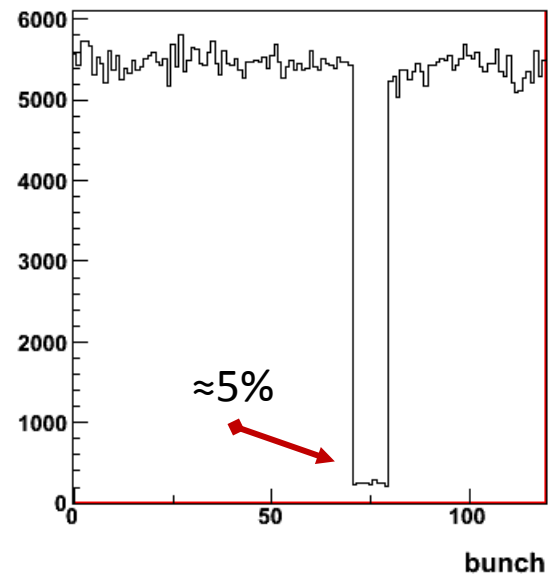
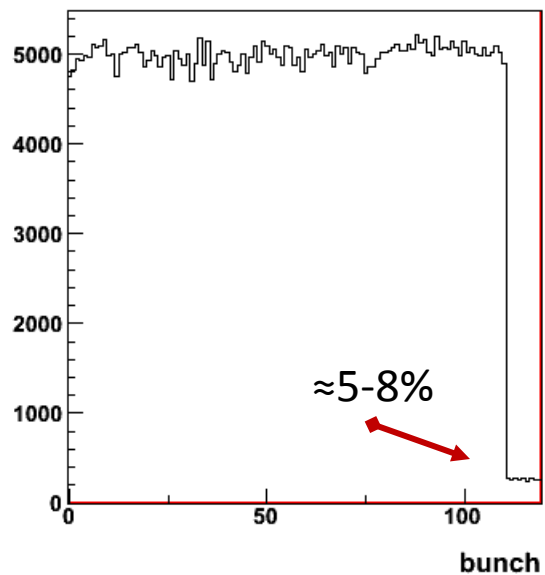
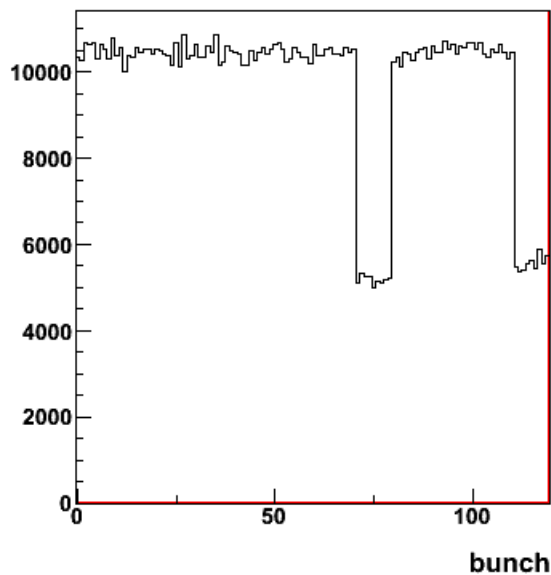
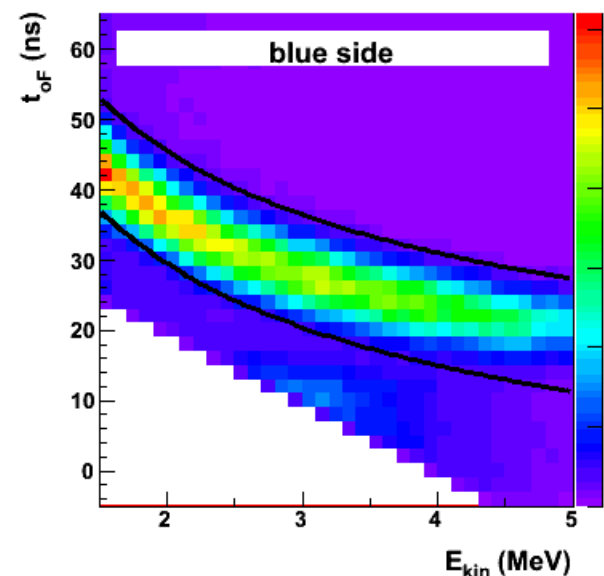
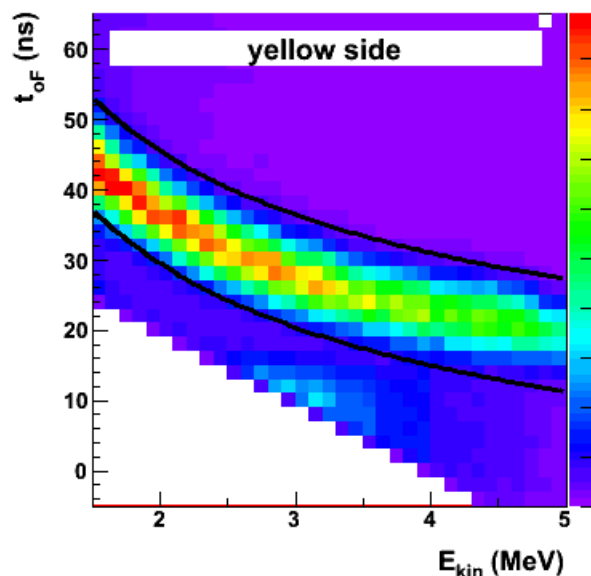
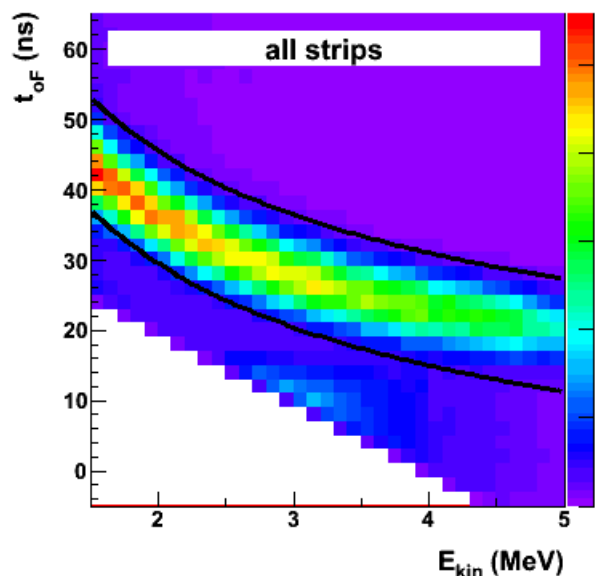
blue abort gap

