

# SVT Alignment v1 vs v2

Per Hansson Adrian 9/15/2015

## First few slides

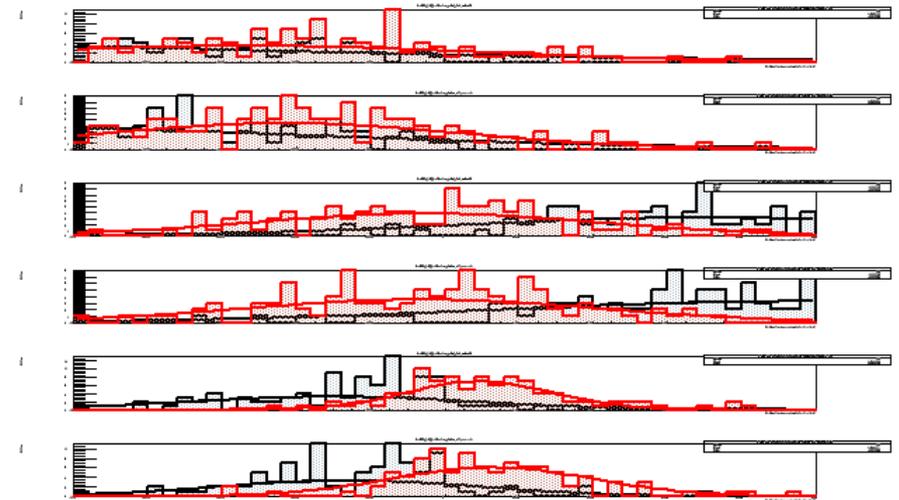
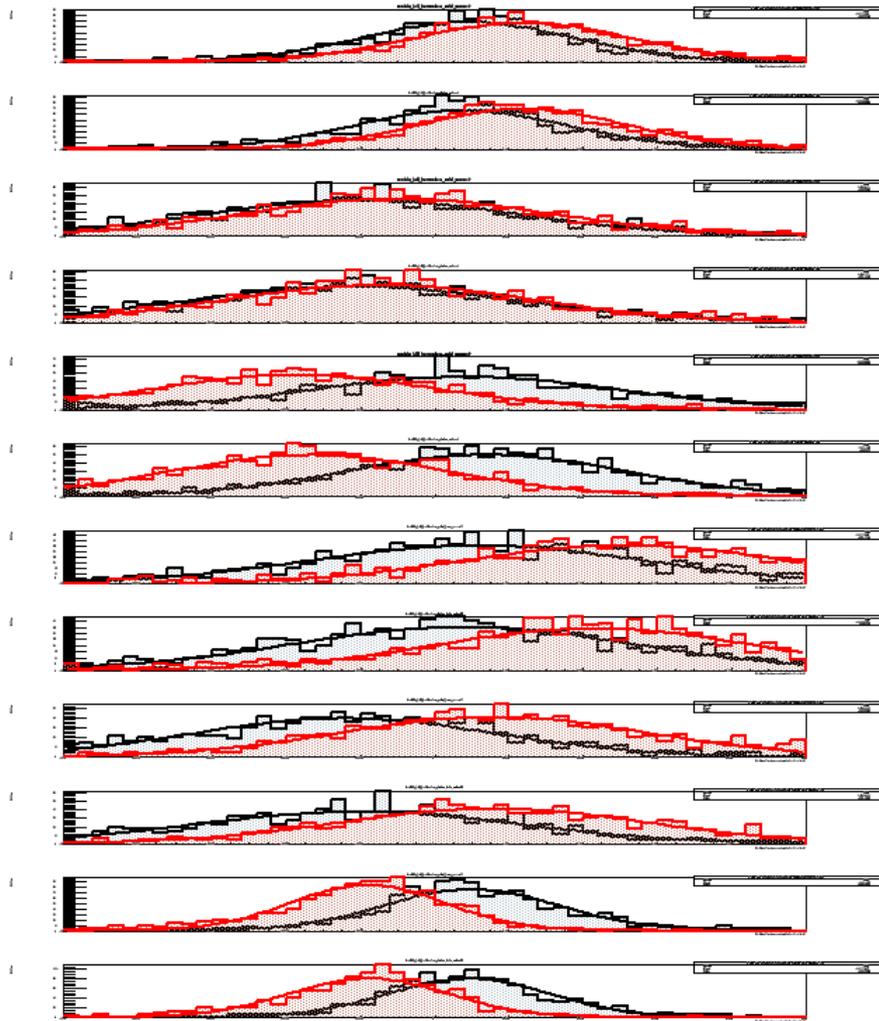
- Compare run 5772: v1 (black) vs v2 (red)
- Compare GBL residuals, lambda and phi kinks

