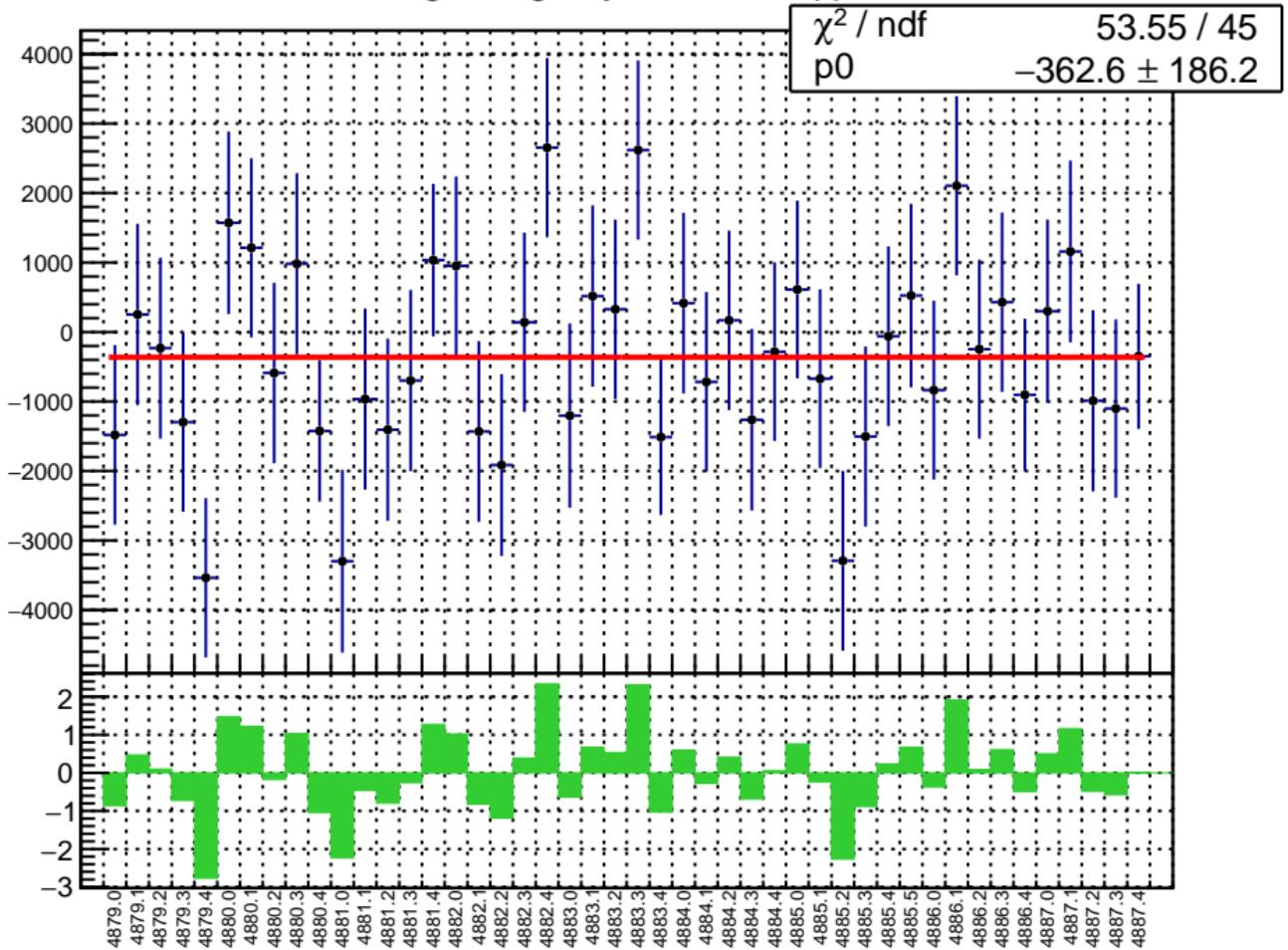
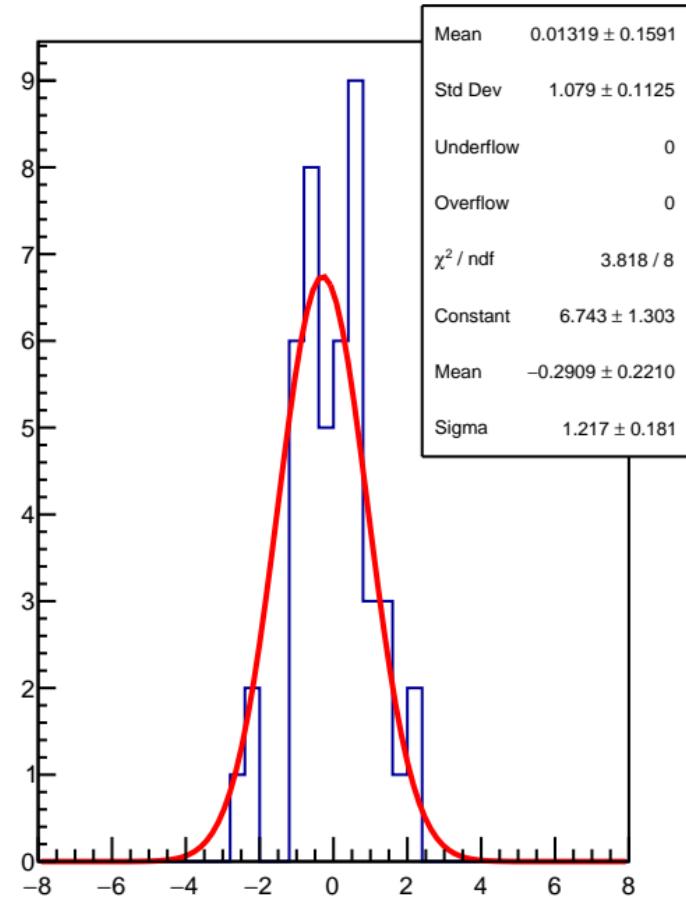


# slug89: reg\_asym\_usl.mean/ppb

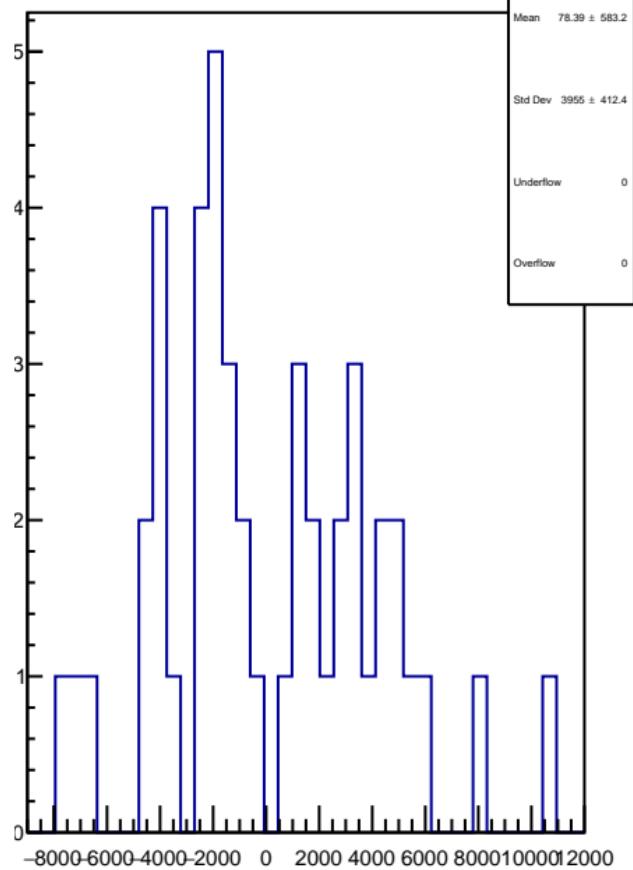
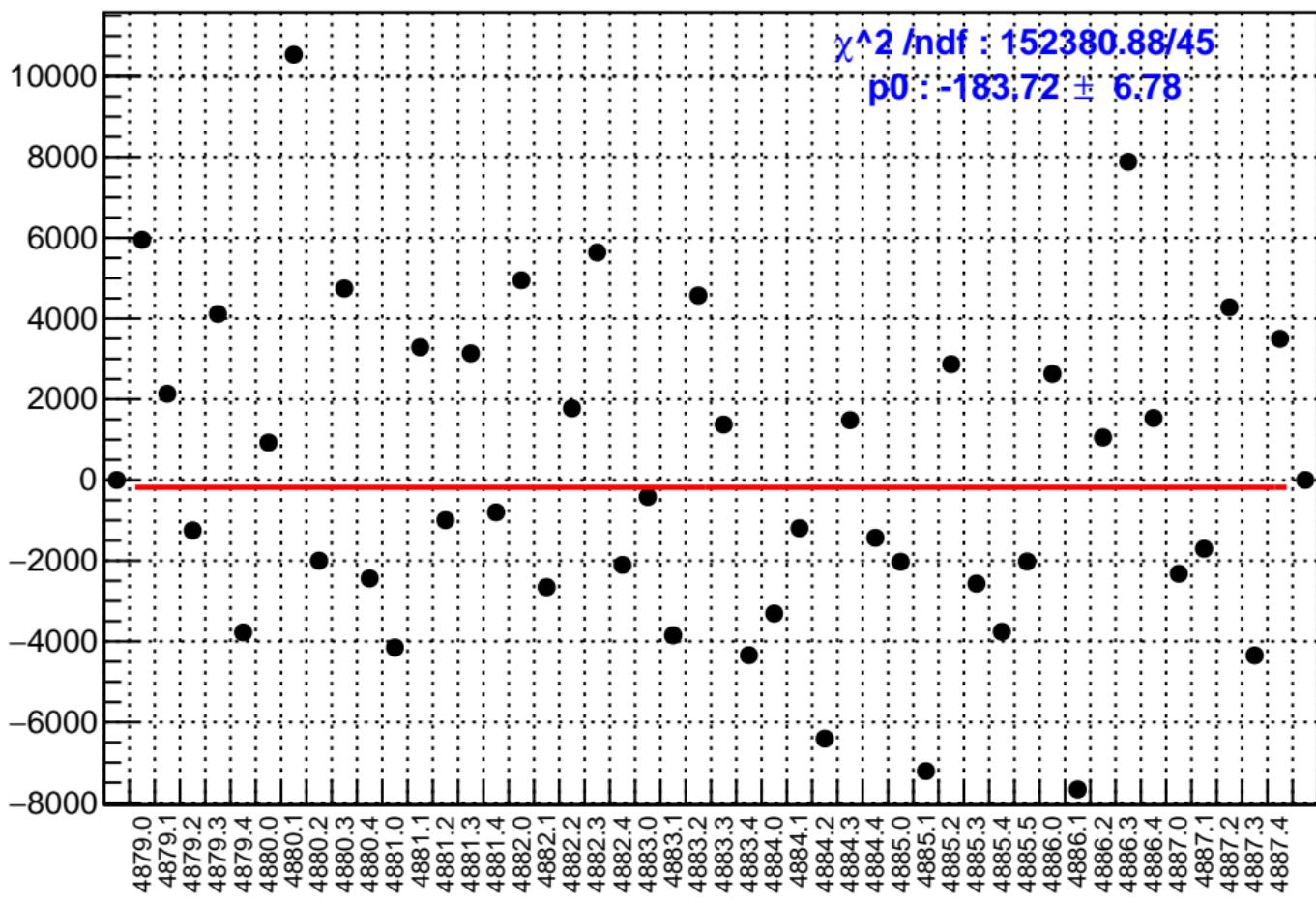