very little or no background from other beam (?)

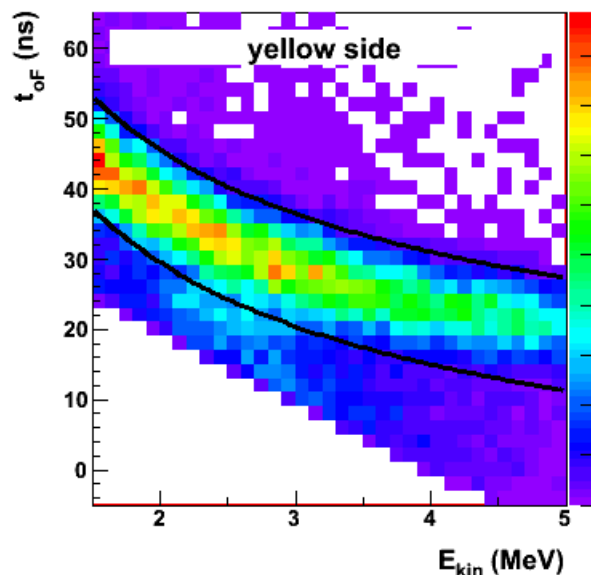
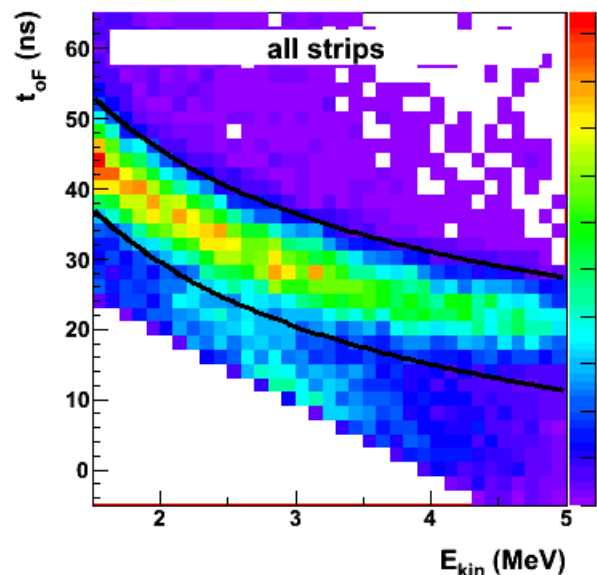
# Elastic p+p Signal