## Last couple of slides

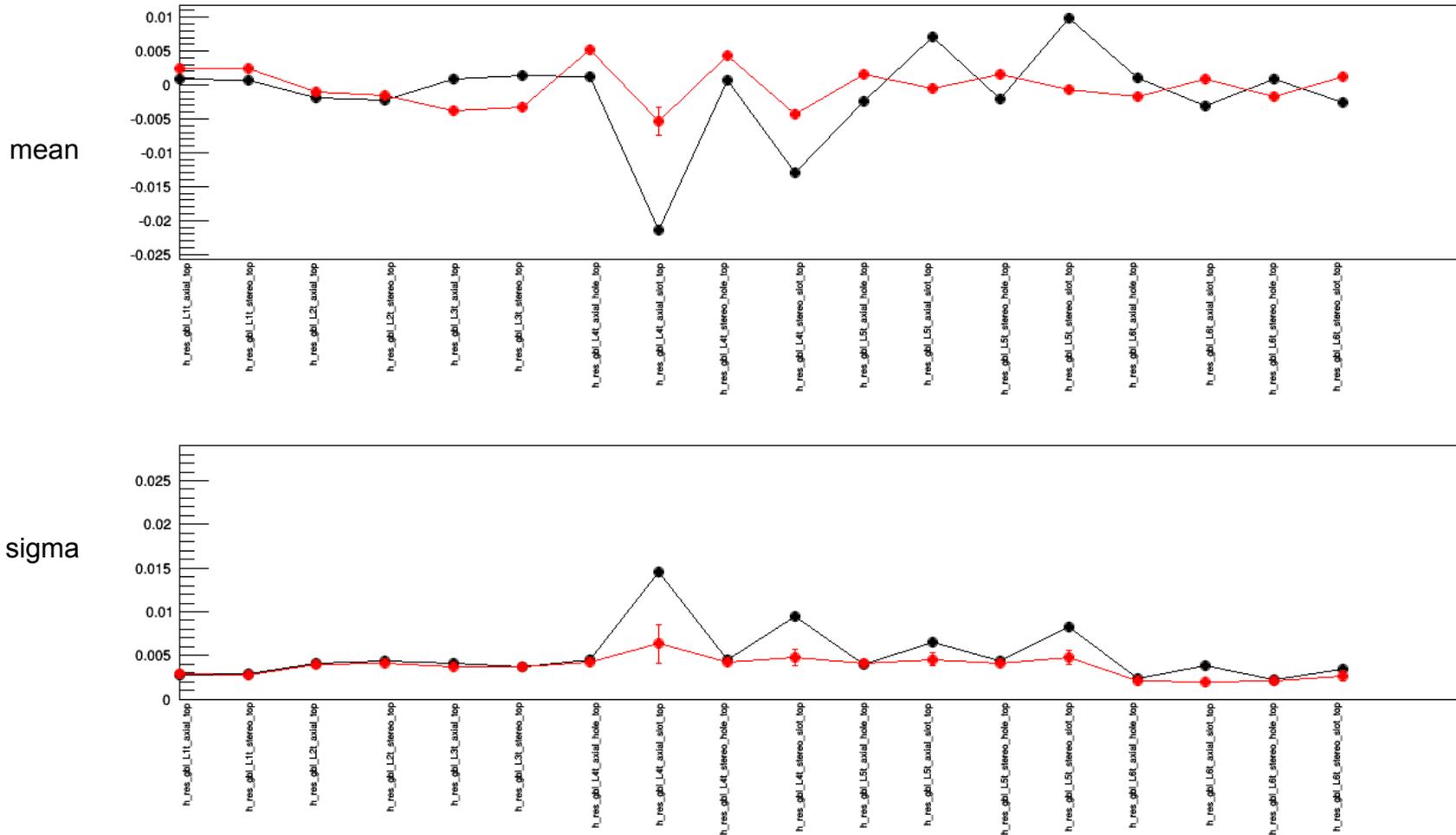
- Ideal detector simulation: v1

# GBL Residuals Top

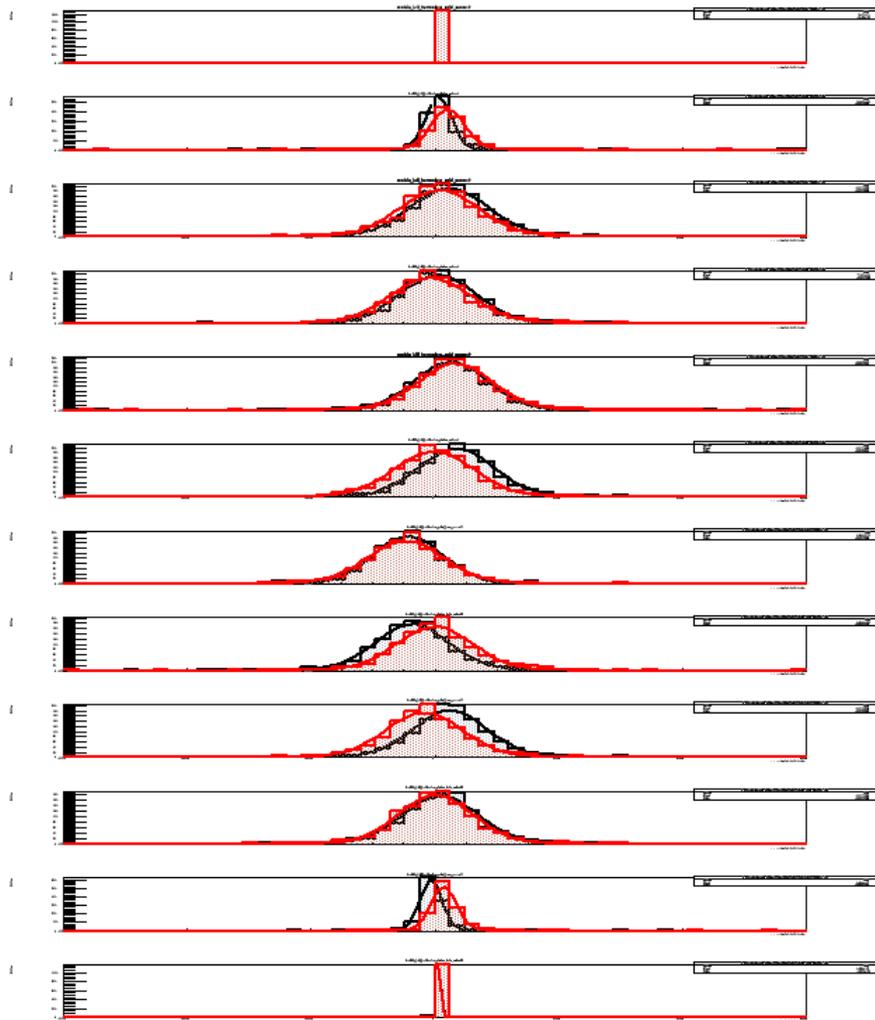
X-axis:  $\pm 0.01$   
5772



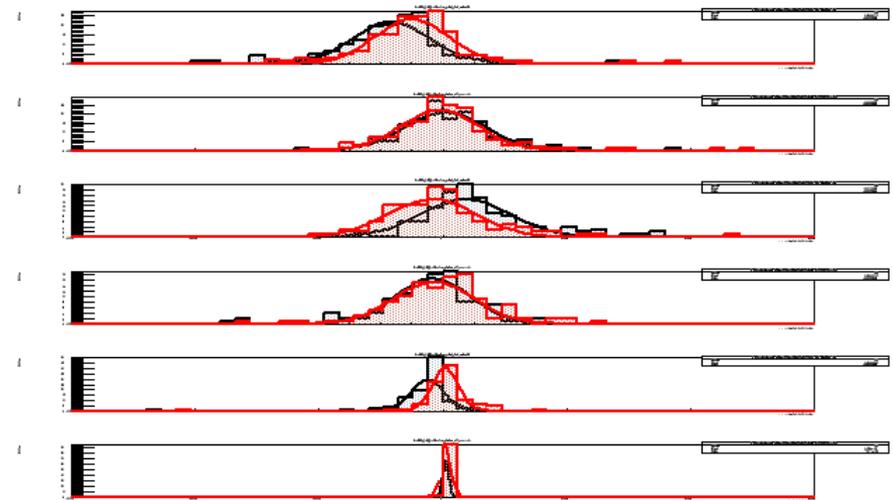
# GBL Residuals Top



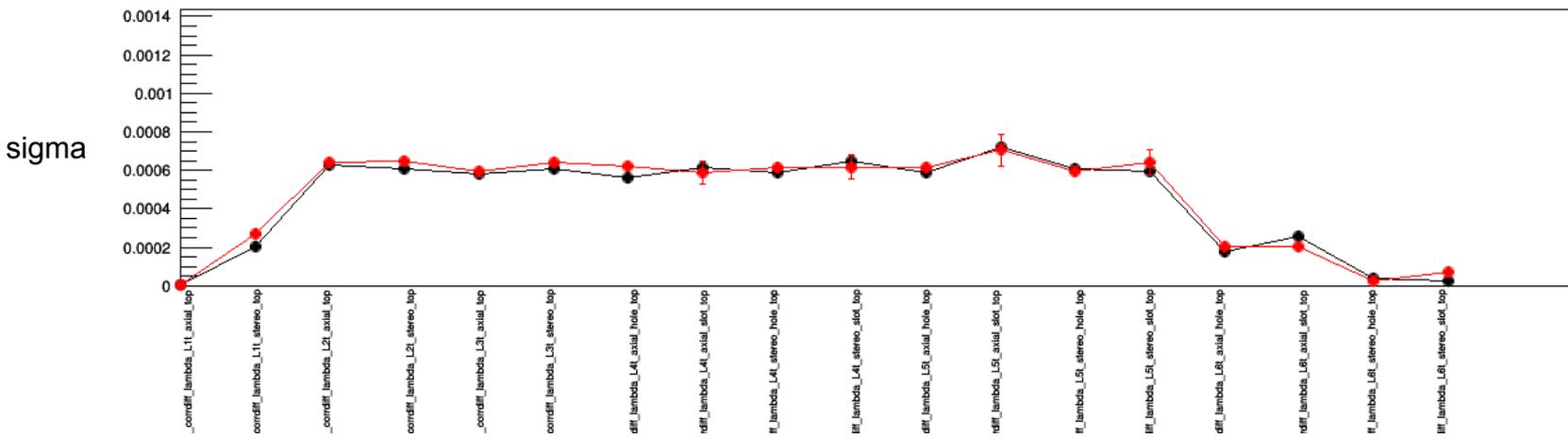
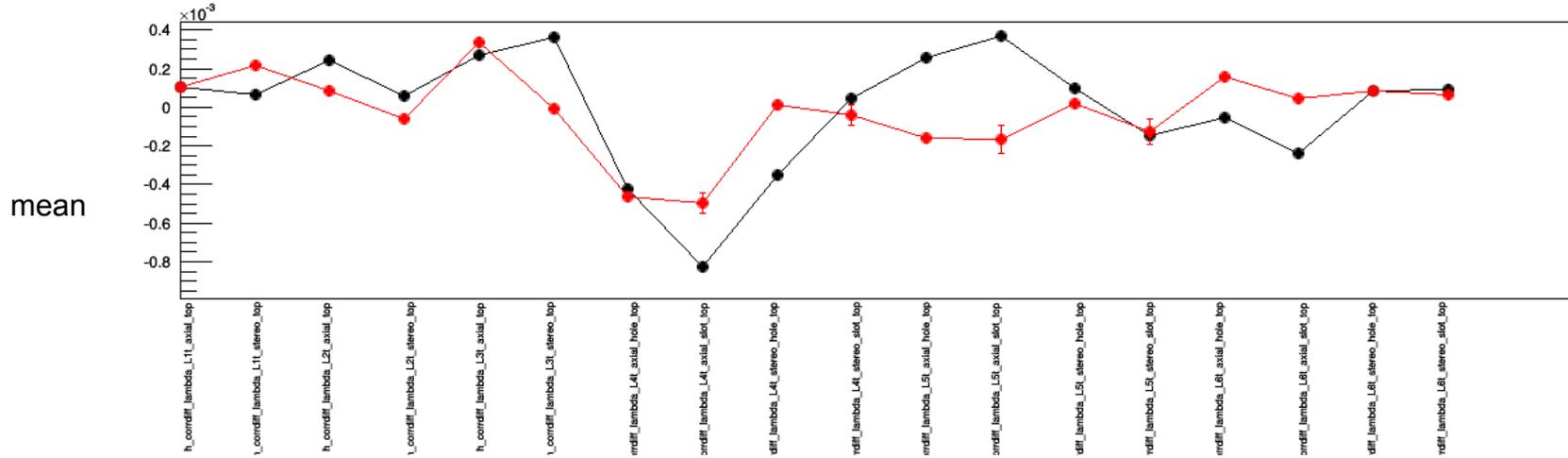
# GBL Kinks Lambda Top