# 1D pull distribution

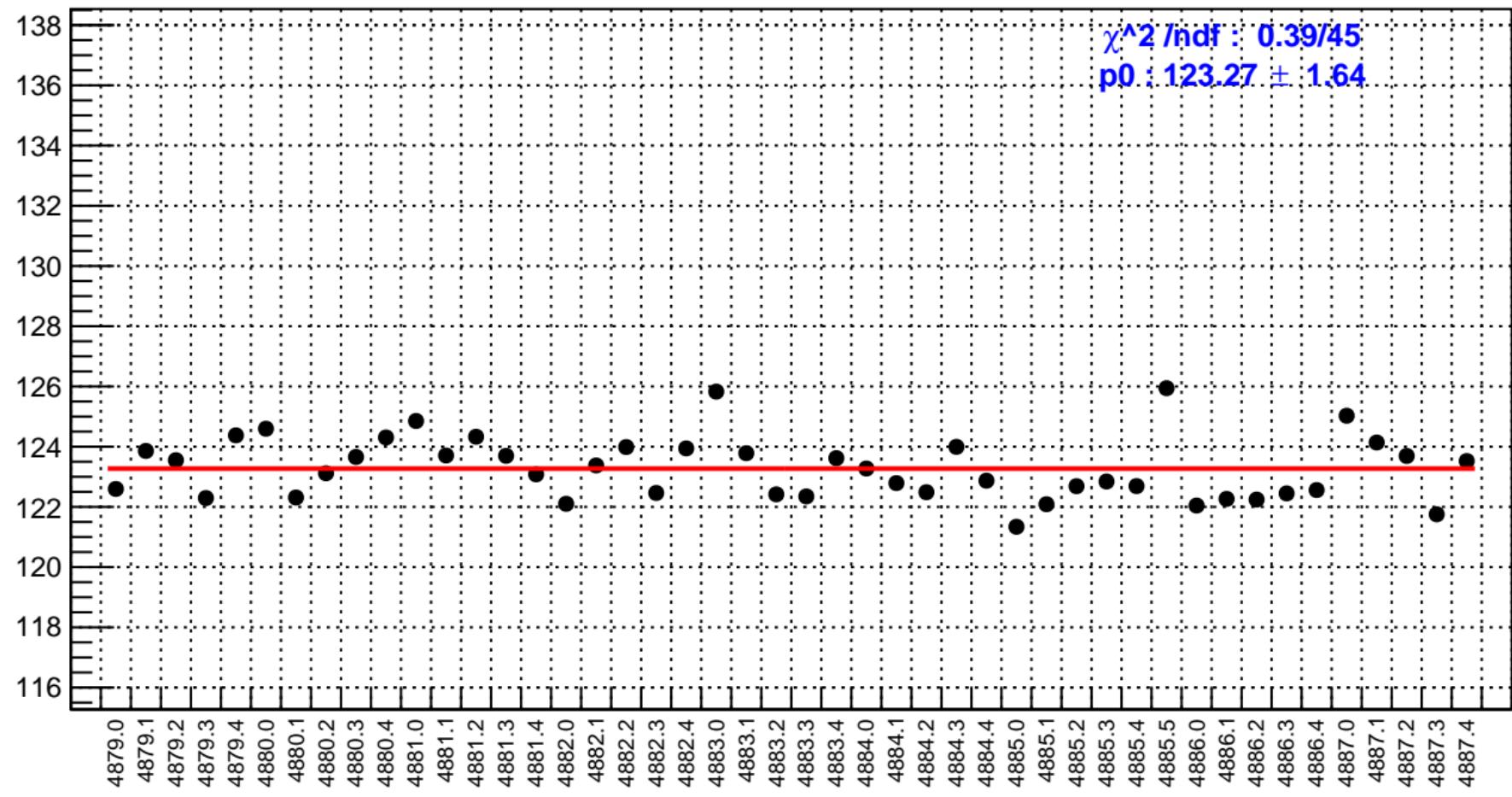


slug89: asym\_usl.mean/ppb-reg\_asym\_usl.mean/ppb

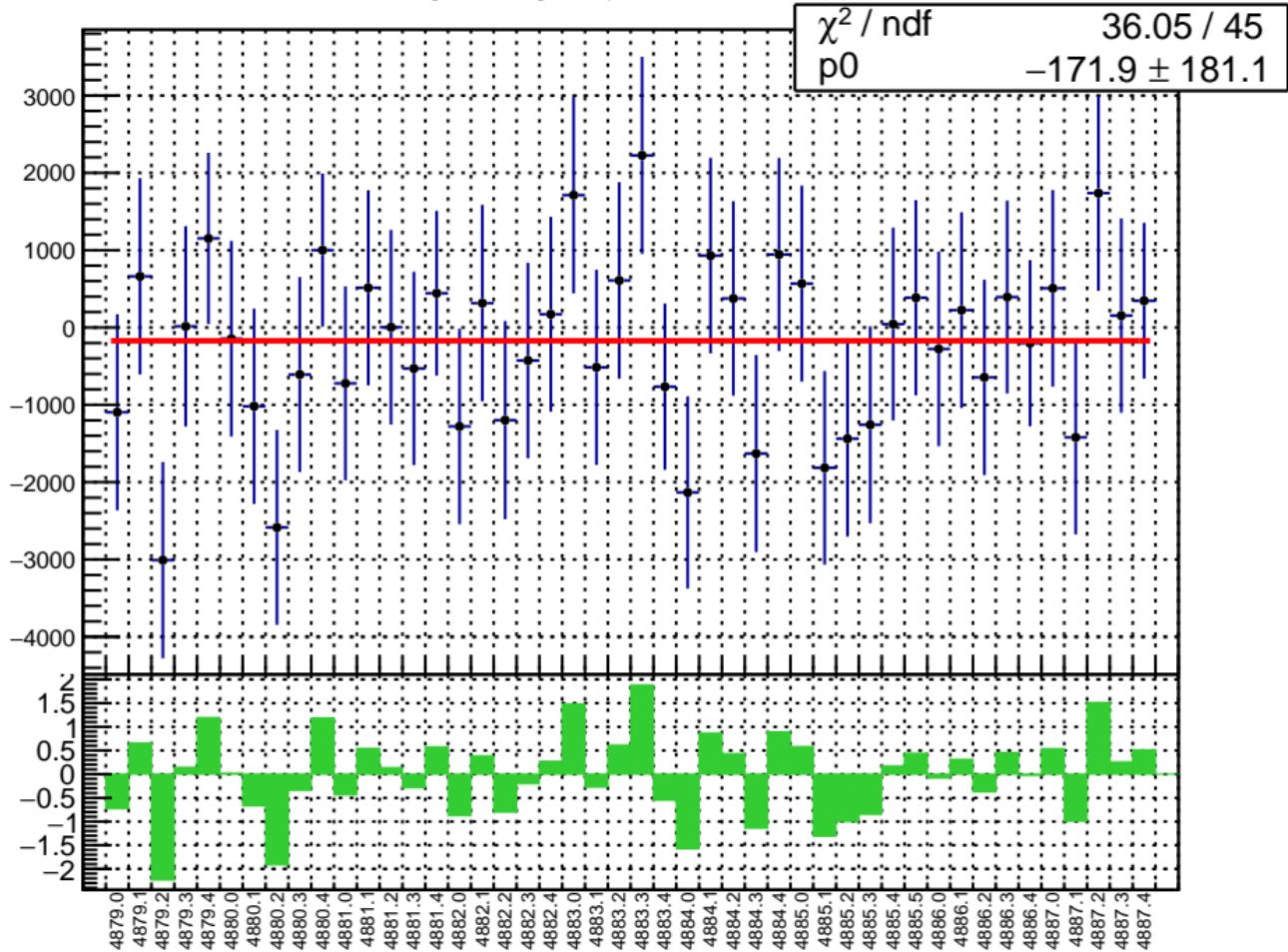
slug89: 1D Corr asym\_usl.mean/ppb-reg\_asym\_usl.mean/ppb



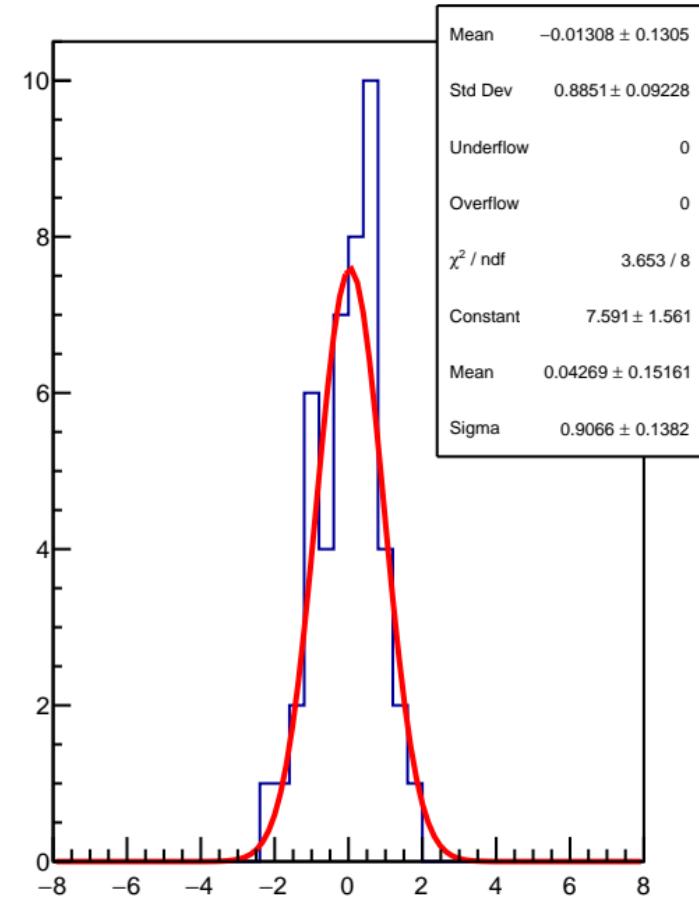
# slug89: reg\_asym\_usl.rms/ppm



## slug89: reg\_asym\_usr.mean/ppb

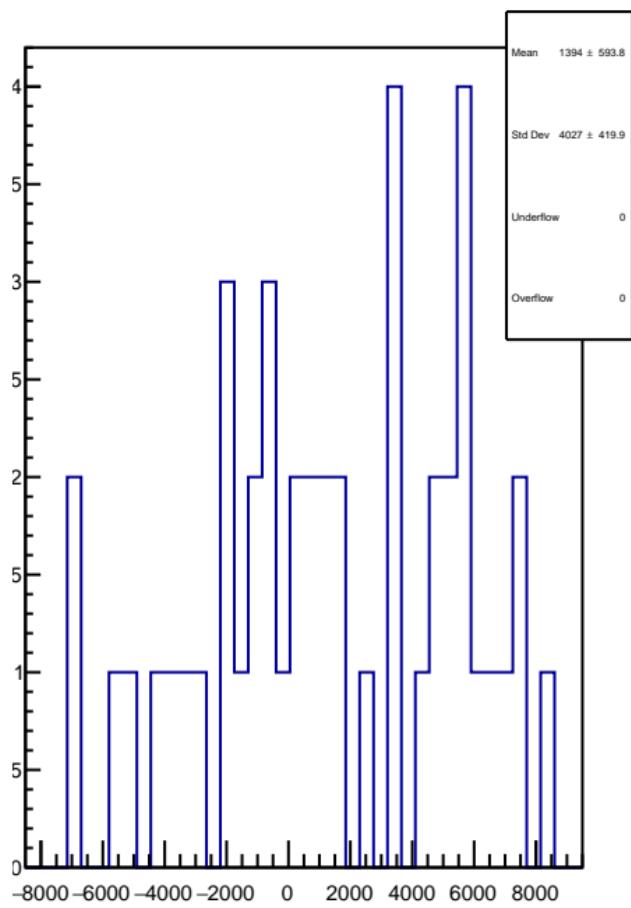
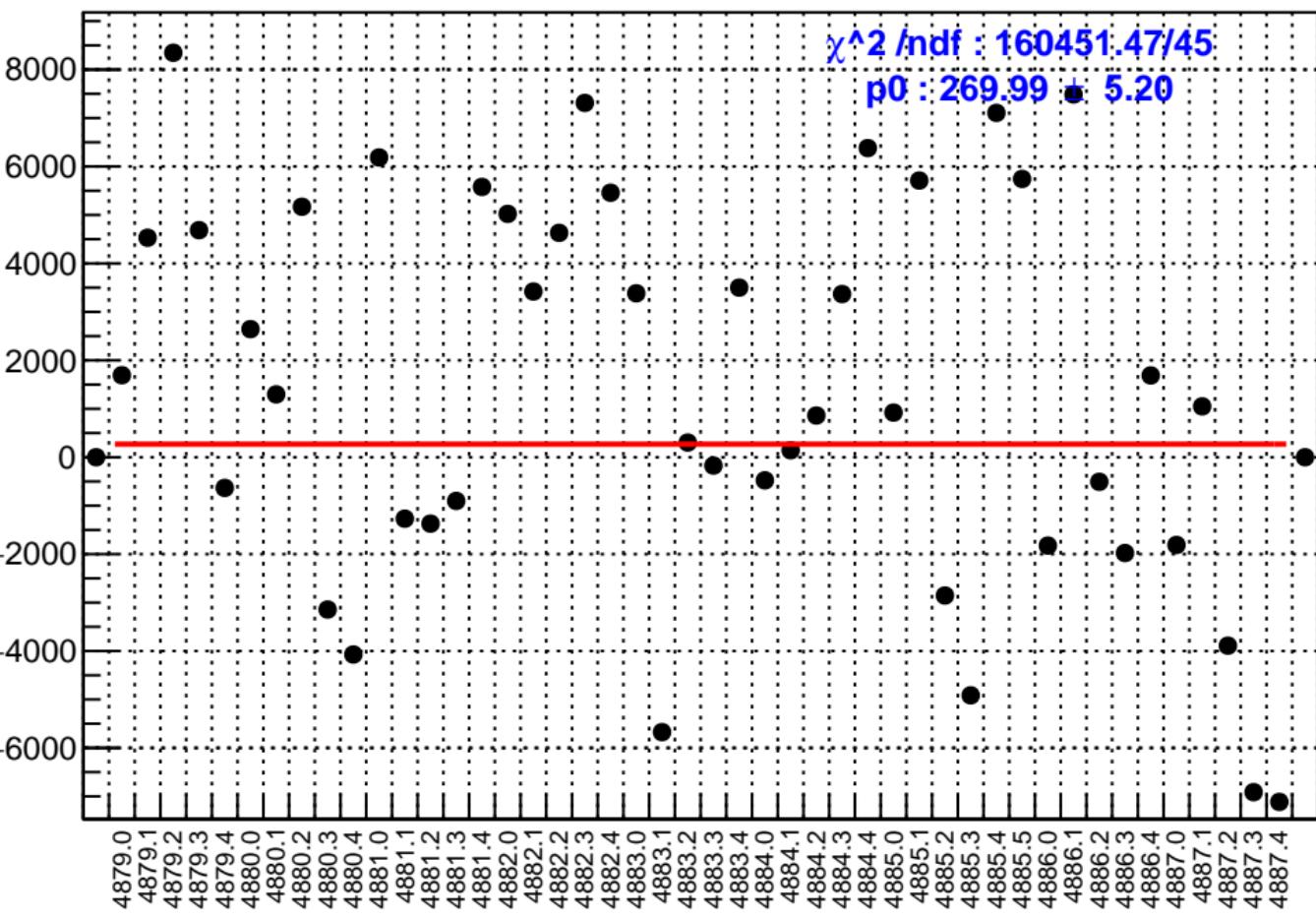