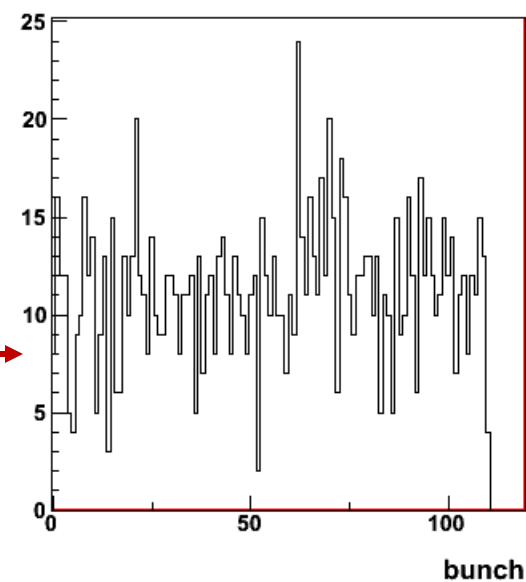
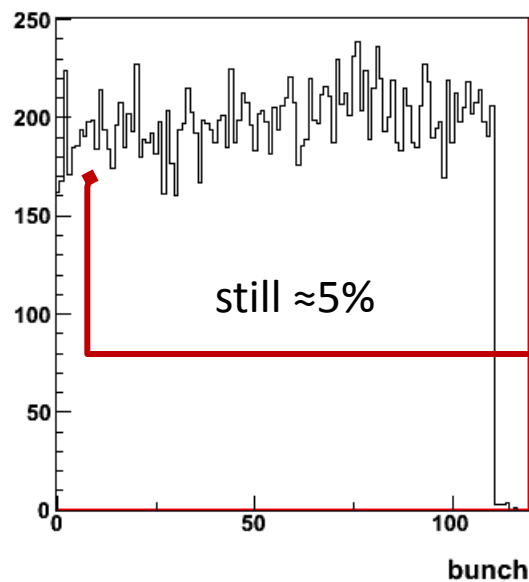
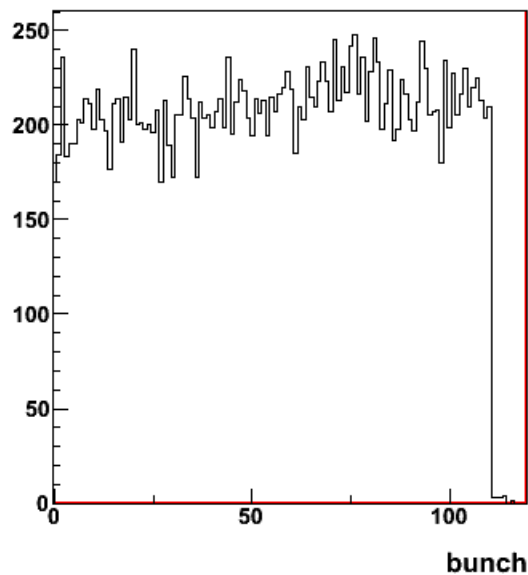
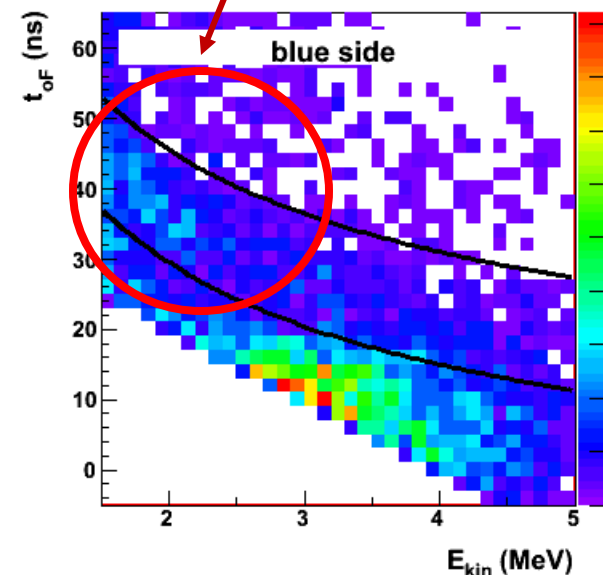
# Elastic p+p Signal



# Single Beam on Jet Target



elastic contribution  
from upstream?



# Background Studies

$$\varepsilon_{sig} = \frac{\varepsilon_{inc} - r \cdot \varepsilon_{bg}}{1 - r}$$

Assuming  $r \approx 0.1$  and  $\sigma_{bg} \approx \sqrt{12} \cdot \sigma_{inc}$   
Increased statistical uncertainty by  $\approx 20\%$

- Abort gap studies can be done, but will have changing conditions
- Single beam studies will help with understanding of the background
- Displaced beams can still contribute to background
- Contributions from blue beam seem to be worse

$$\varepsilon_{inc,max} \approx 0.04$$

15 minutes in fill 17568  $\rightarrow \delta_{bg} \approx 0.03$   
8 hours  $\rightarrow \delta_{bg} \approx 0.005$