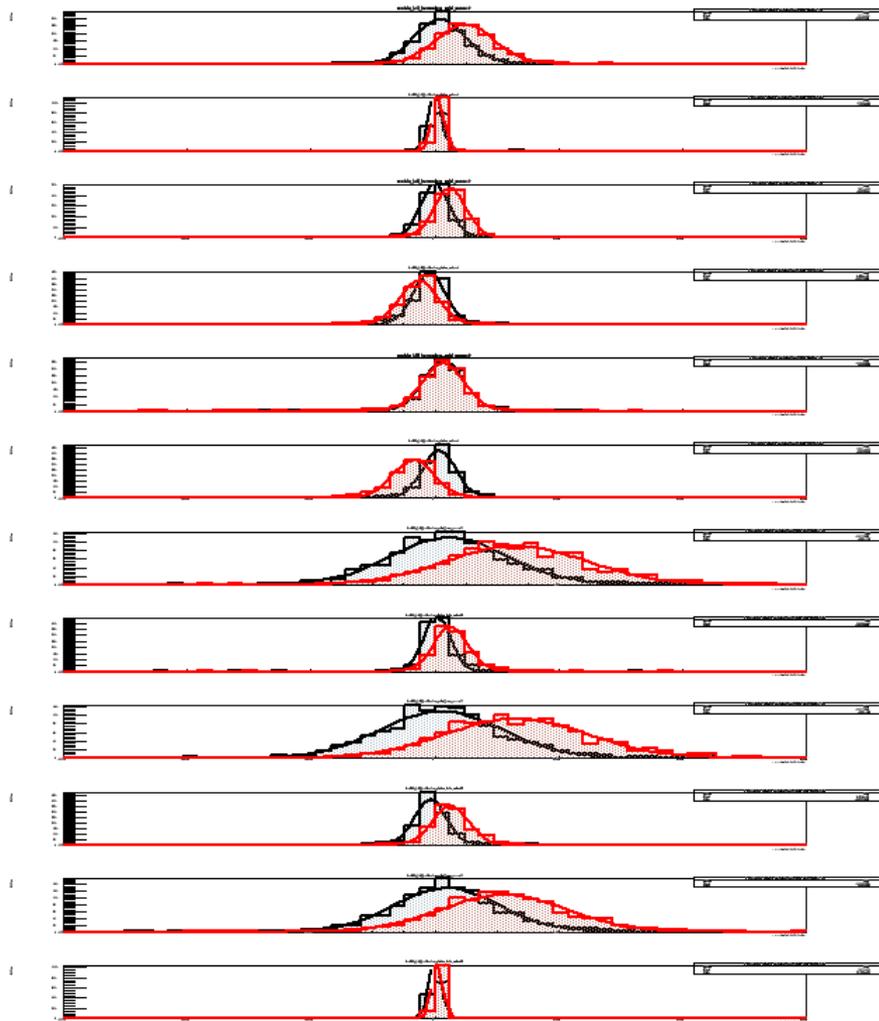
X-axis:  $\pm 0.006$   
5772



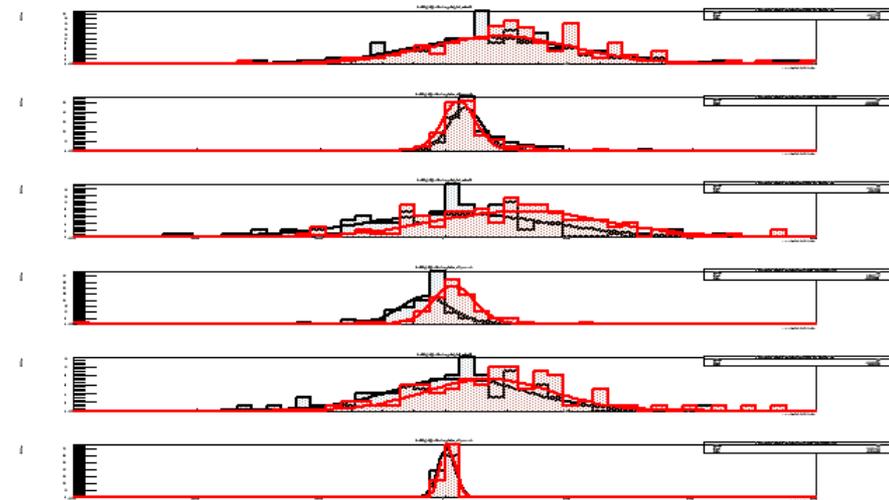
# GBL Kinks Lambda Top



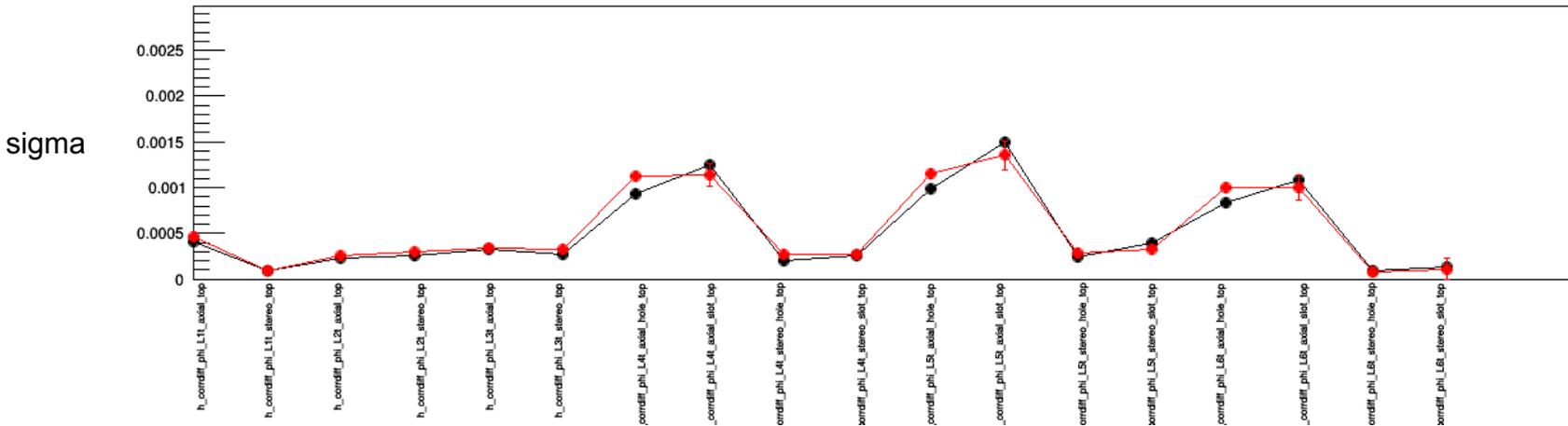
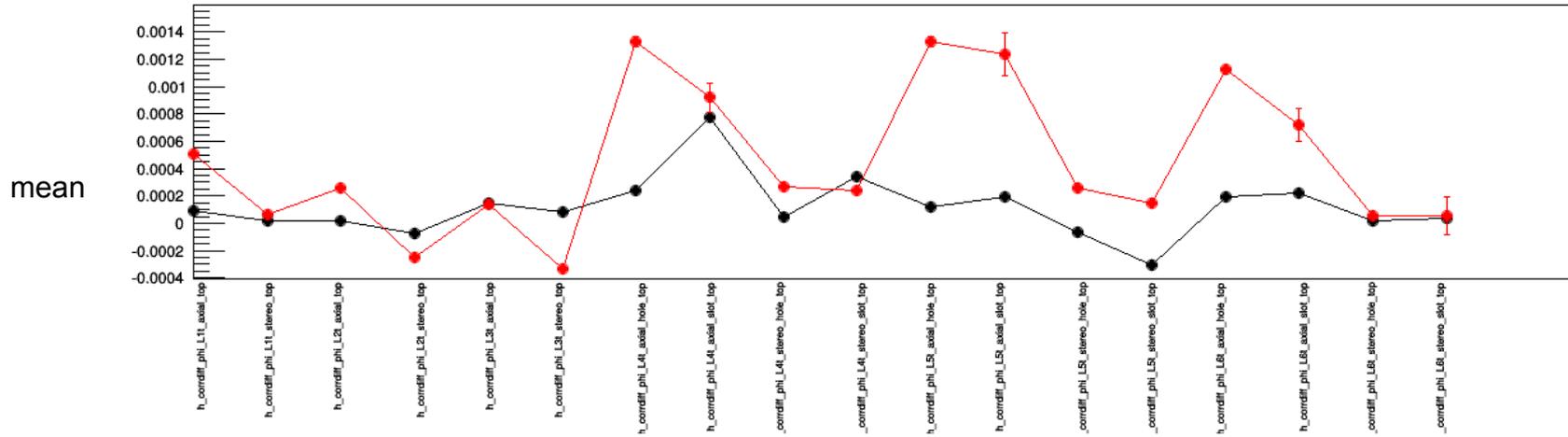
# GBL Kinks Phi Top