## 1D pull distribution

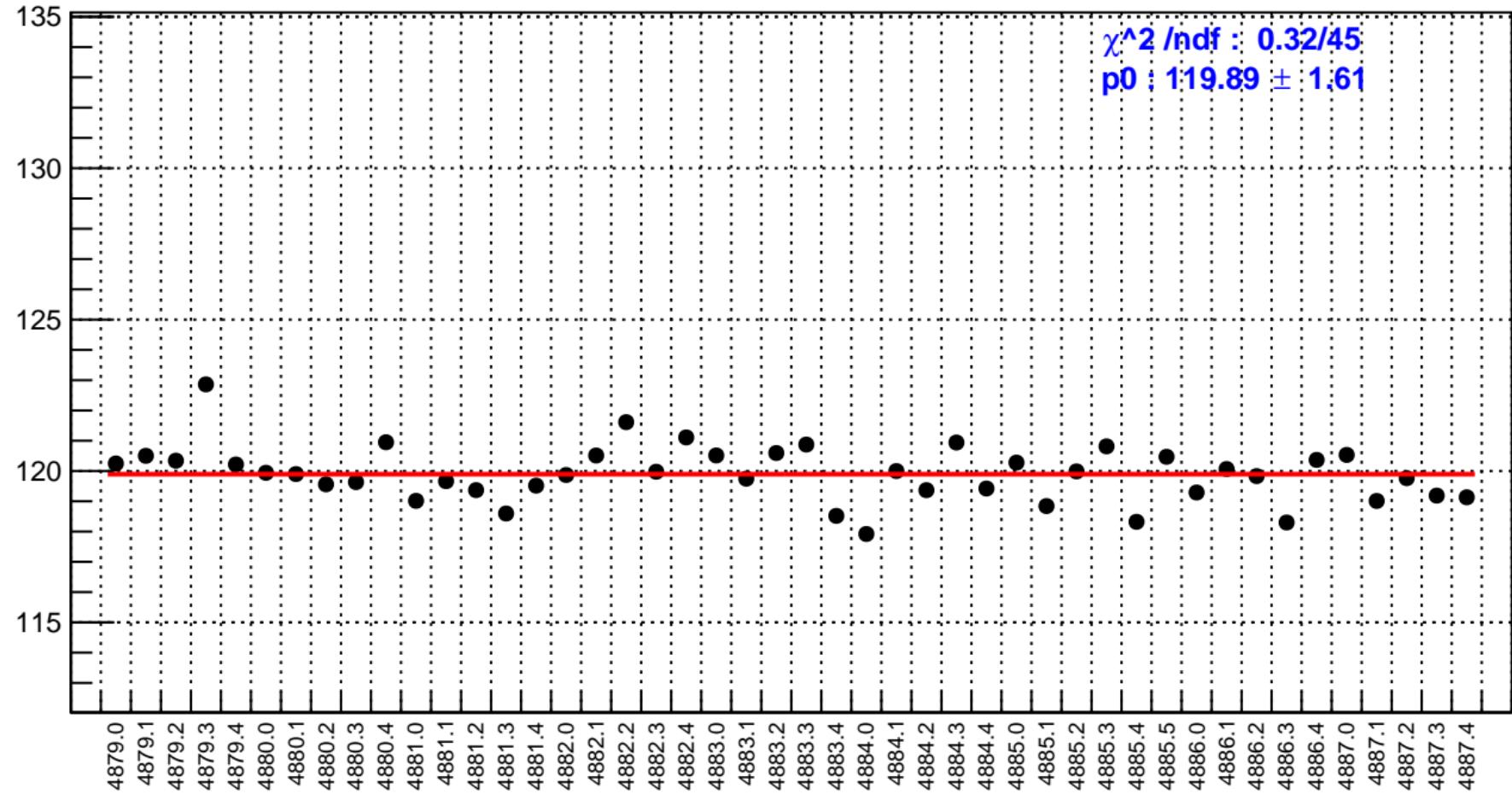


slug89: asym\_usr.mean/ppb-reg\_asym\_usr.mean/ppb

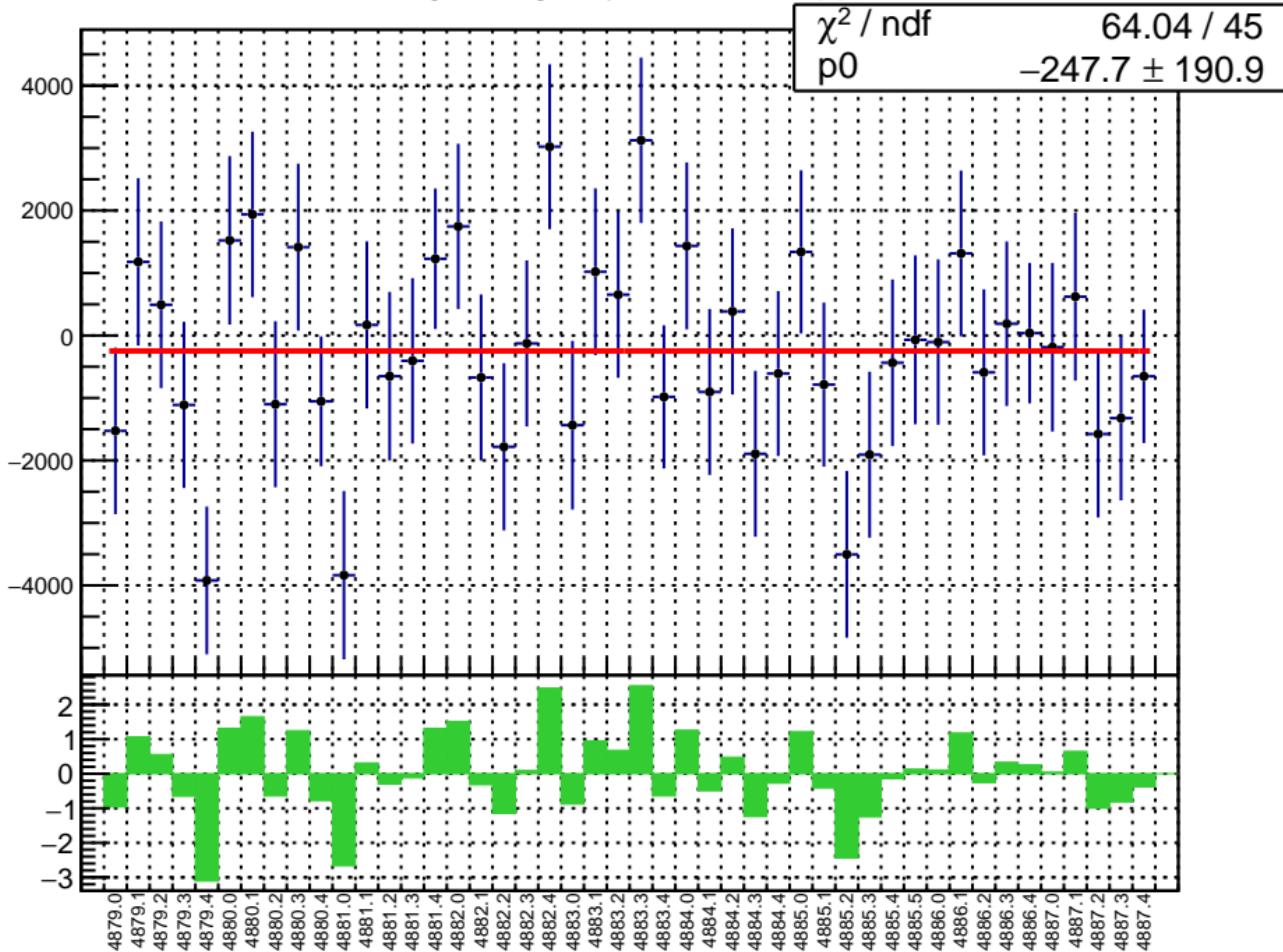
slug89: 1D Corr asym\_usr.mean/ppb-reg\_asym\_usr.mean/ppb



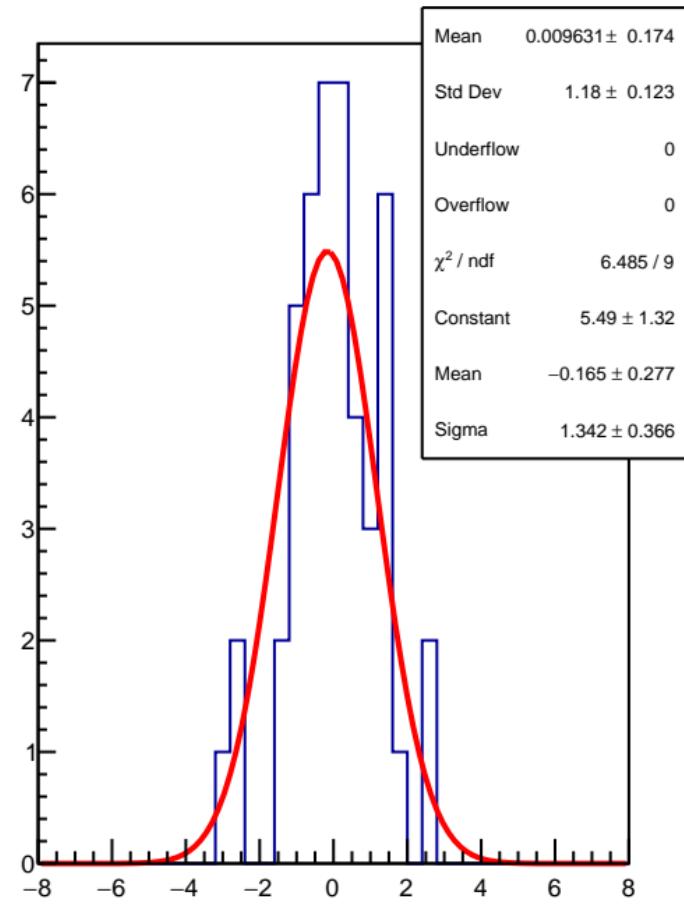
# slug89: reg\_asym\_usr.rms/ppm



# slug89: reg\_asym\_dsl.mean/ppb

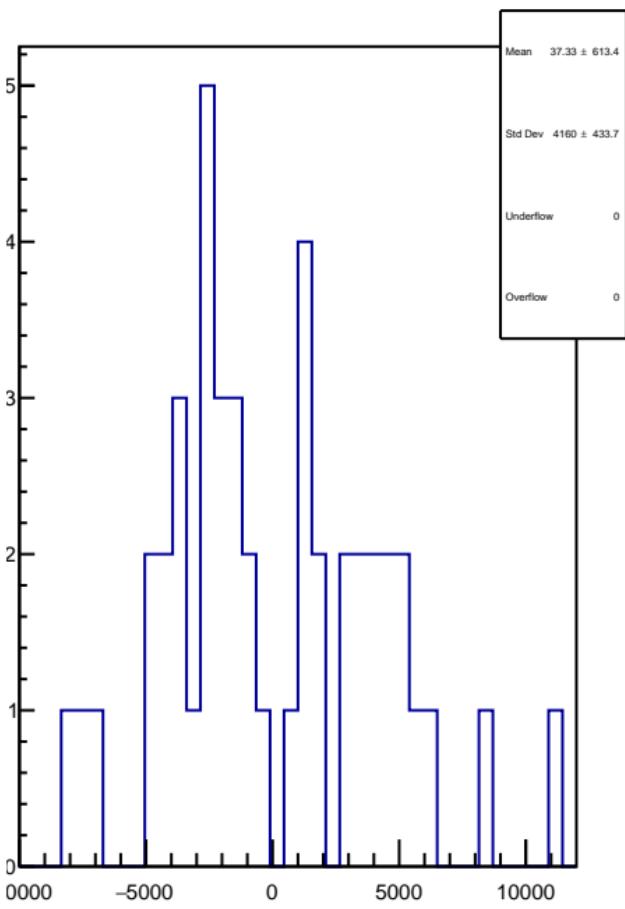
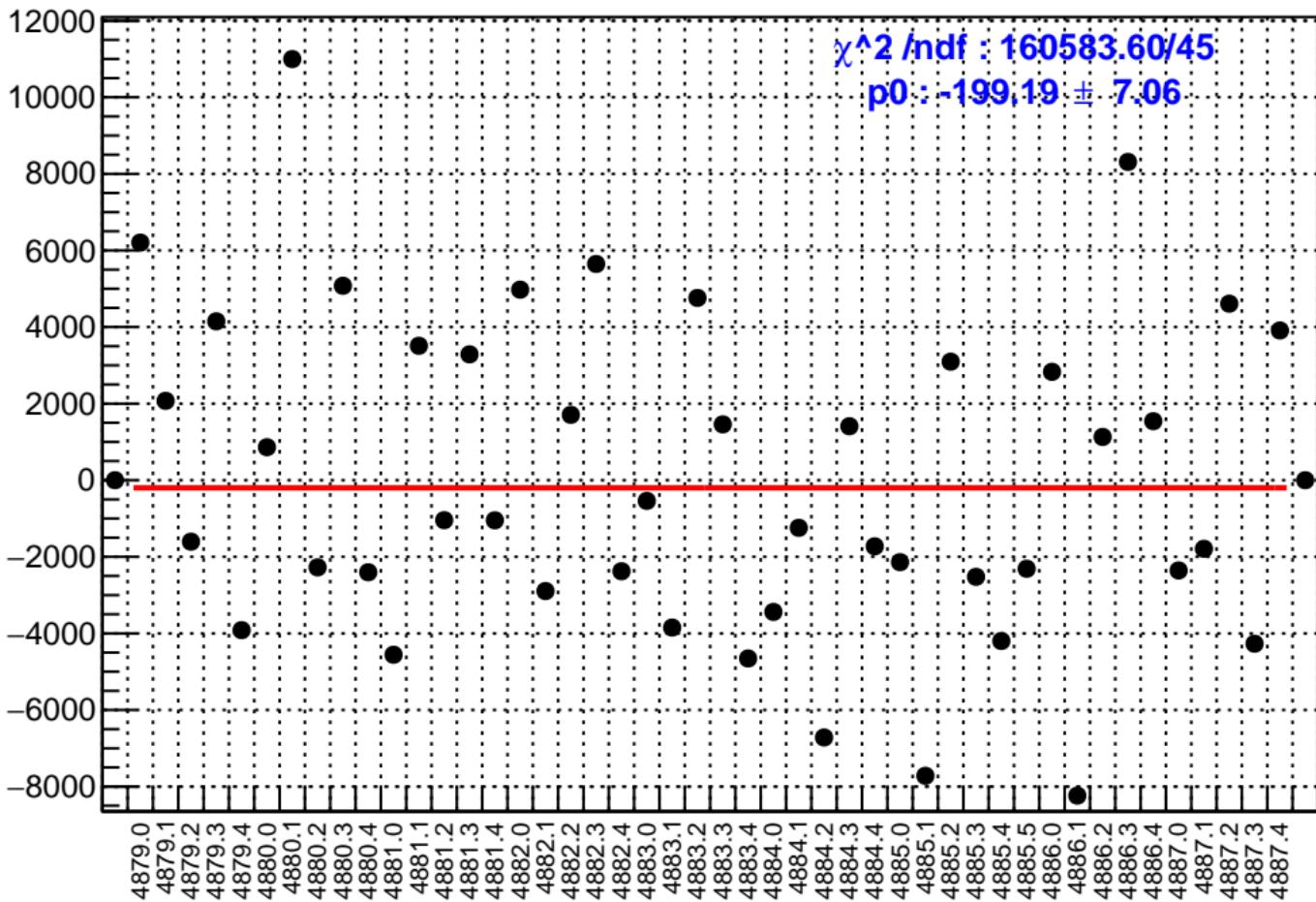