X-axis:  $\pm 0.007$   
5772

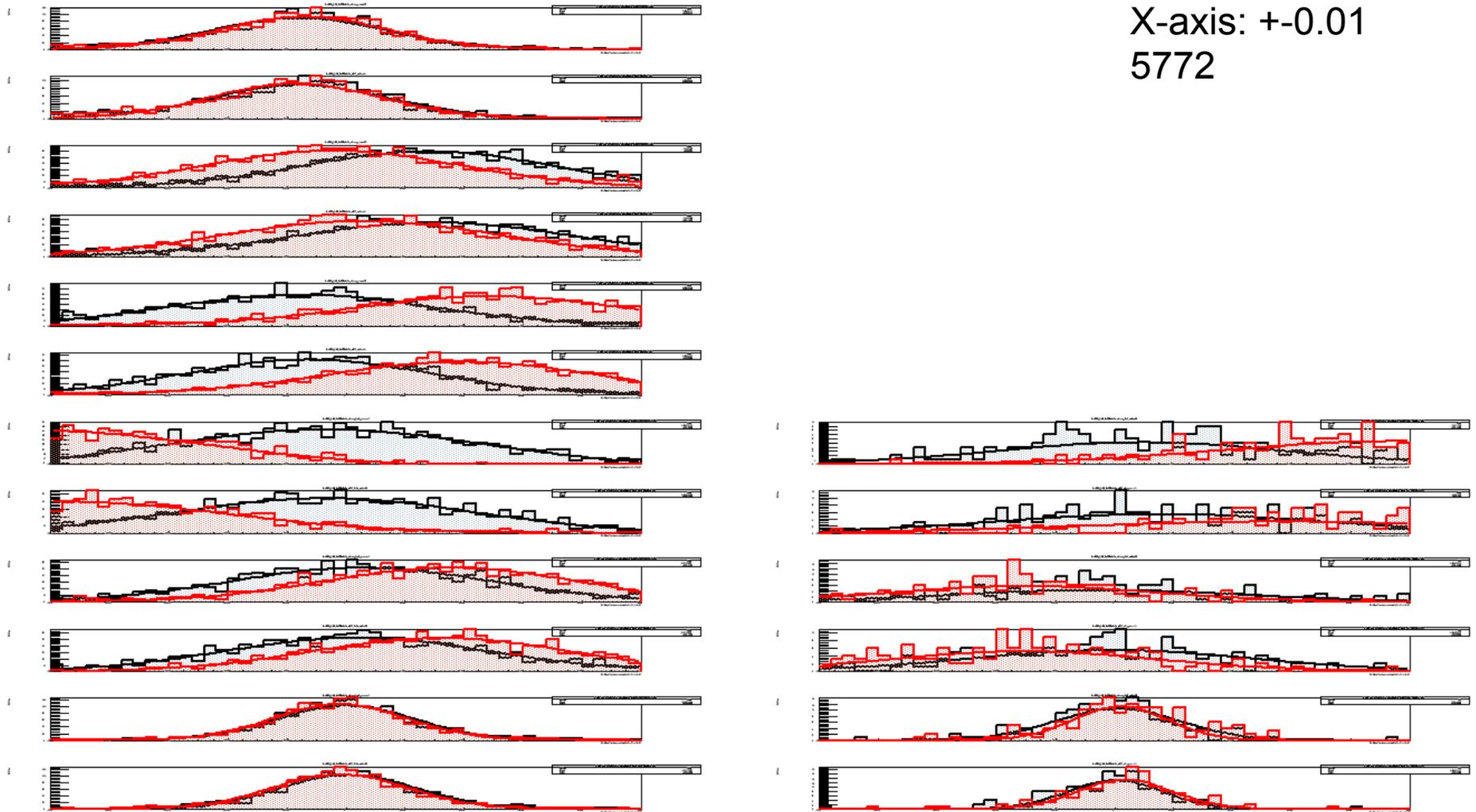


# GBL Kinks Phi Top

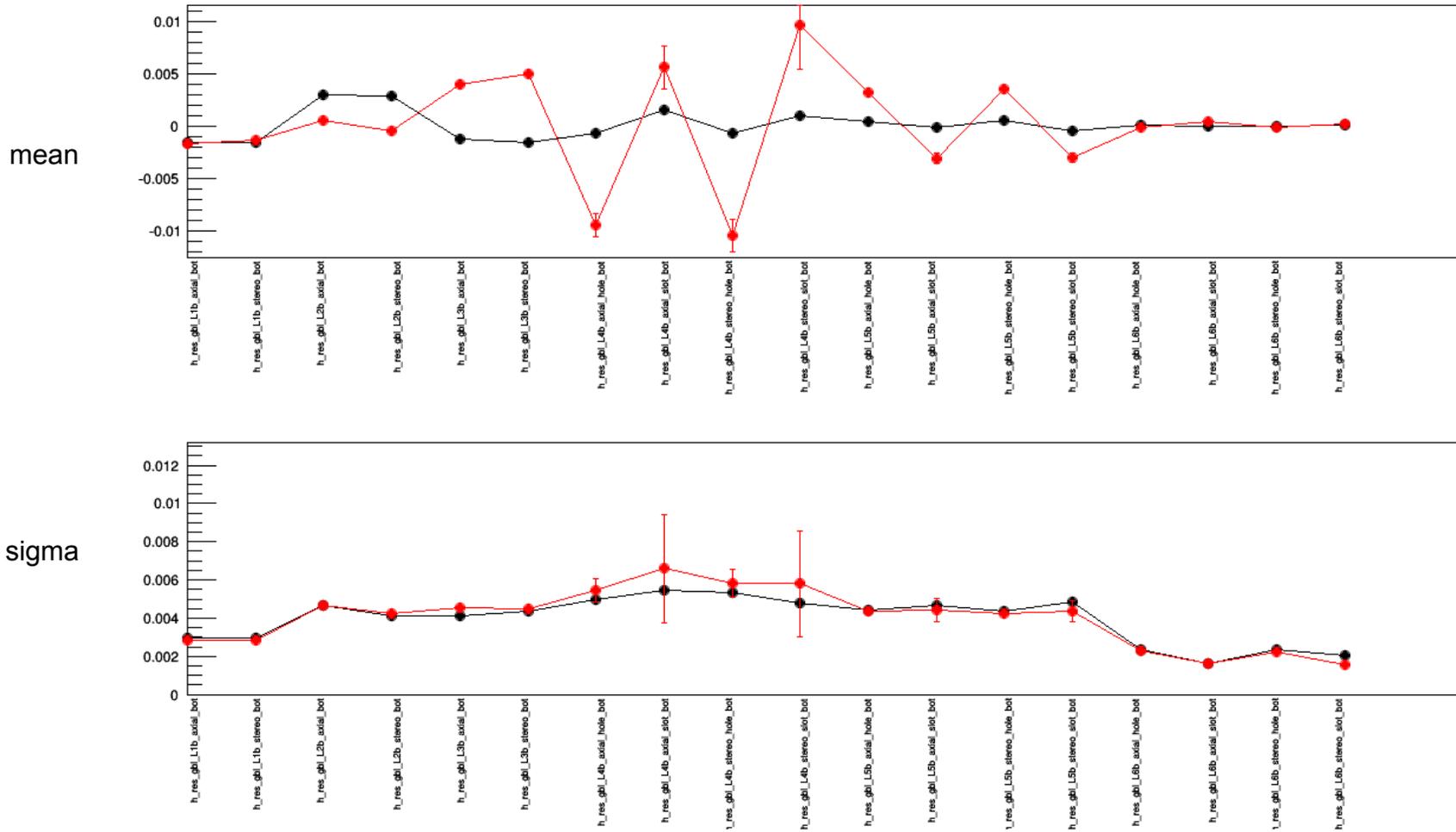


# GBL Residuals Bottom

X-axis:  $\pm 0.01$   
5772

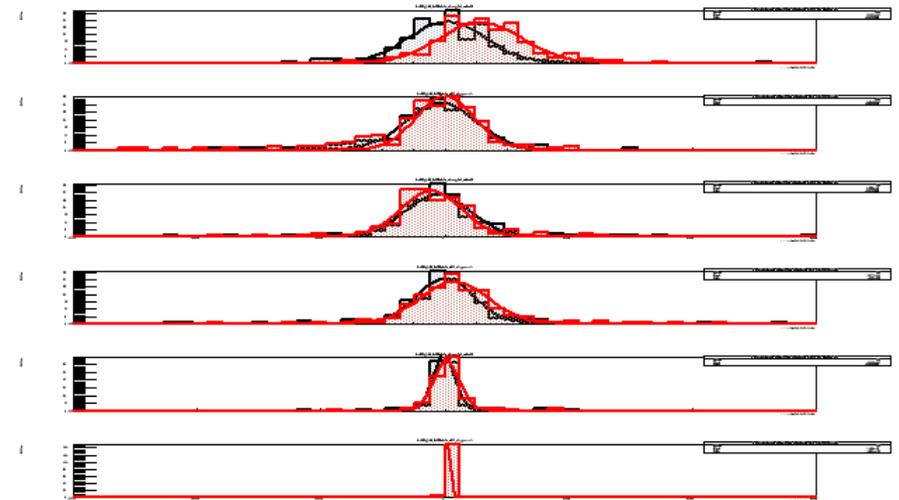
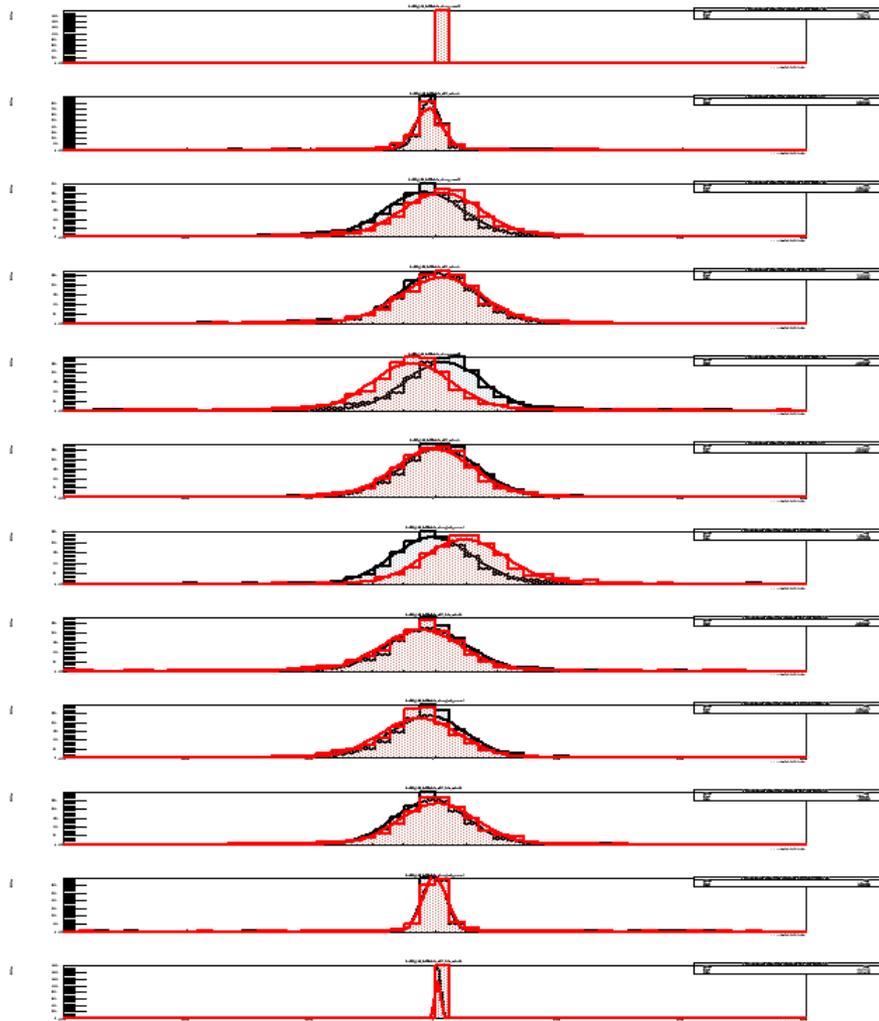


# GBL Residuals Bottom

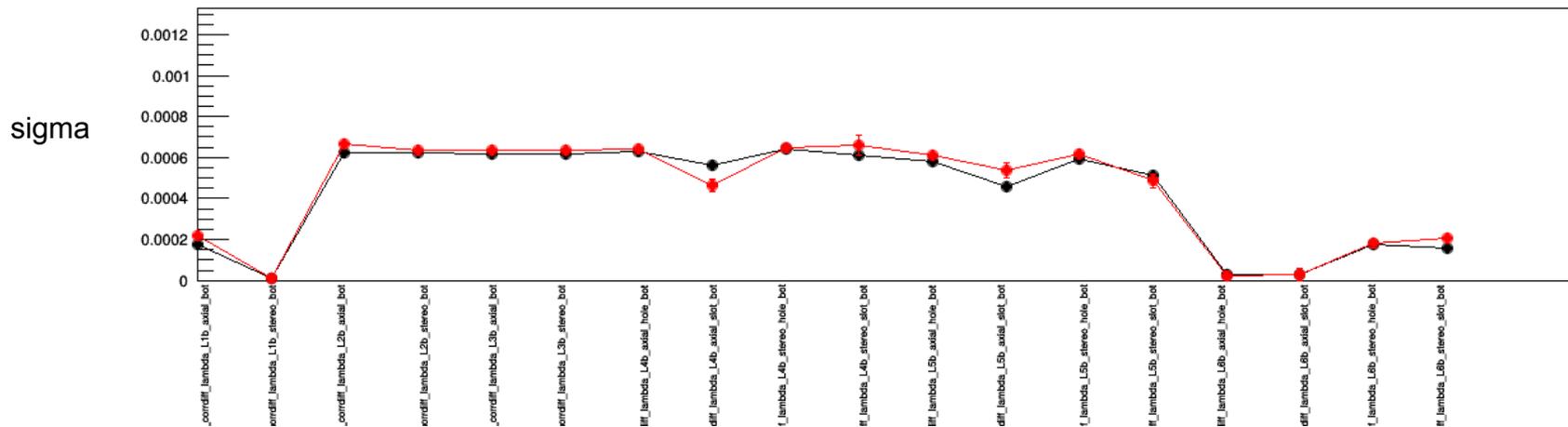
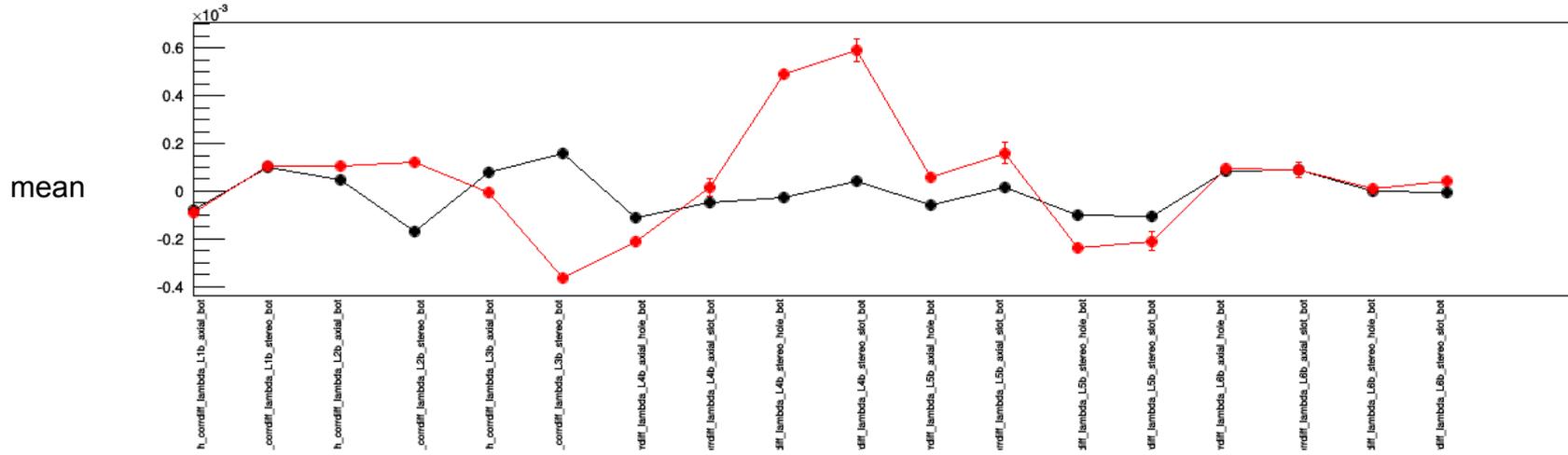