# 1D pull distribution

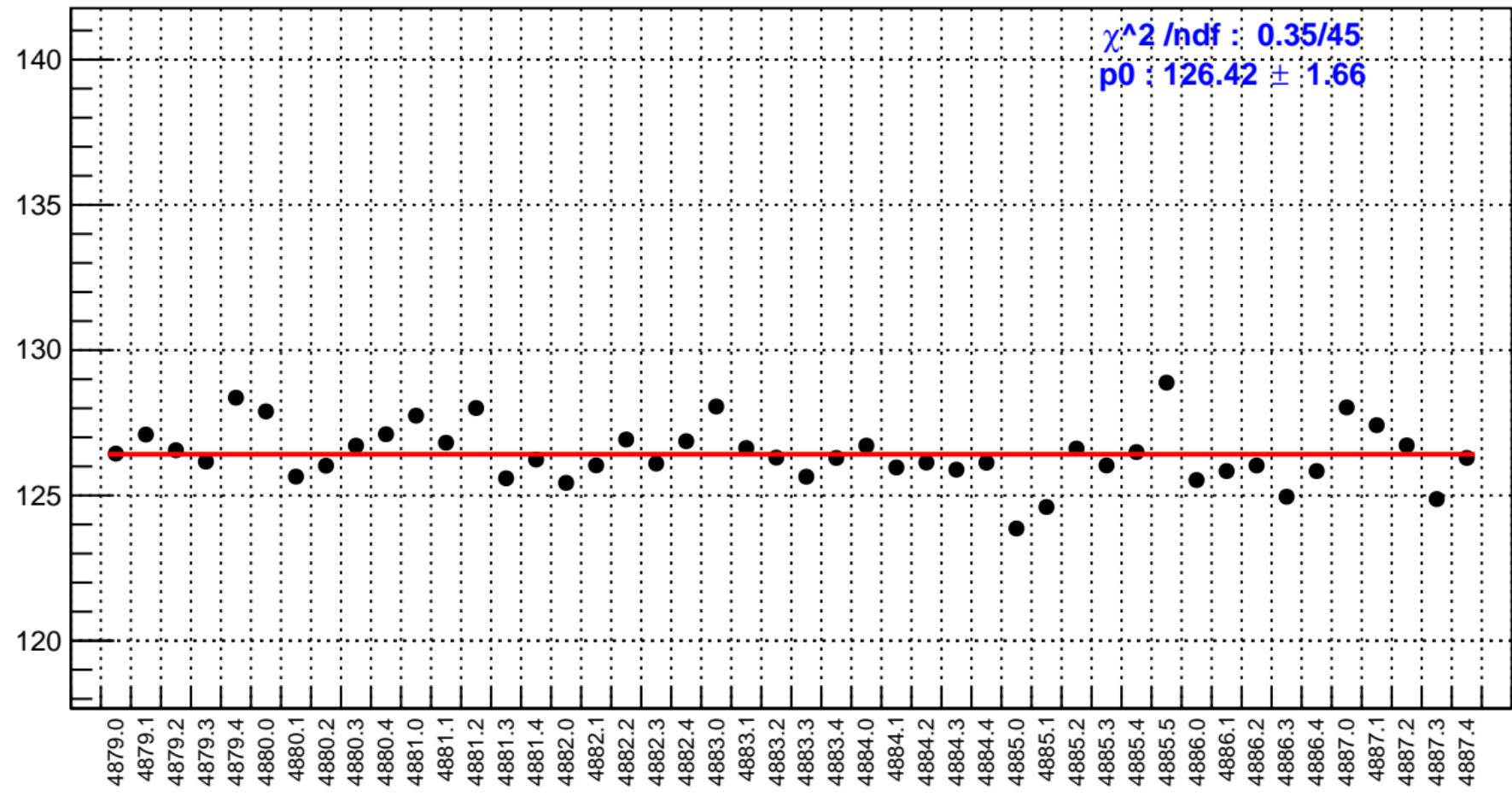


slug89: asym\_dsl.mean/ppb-reg\_asym\_dsl.mean/ppb

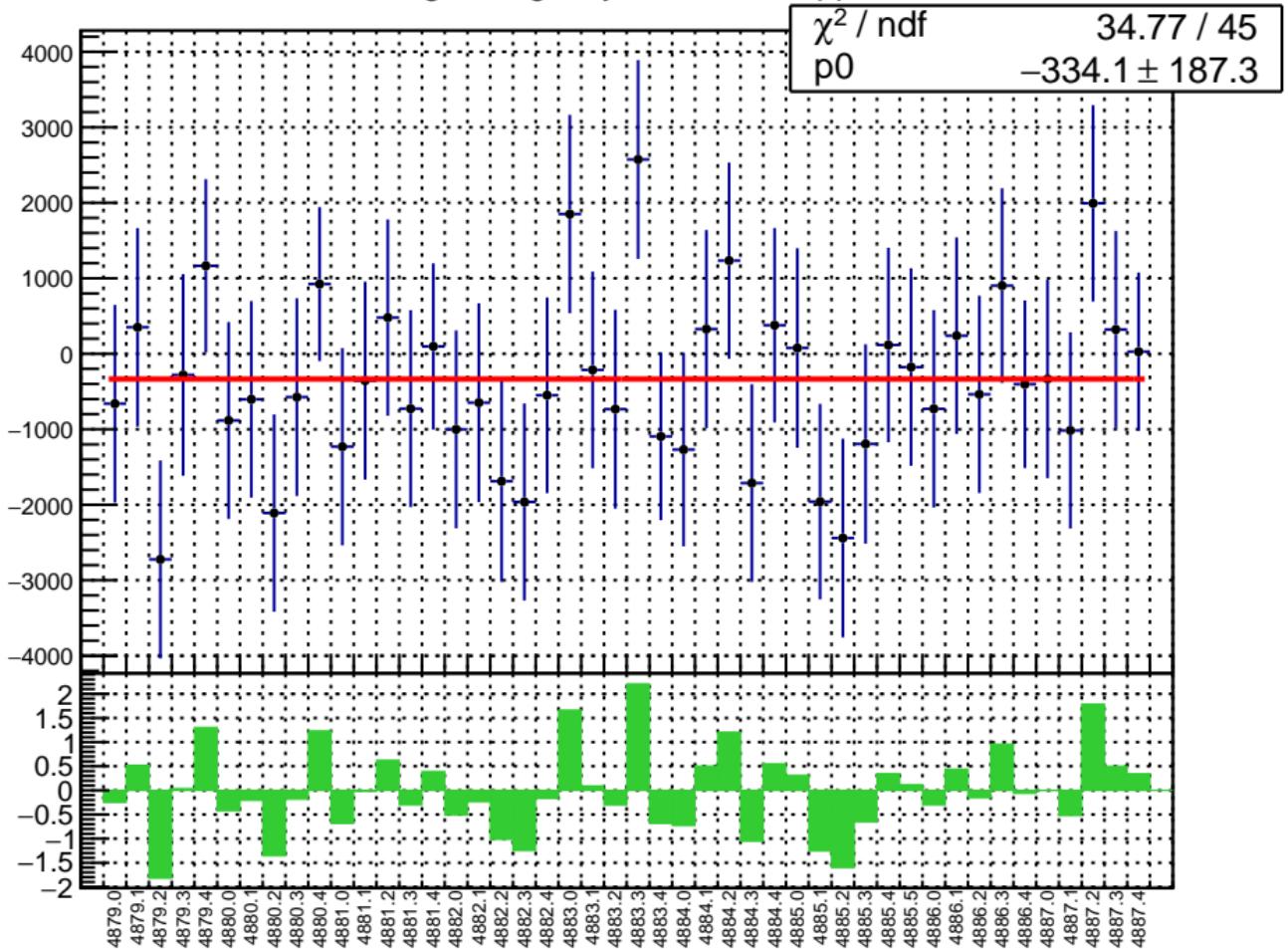
slug89: 1D Corr asym\_dsl.mean/ppb-reg\_asym\_dsl.mean/ppb



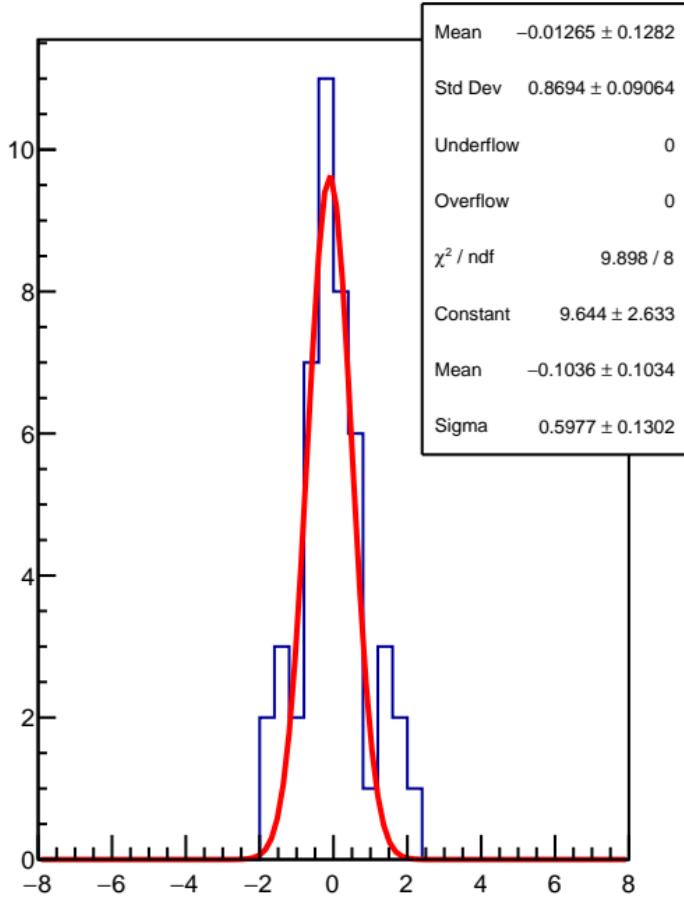
# slug89: reg\_asym\_dsl.rms/ppm



## slug89: reg\_asym\_dsr.mean/ppb

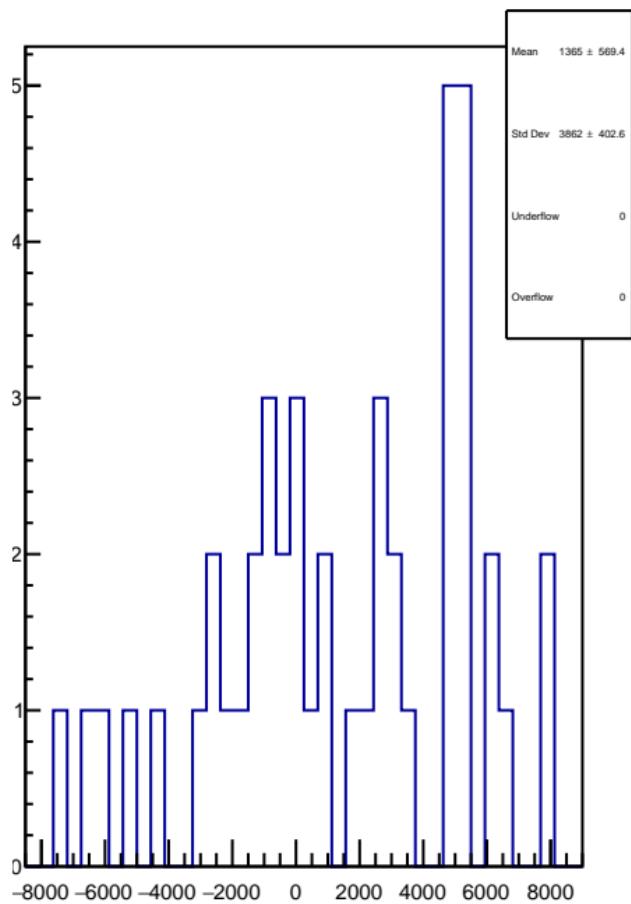
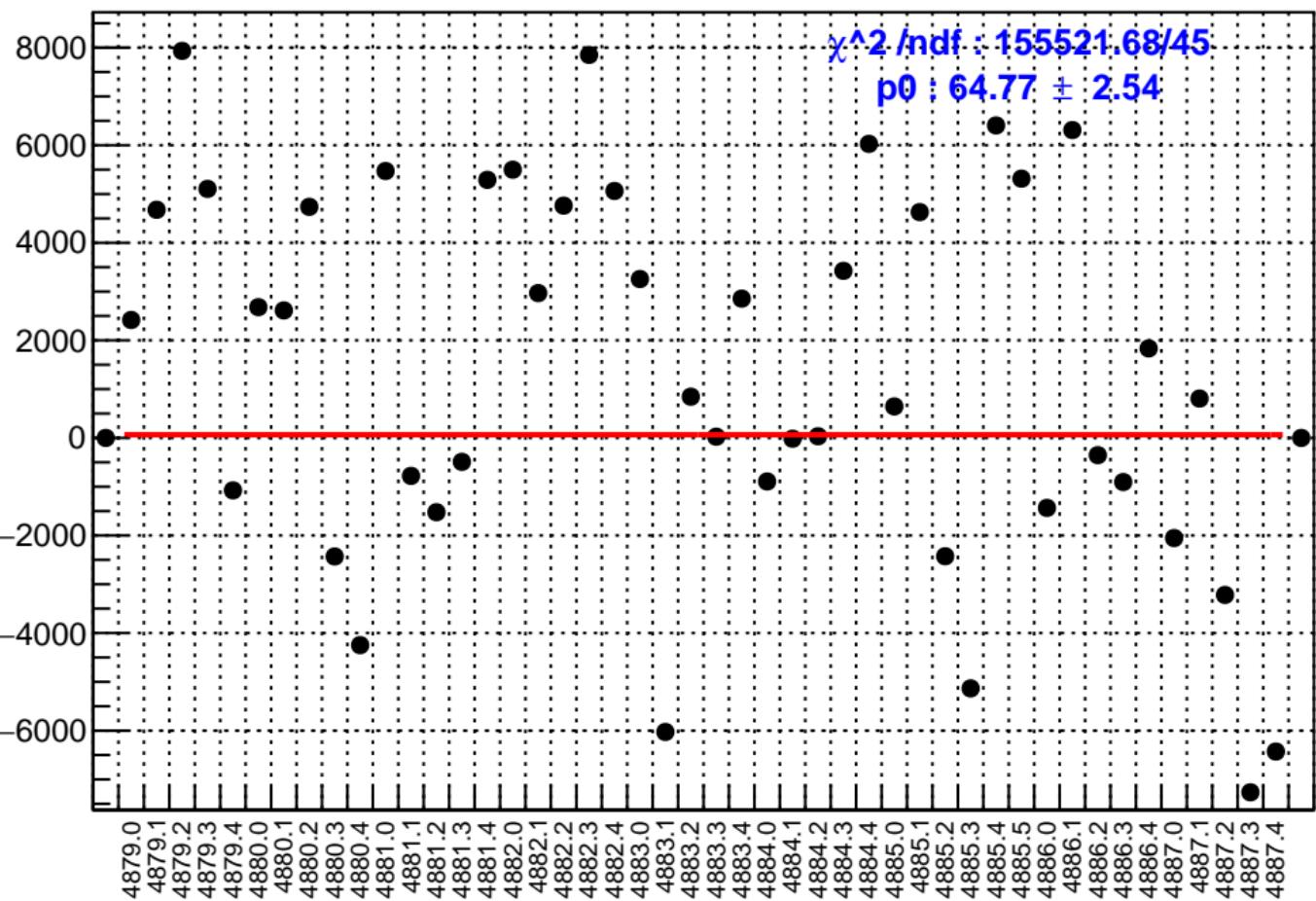


## 1D pull distribution

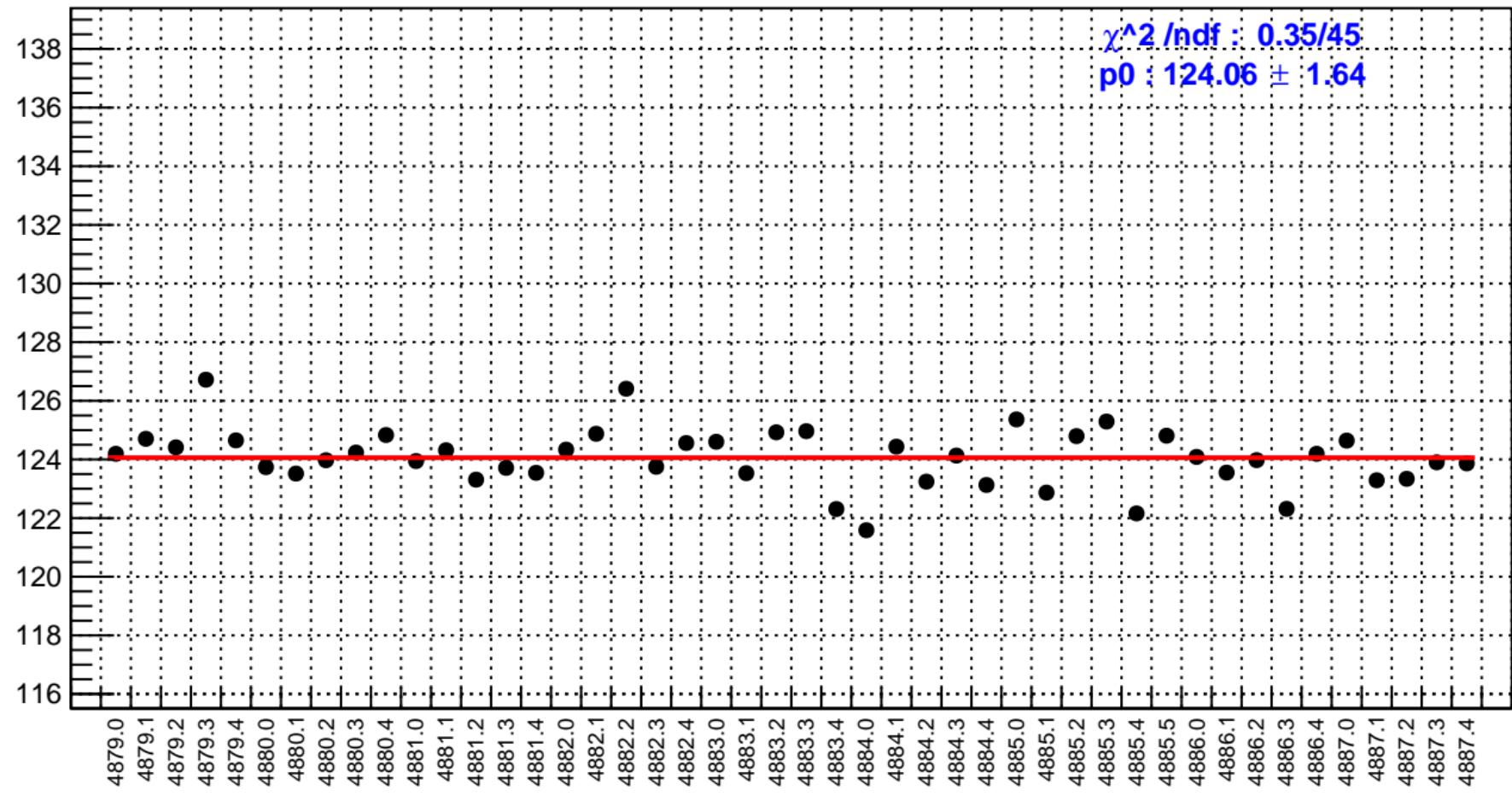


slug89: asym\_dsr.mean/ppb-reg\_asym\_dsr.mean/ppb

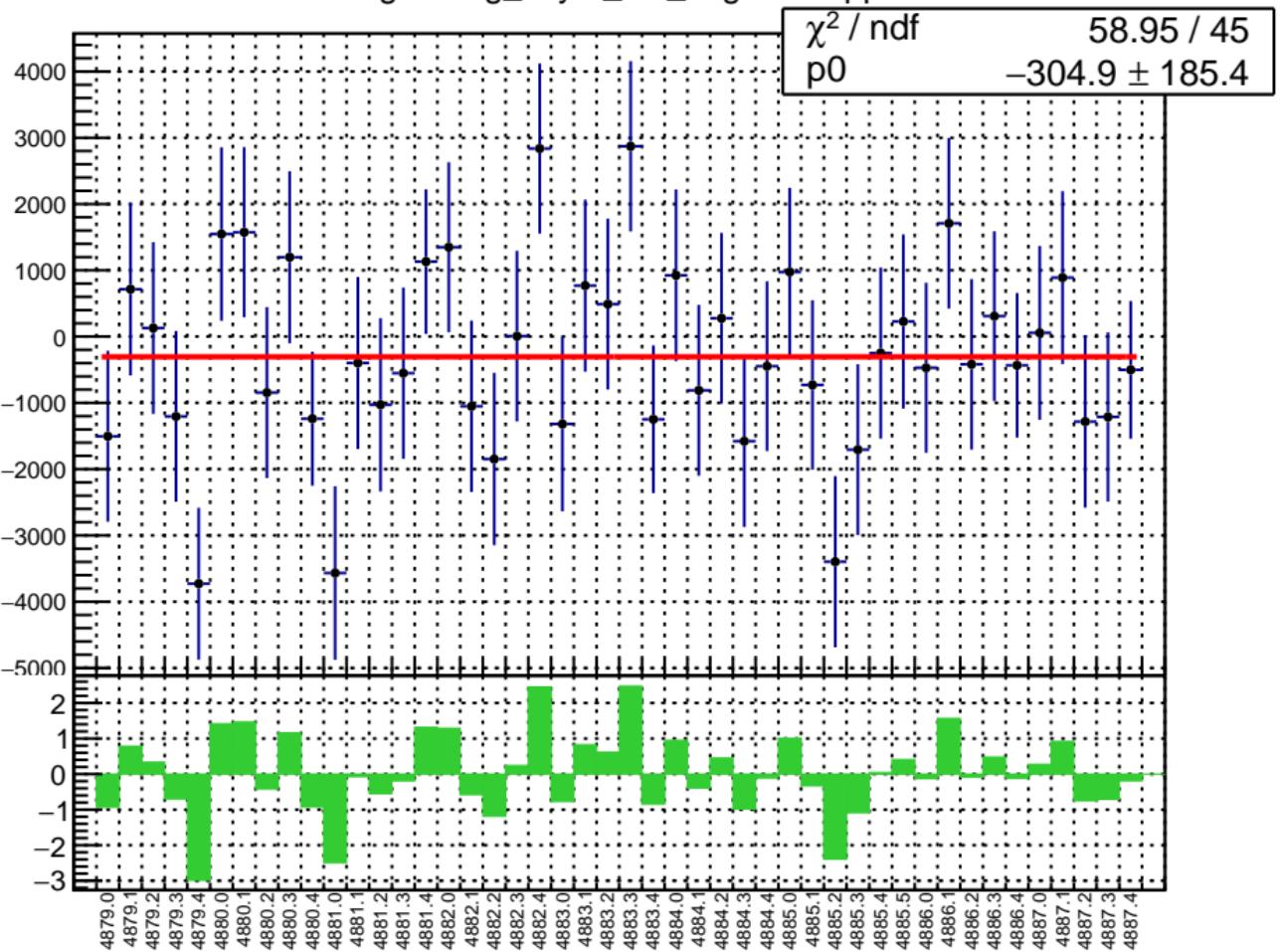
slug89: 1D Corr asym\_dsr.mean/ppb-reg\_asym\_dsr.mean/ppb



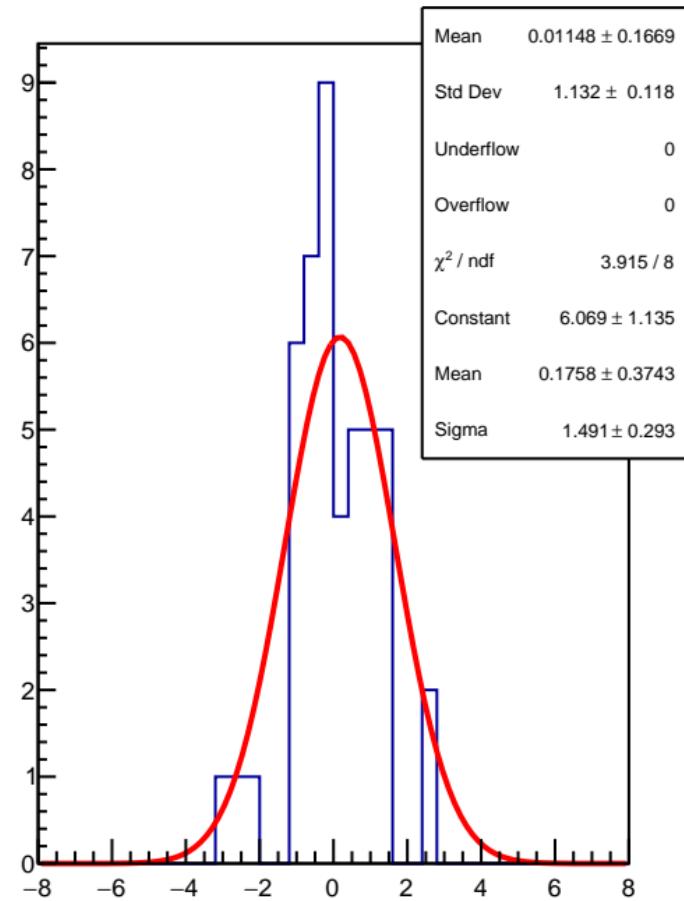
# slug89: reg\_asym\_dsr.rms/ppm



slug89: reg\_asym\_left\_avg.mean/ppb

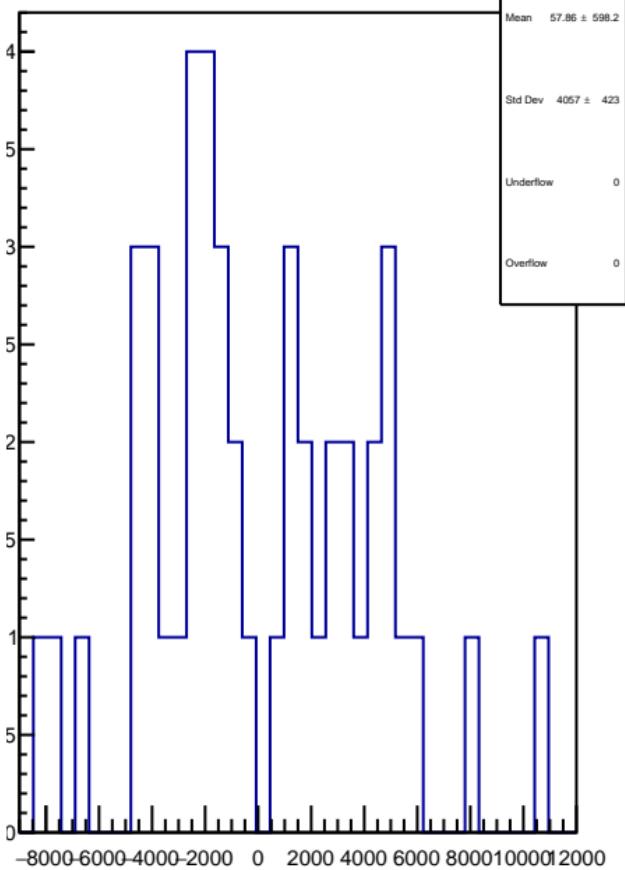
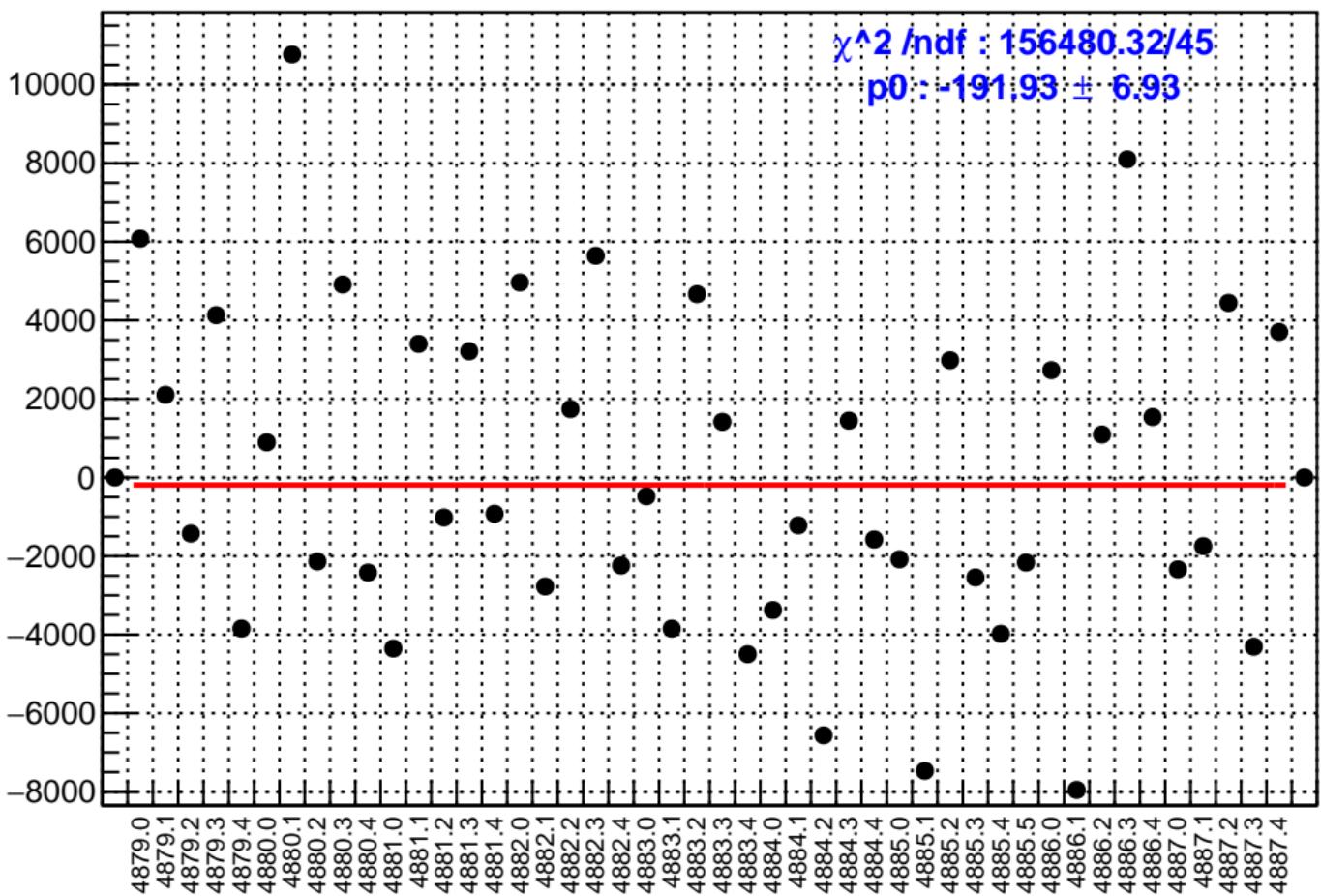