# GBL Kinks Lambda Bottom

X-axis:  $\pm 0.006$   
5772

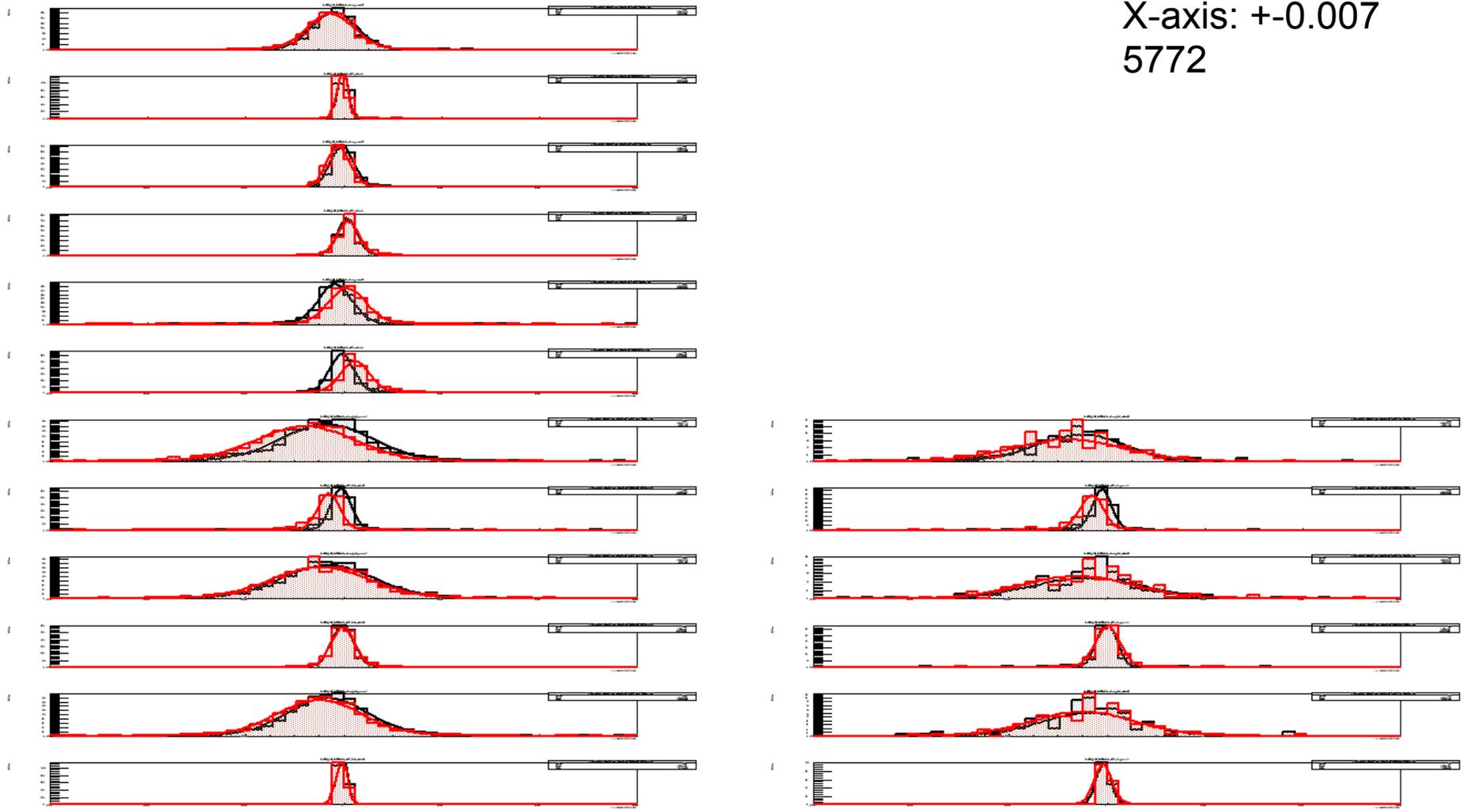


# GBL Kinks Lambda Bottom

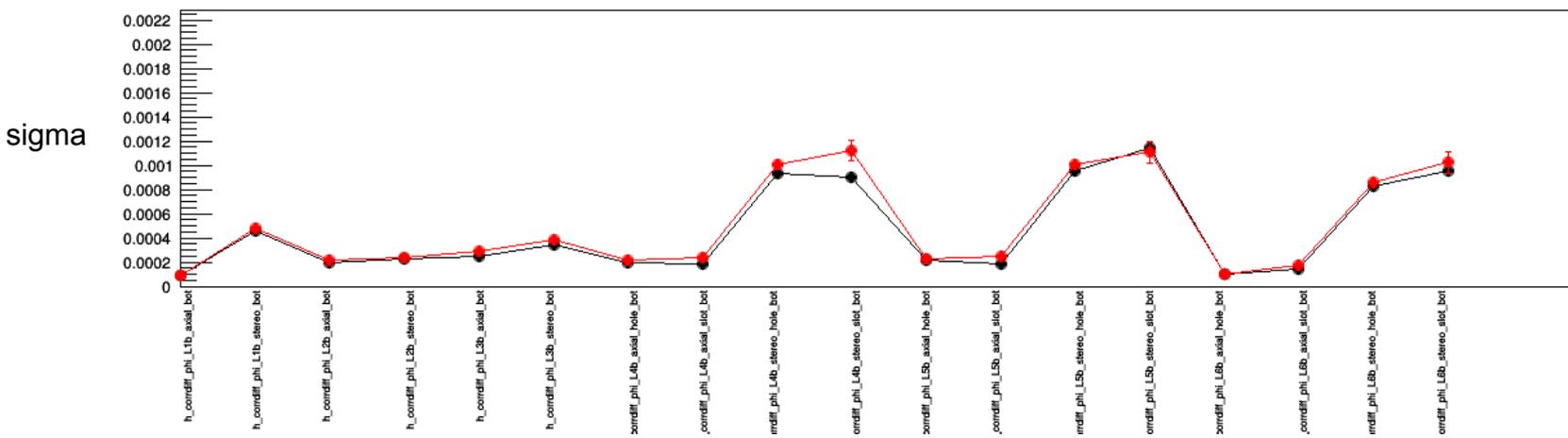
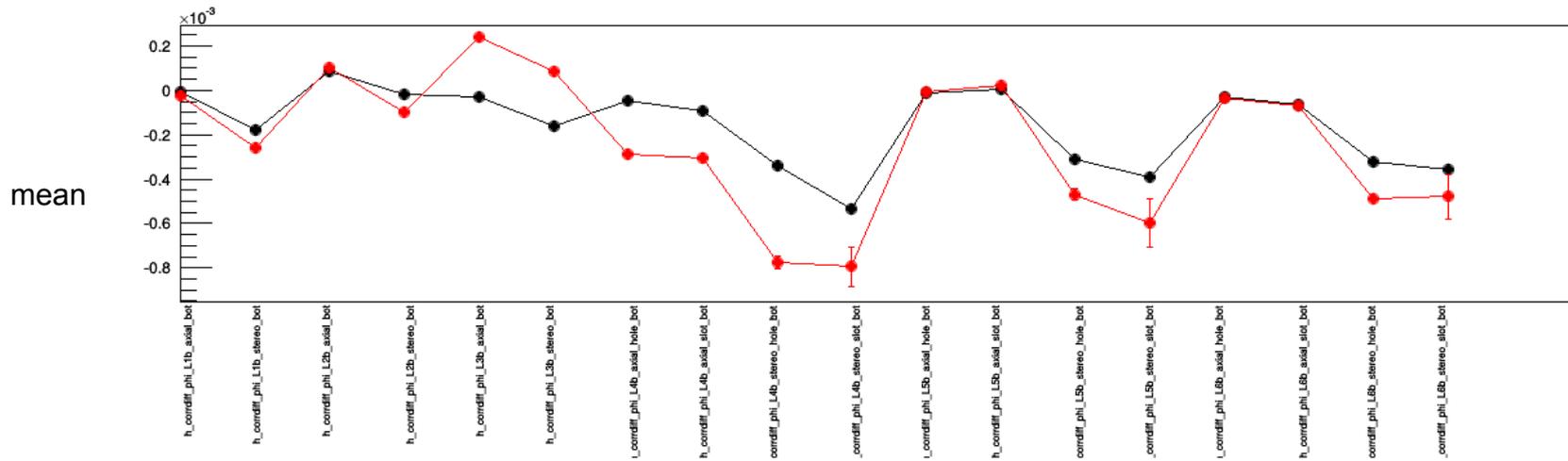