1D pull distribution

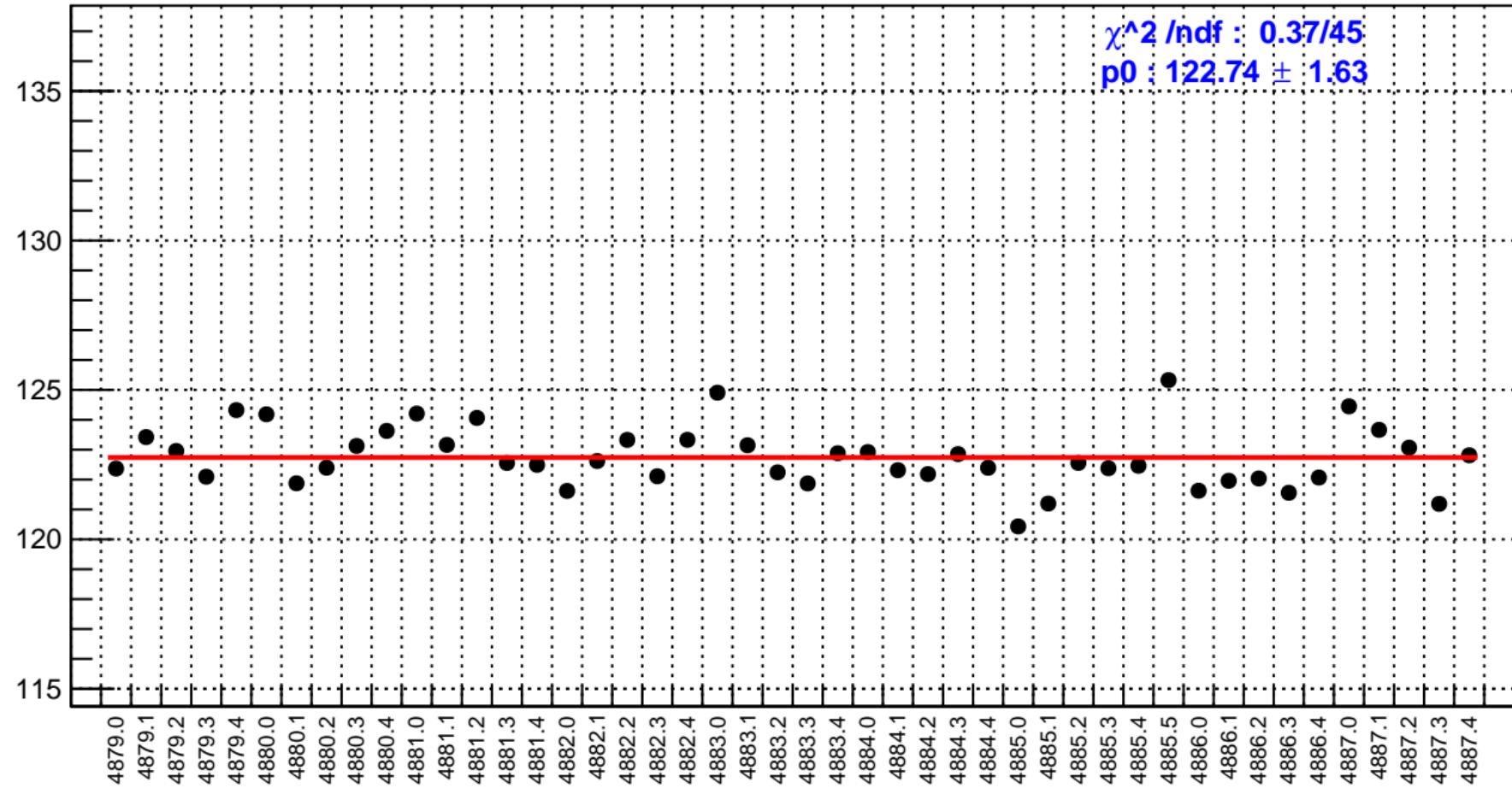


slug89: asym\_left\_avg.mean/ppb-reg\_asym\_left\_avg.mean/ppb

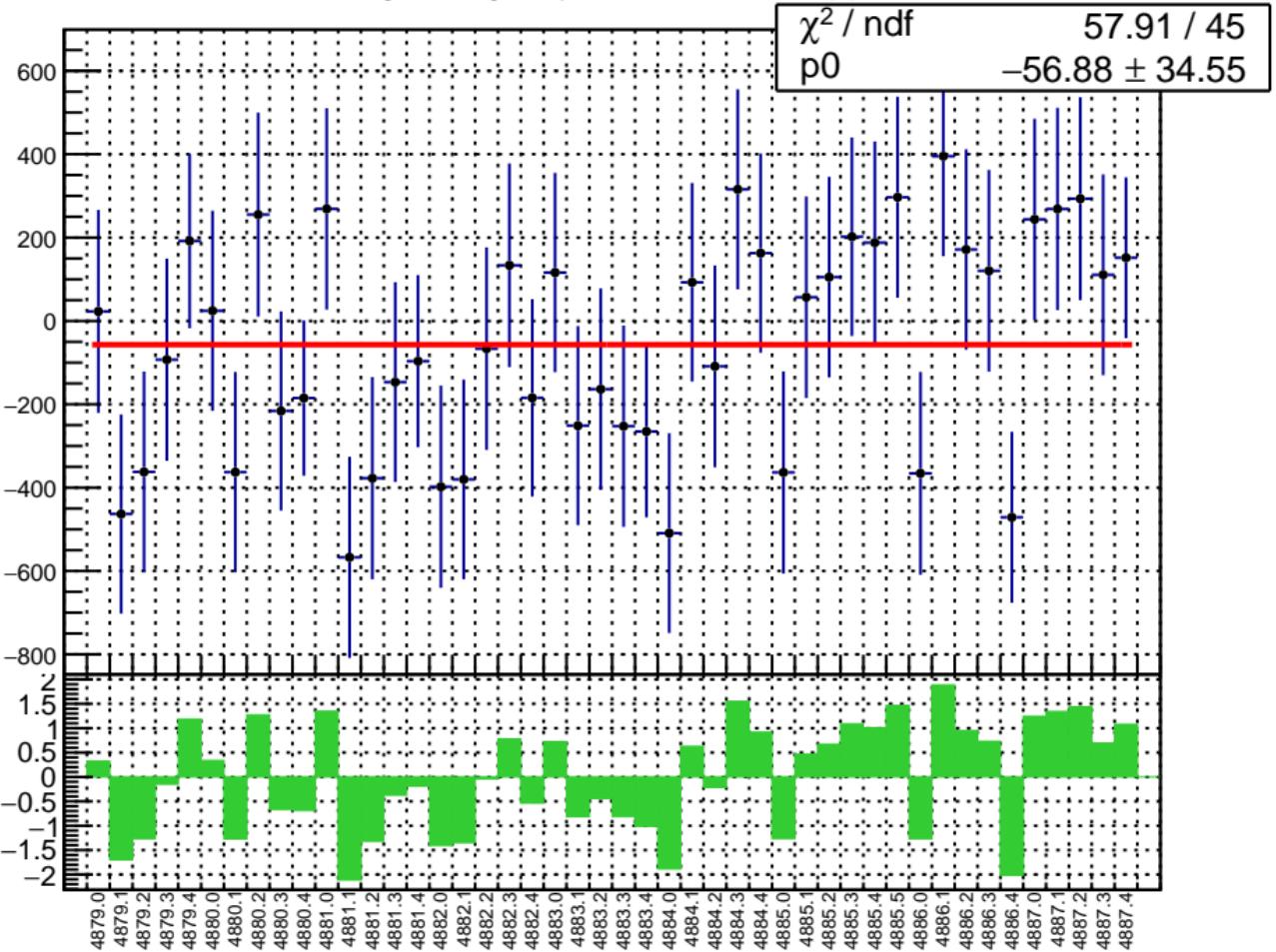
slug89: 1D Corr asym\_left\_avg.mean/ppb-reg\_asym\_left\_avg.mean/ppb



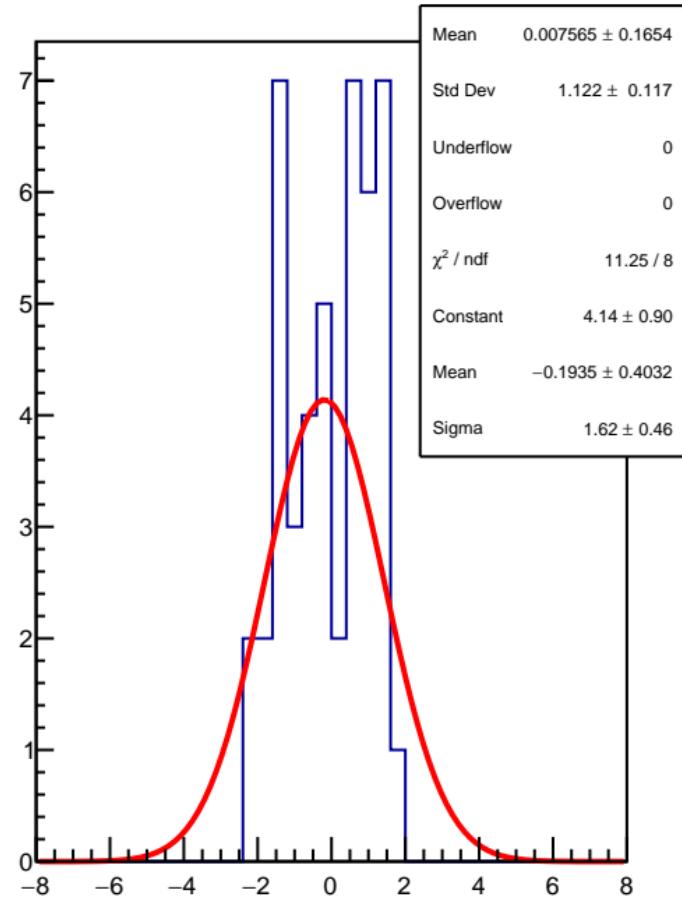
# slug89: reg\_asym\_left\_avg.rms/ppm



slug89: reg\_asym\_left\_dd.mean/ppb

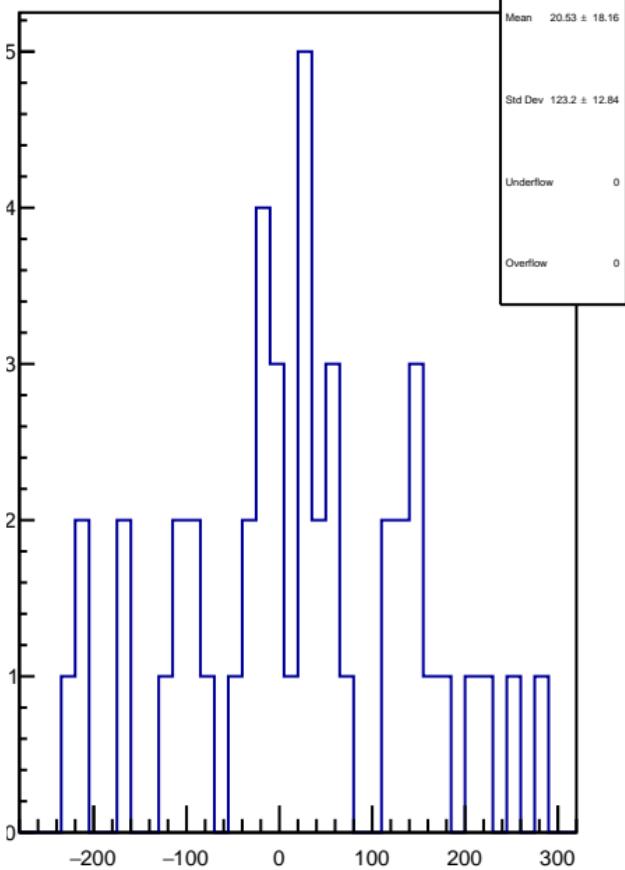
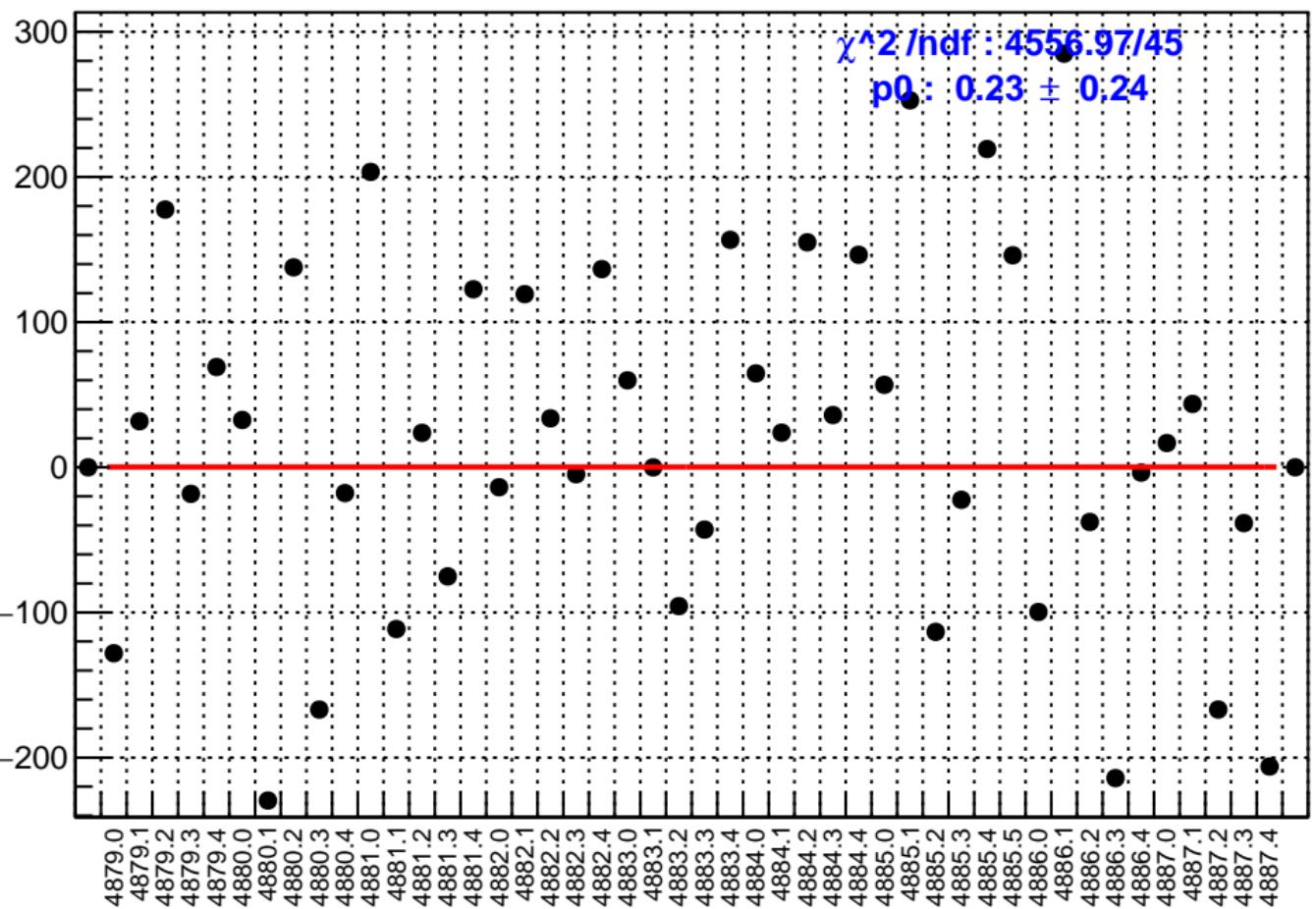


1D pull distribution

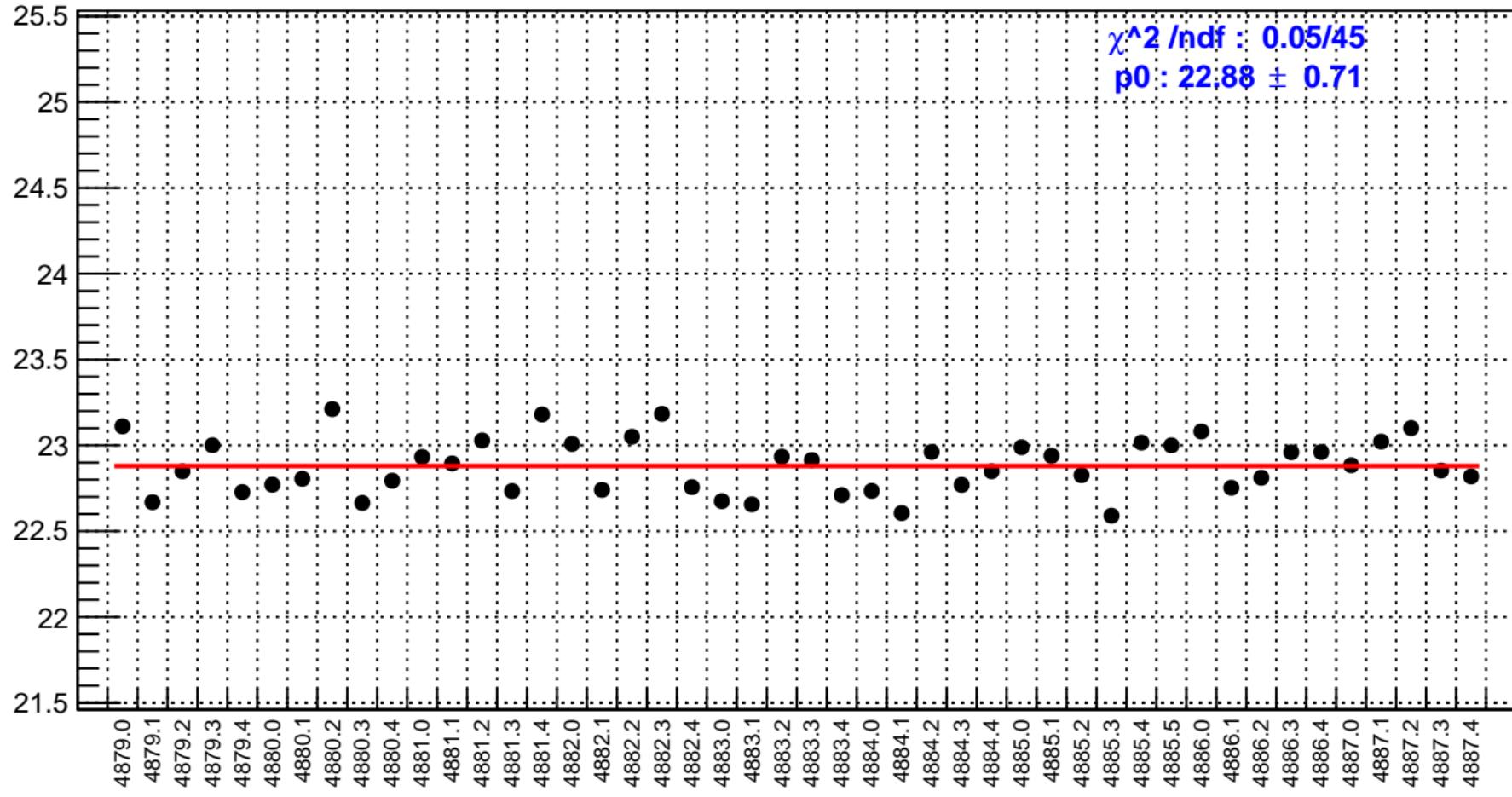


slug89: asym\_left\_dd.mean/ppb-reg\_asym\_left\_dd.mean/ppb

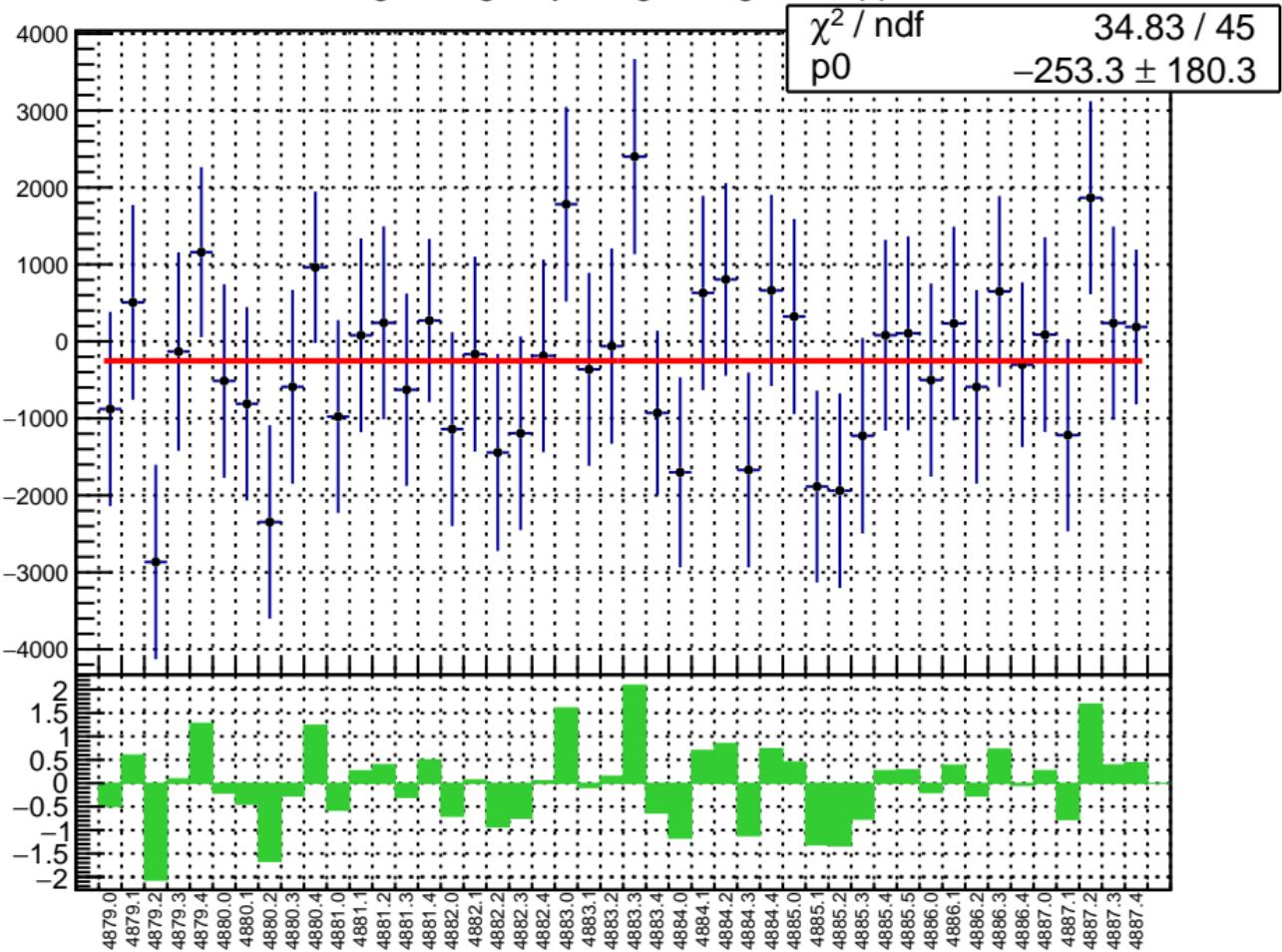
slug89: 1D Corr asym\_left\_dd.mean/ppb-reg\_asym\_left\_dd.mean/ppb



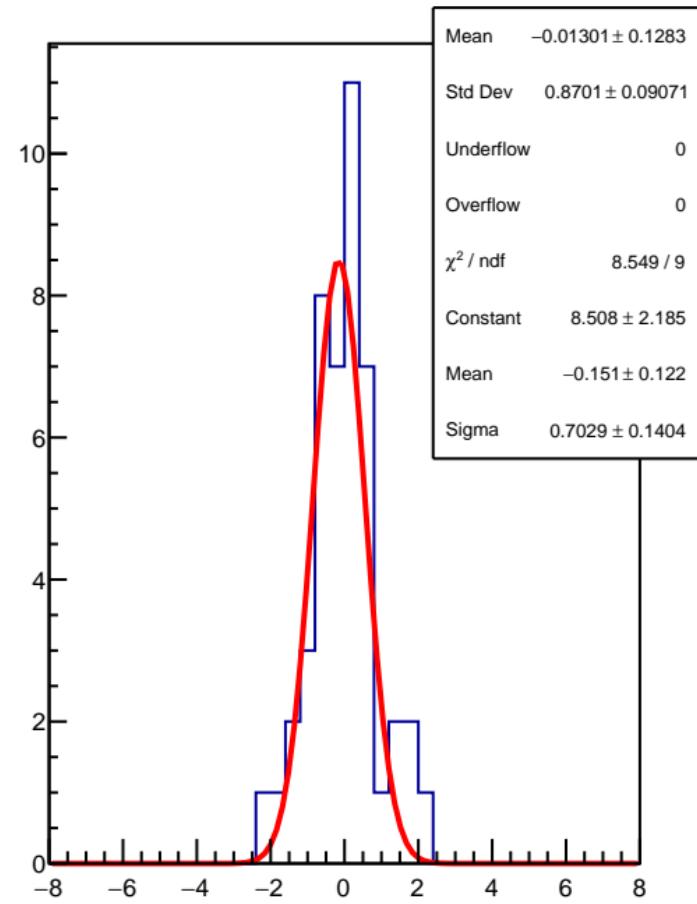
# slug89: reg\_asym\_left\_dd.rms/ppm



slug89: reg\_asym\_right\_avg.mean/ppb

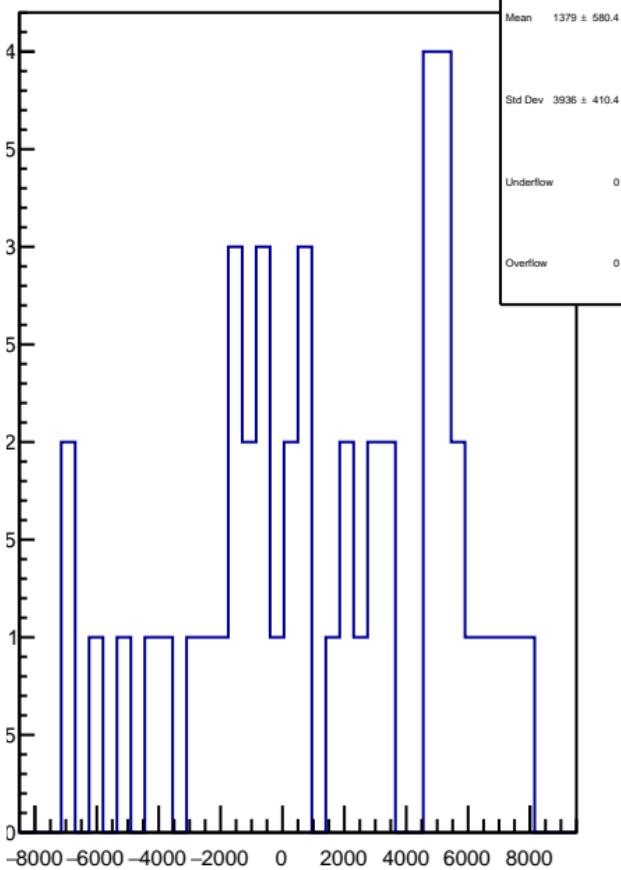
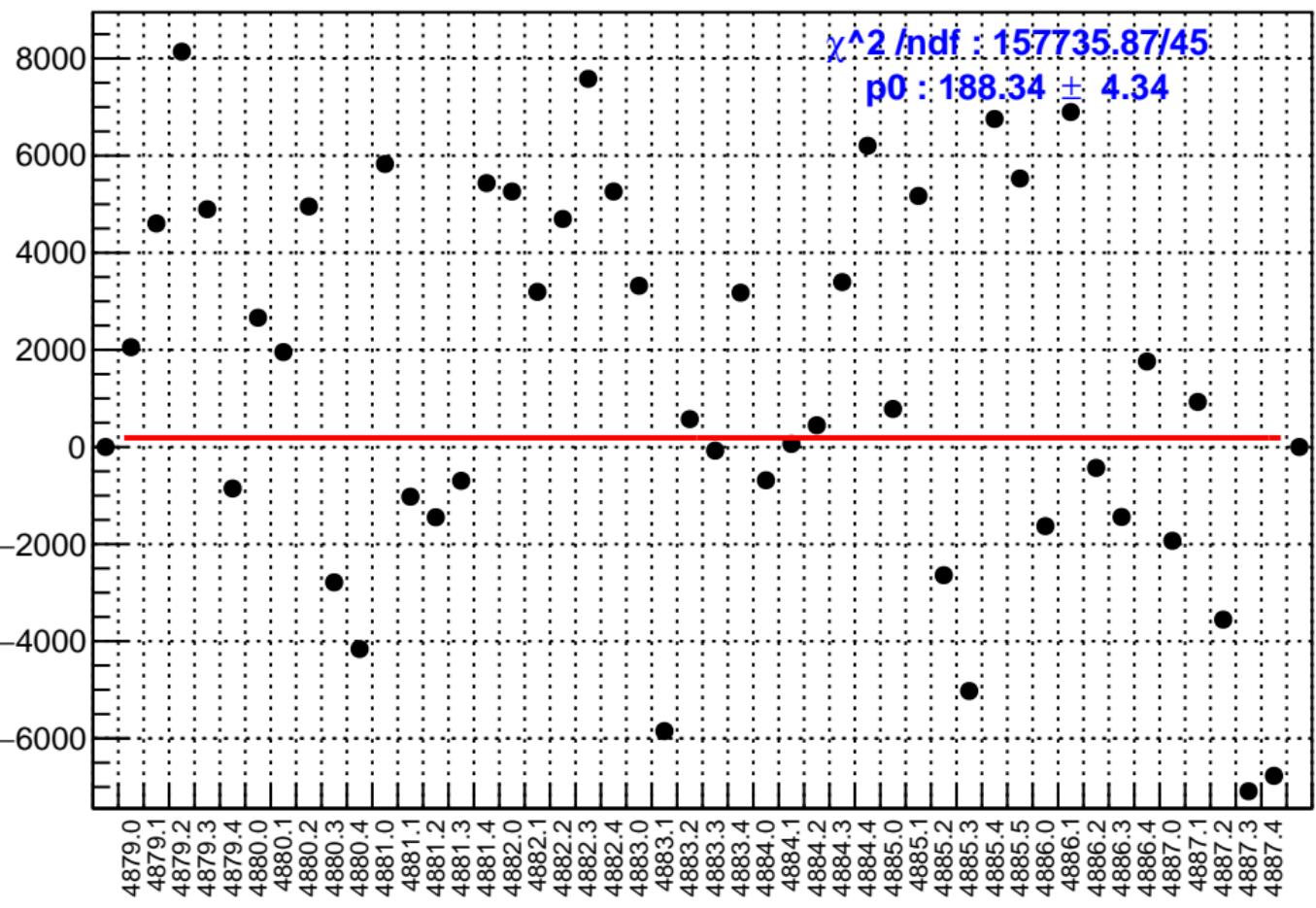