# GBL Kinks Phi Bottom

X-axis:  $\pm 0.007$   
5772

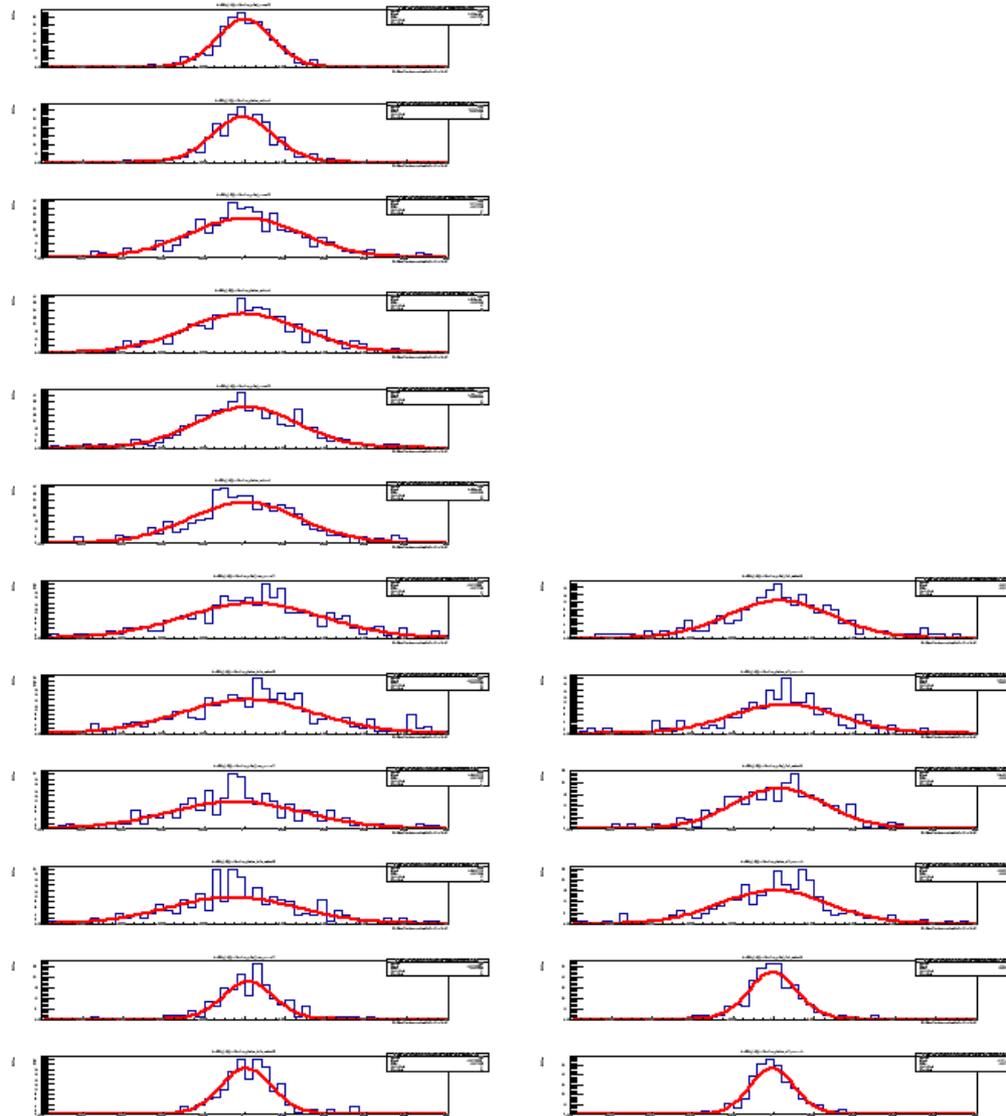


# GBL Kinks Phi Bottom



# GBL Residuals Top - Simulation

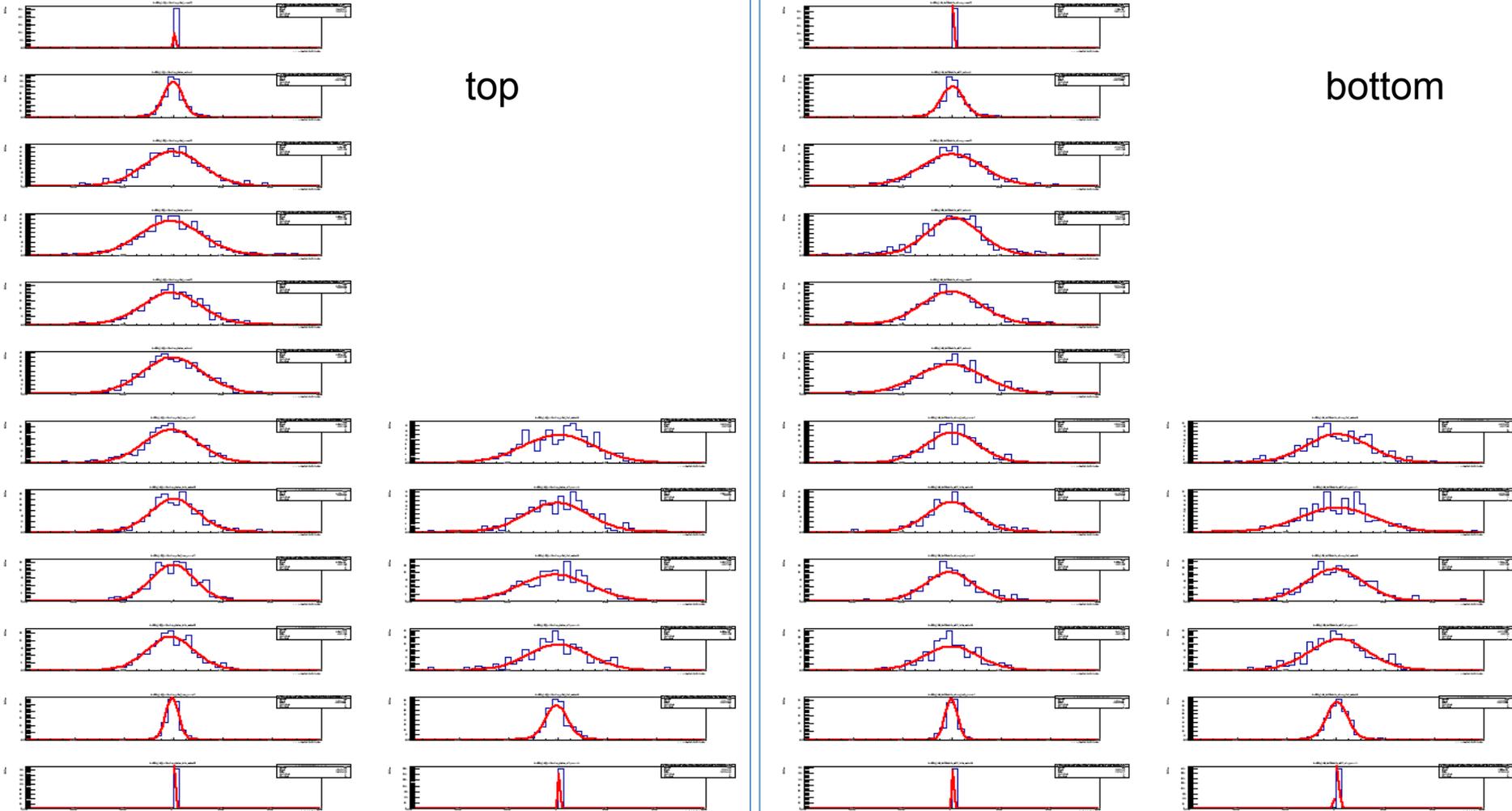
X-axis:  $\pm 0.01$



# GBL Kinks Lambda

top

bottom

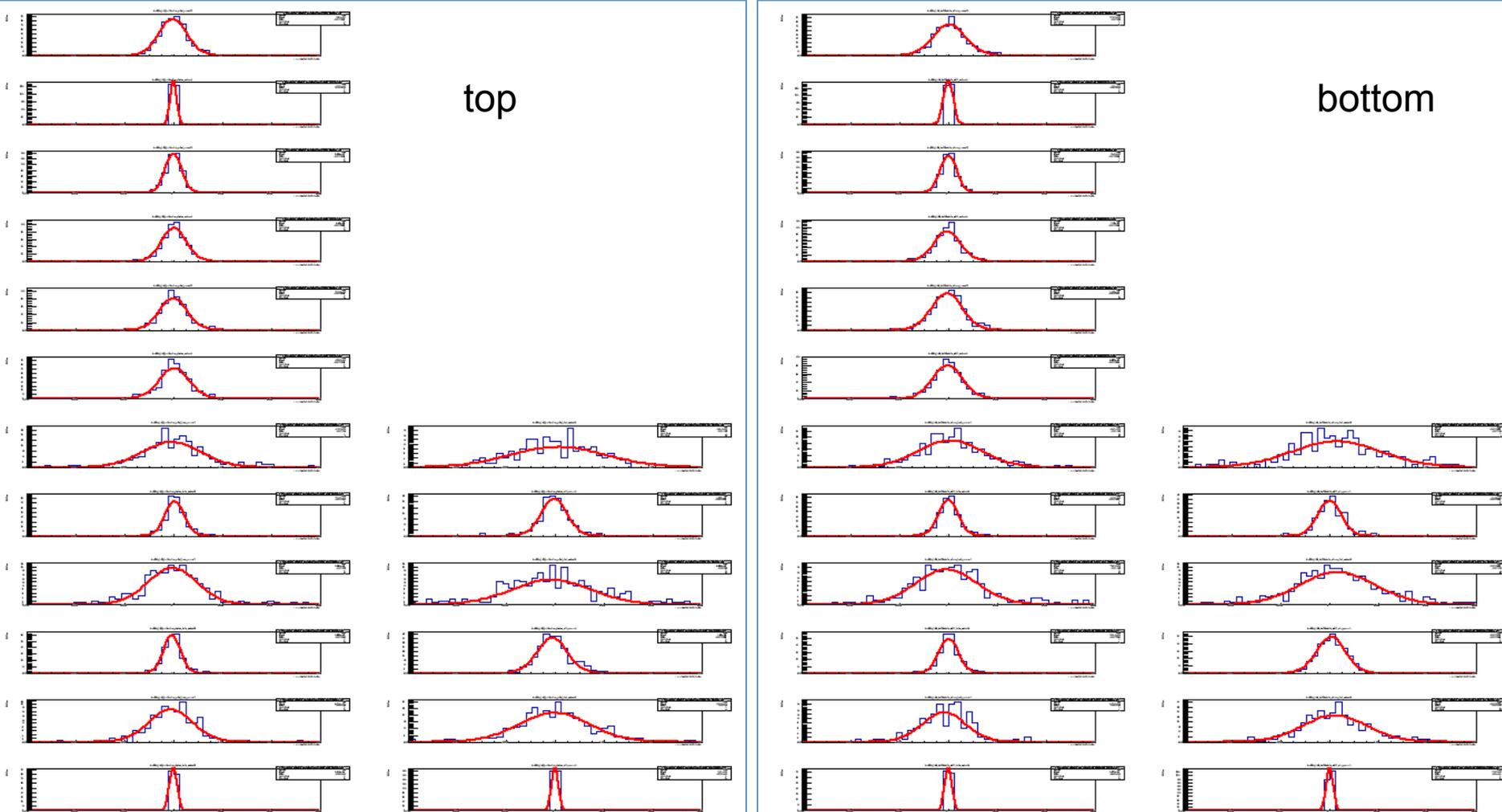


Lambda (almost measurement dir.) consistent b/w top and bottom  
 Width  $\sim 1.2\text{mrad}$  consistent with multiple scat. Formula for  $320\mu\text{m Si @ } 500\text{MeV}$

# GBL Kinks Phi

top

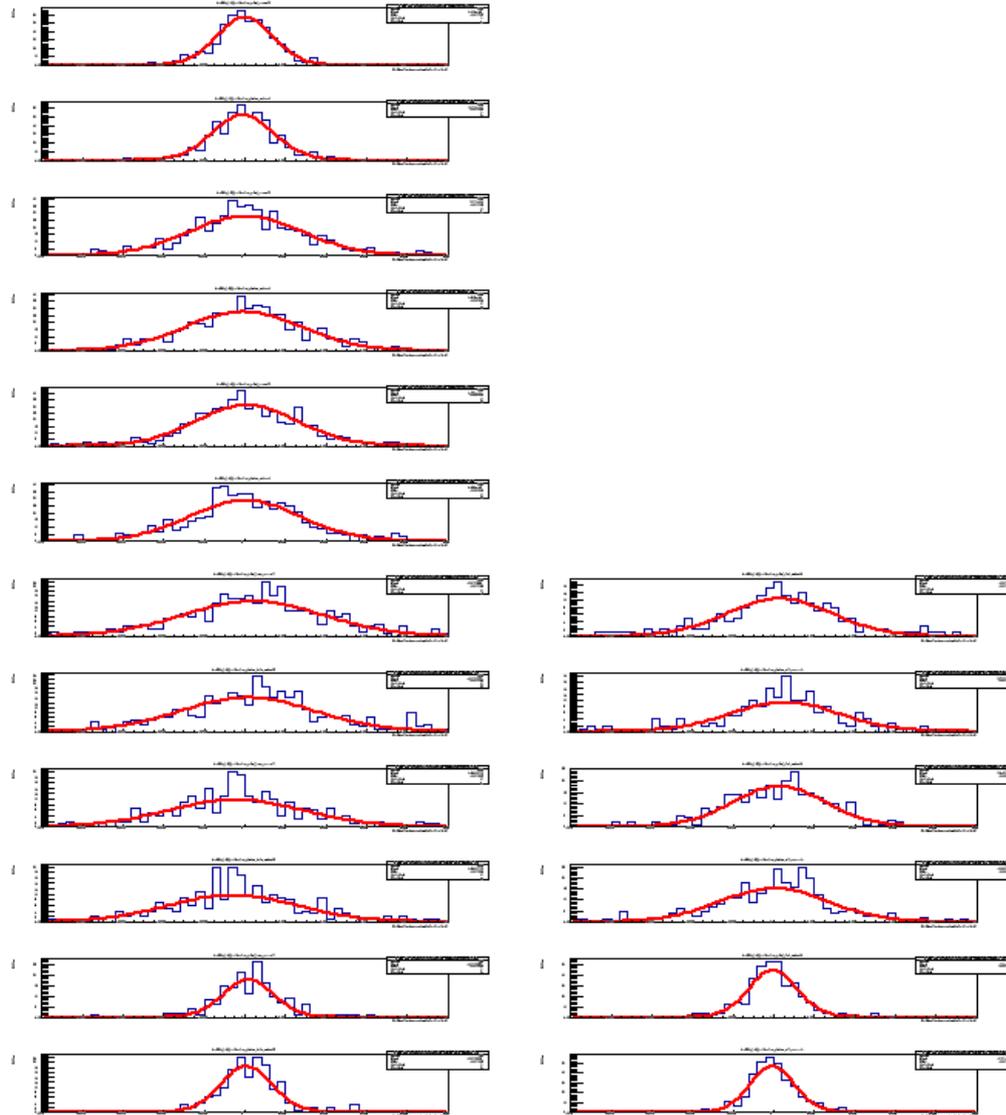
bottom



Phi (approx. along strips) consistent b/w top and bottom.  
 Note large/small width variation: no constraint from axial sensors.

# GBL Residuals Top - Simulation

Top:  
A  
S  
hole slot

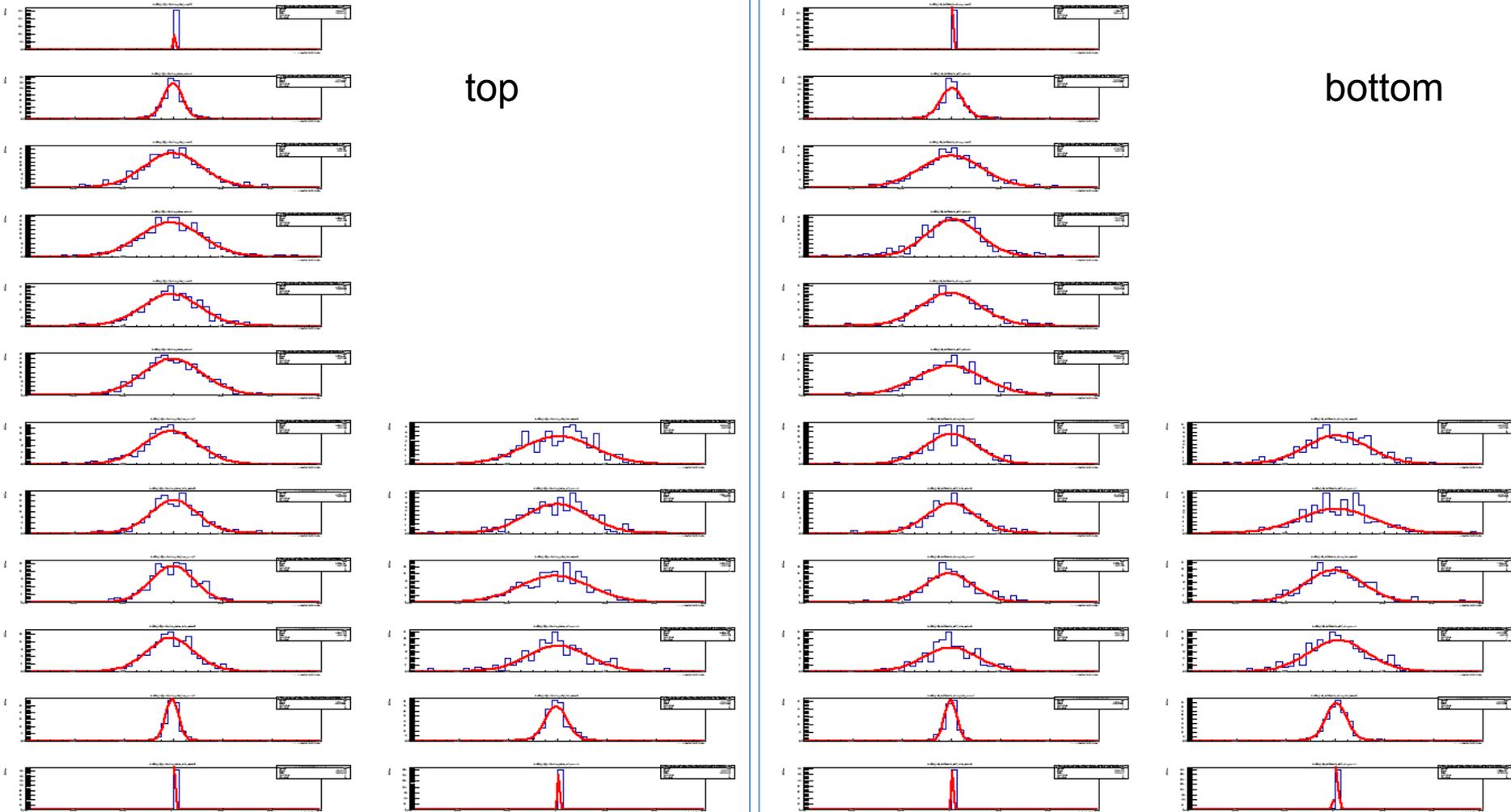


X-axis: +/-0.01

# GBL Kinks Lambda - simulation

top

bottom



Lambda (almost measurement dir.) consistent b/w top and bottom  
 Width  $\sim 1.2$  mrad consistent with multiple scat. Formula for 320um Si @ 500MeV

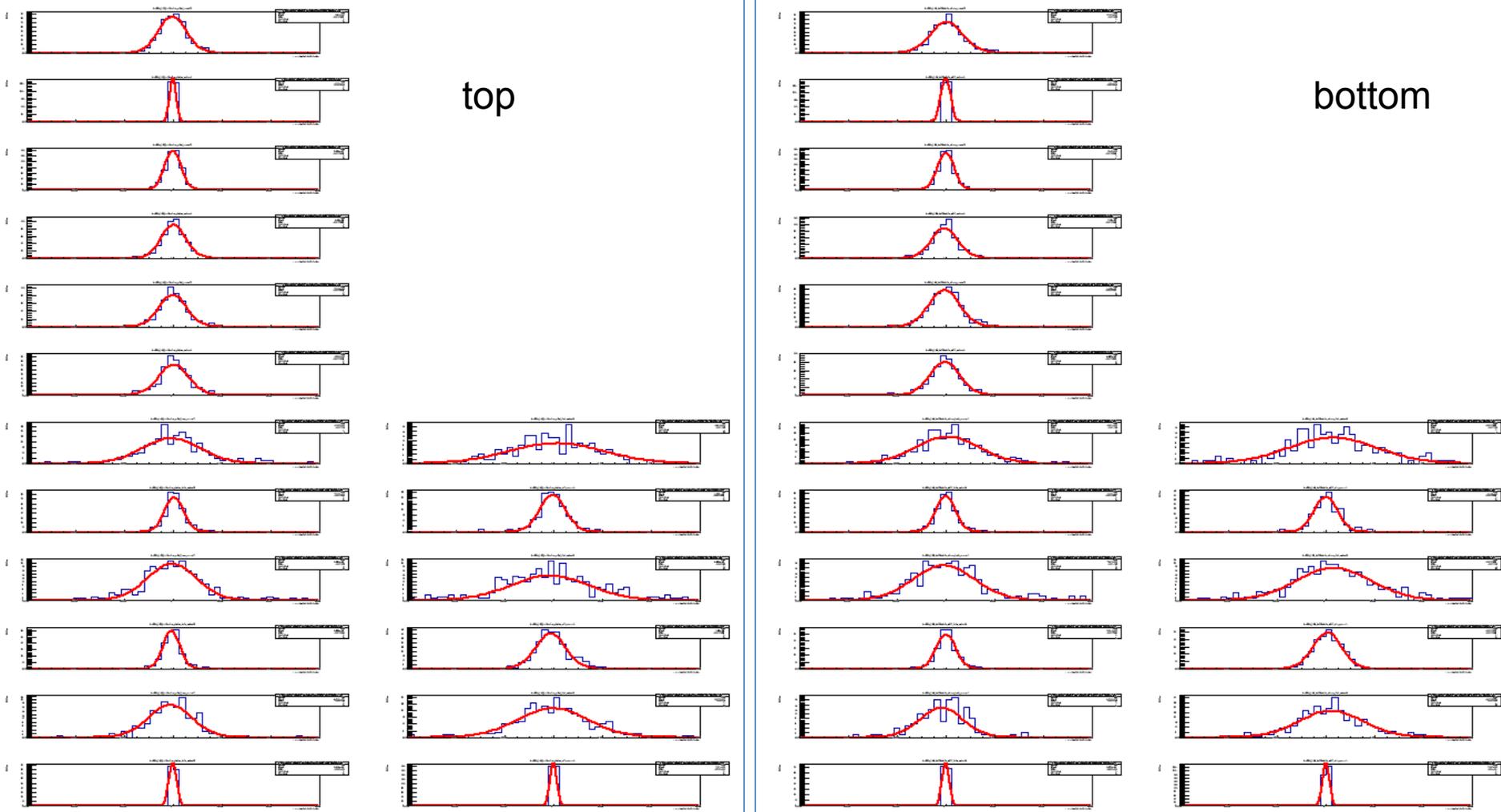
X-axis:  $\pm 0.007$

# GBL Kinks Phi - simulation

SLAC

top

bottom



Phi (approx. along strips) consistent b/w top and bottom.  
Note large/small width variation: no constraint from axial sensors.