1D pull distribution

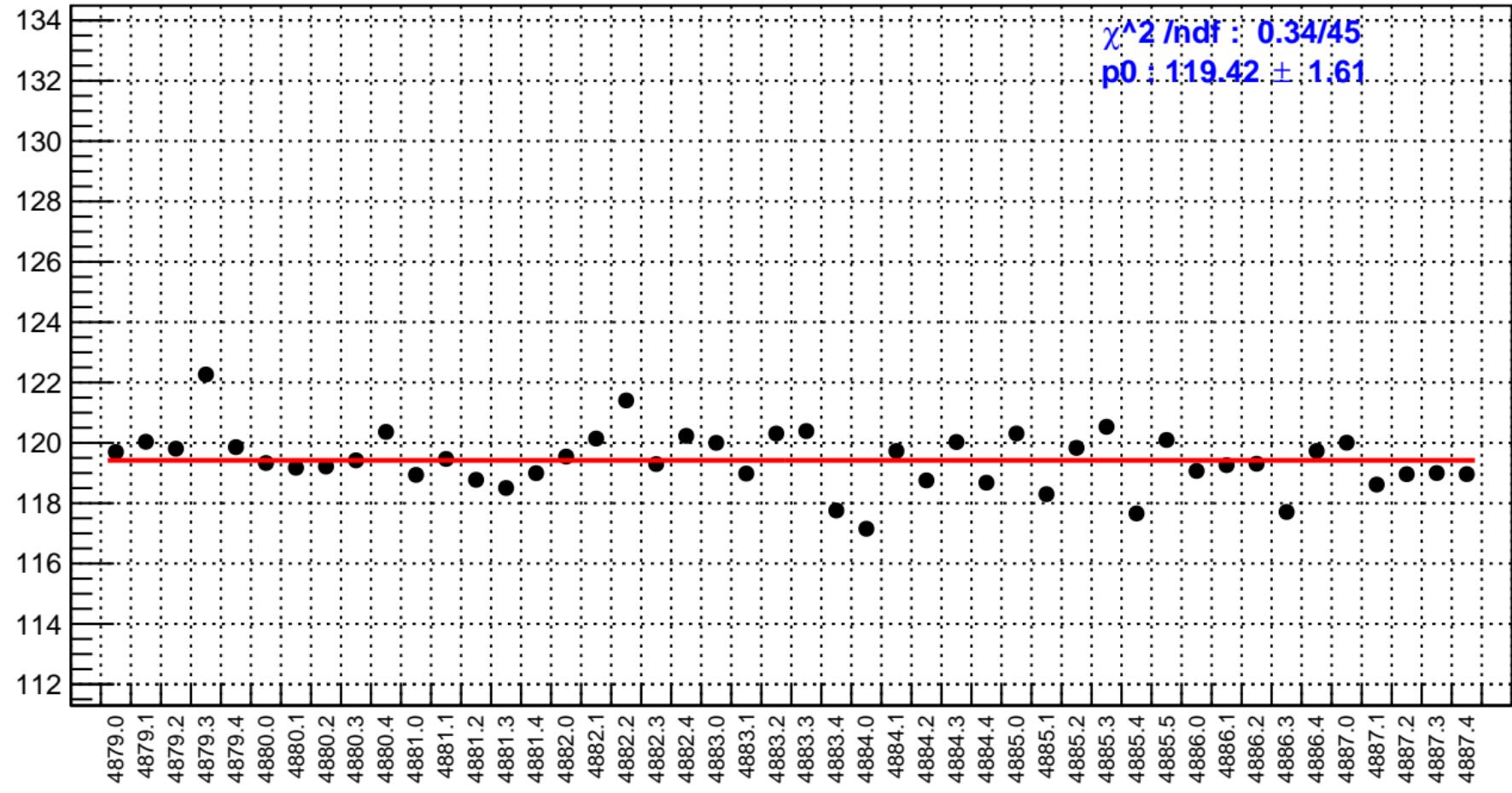


slug89: asym\_right\_avg.mean/ppb-reg\_asym\_right\_avg.mean/ppb

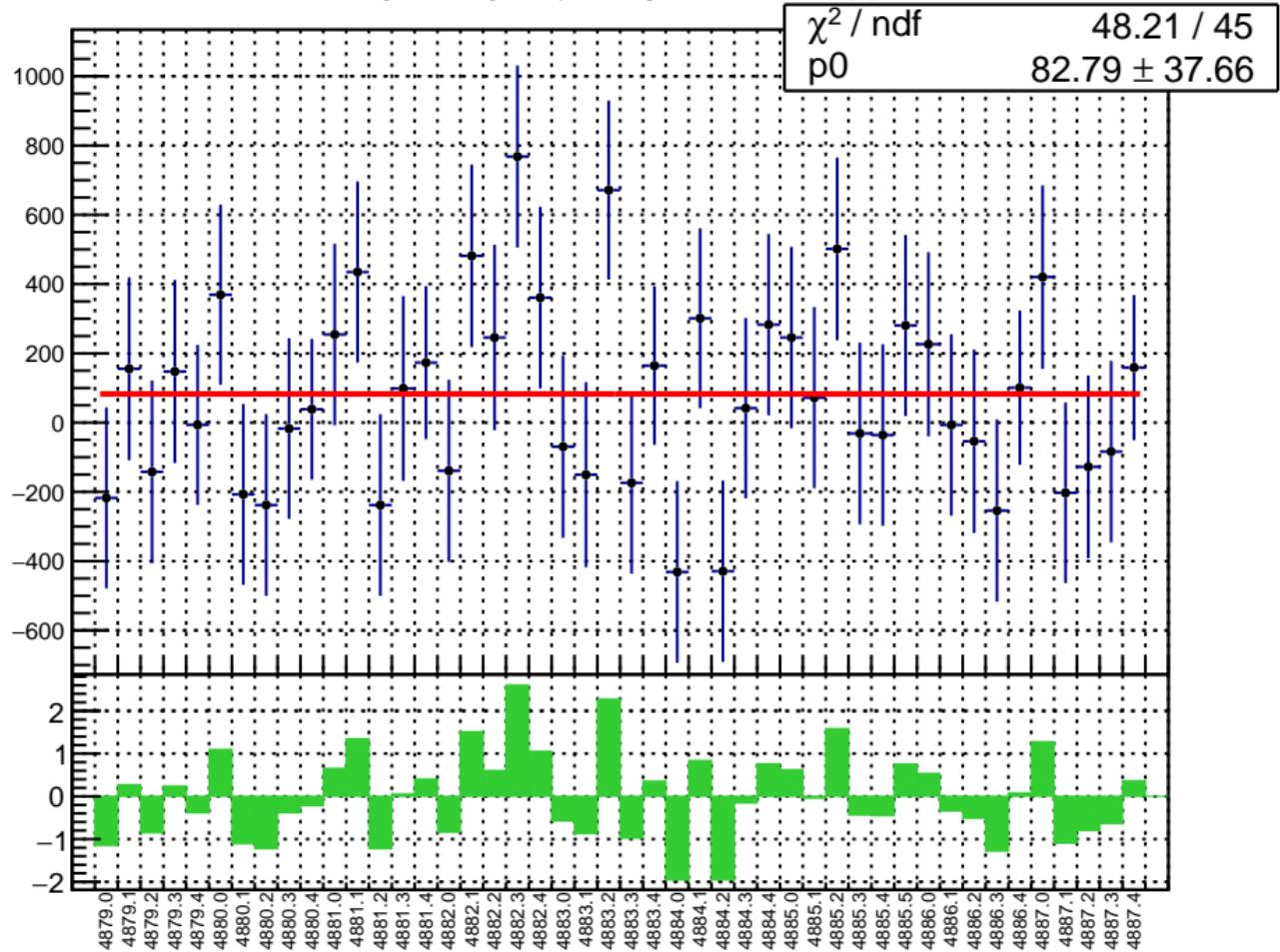
slug89: 1D Corr asym\_right\_avg.mean/ppb-reg\_asym\_right\_avg.mean/ppb



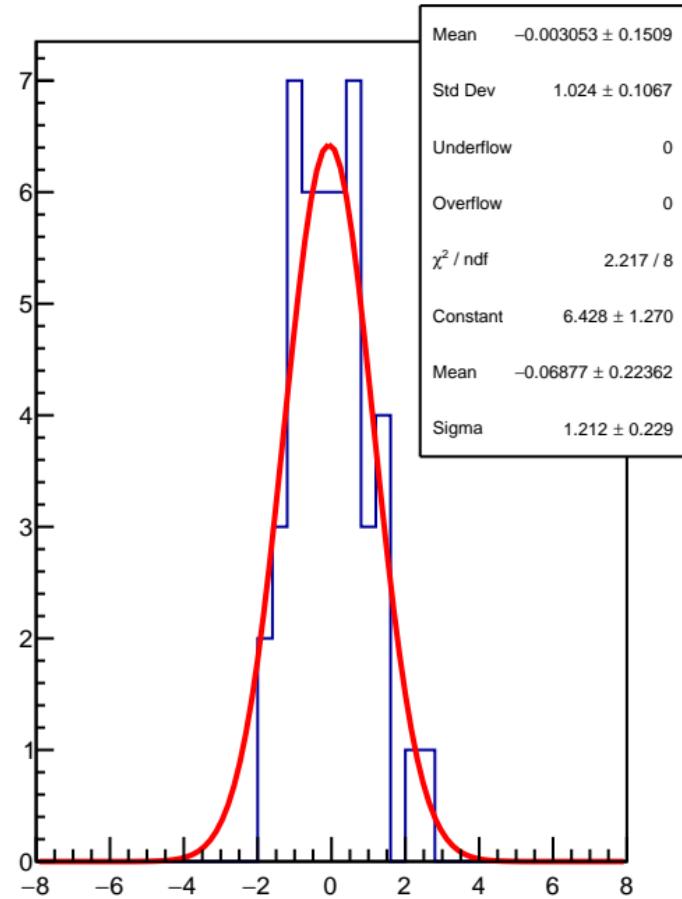
# slug89: reg\_asym\_right\_avg.rms/ppm



slug89: reg\_asym\_right\_dd.mean/ppb

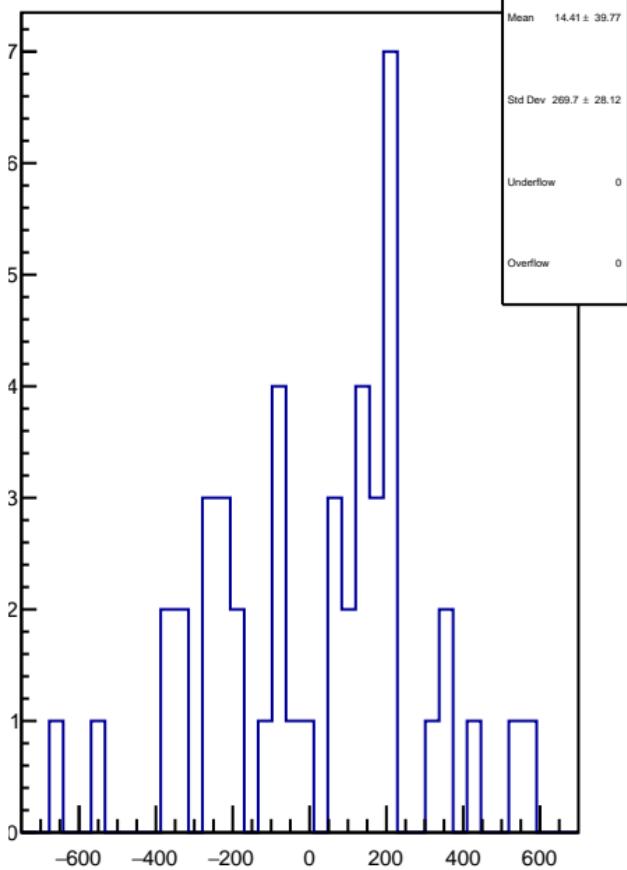
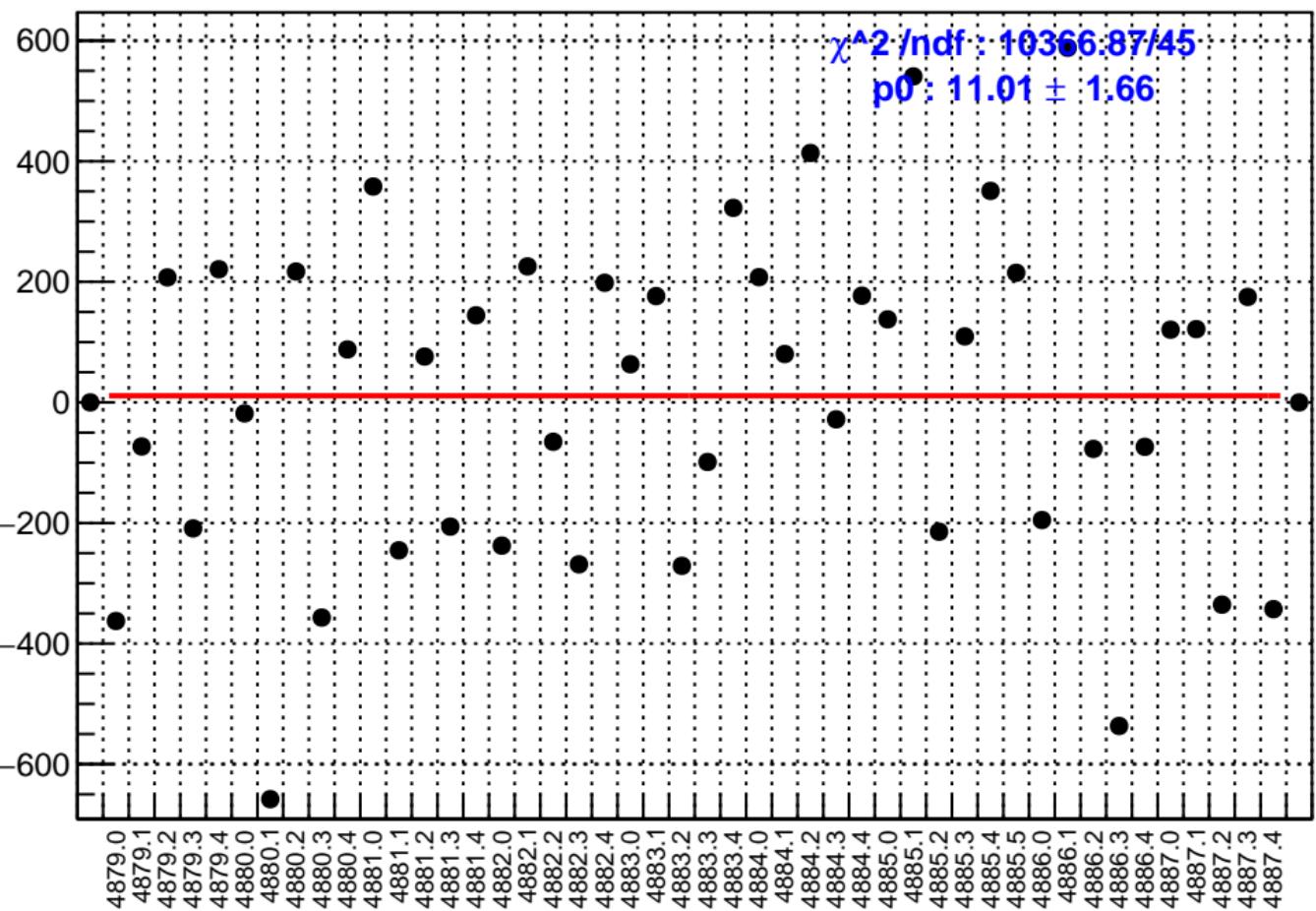


1D pull distribution

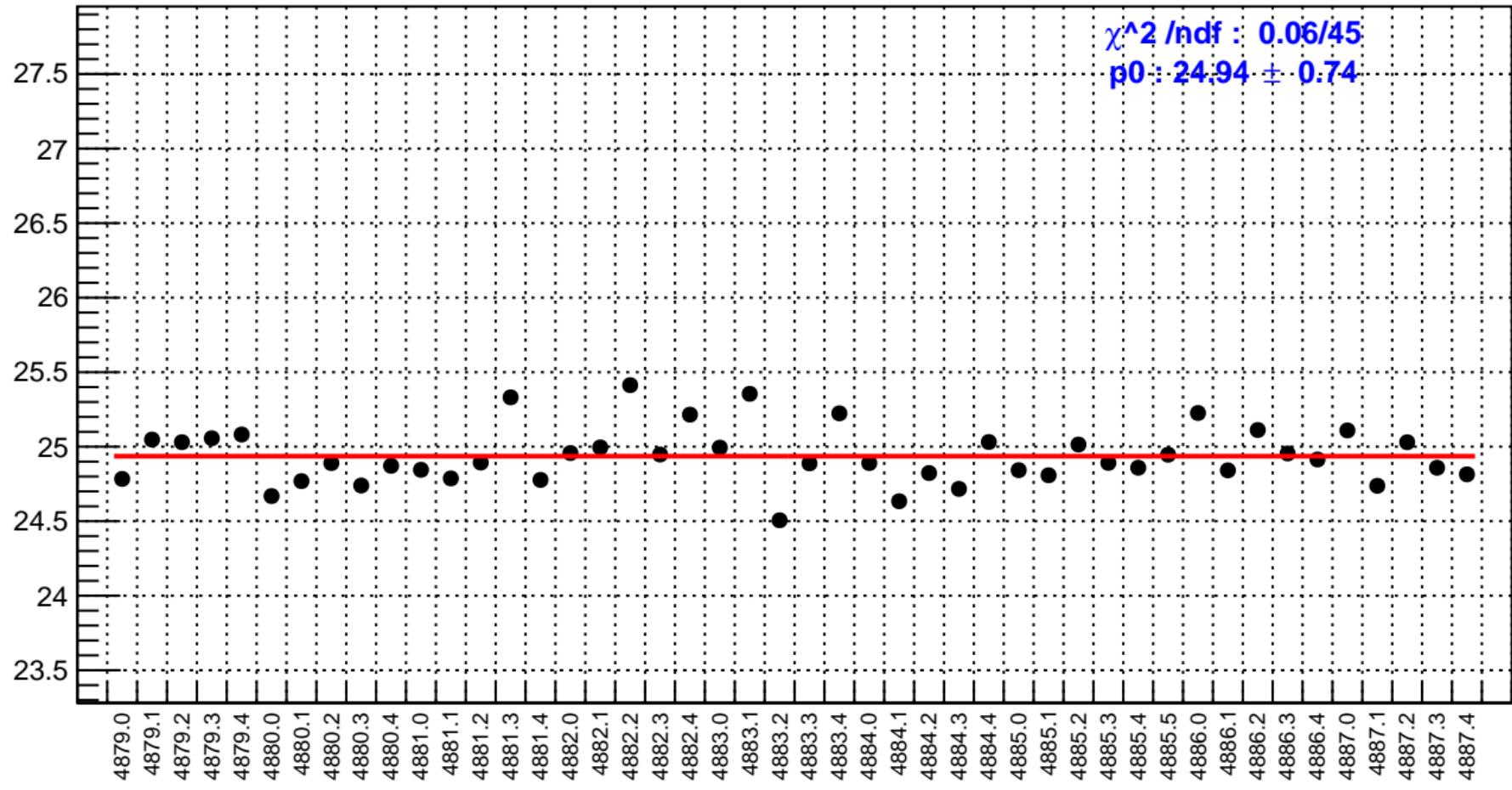


slug89: asym\_right\_dd.mean/ppb-reg\_asym\_right\_dd.mean/ppb

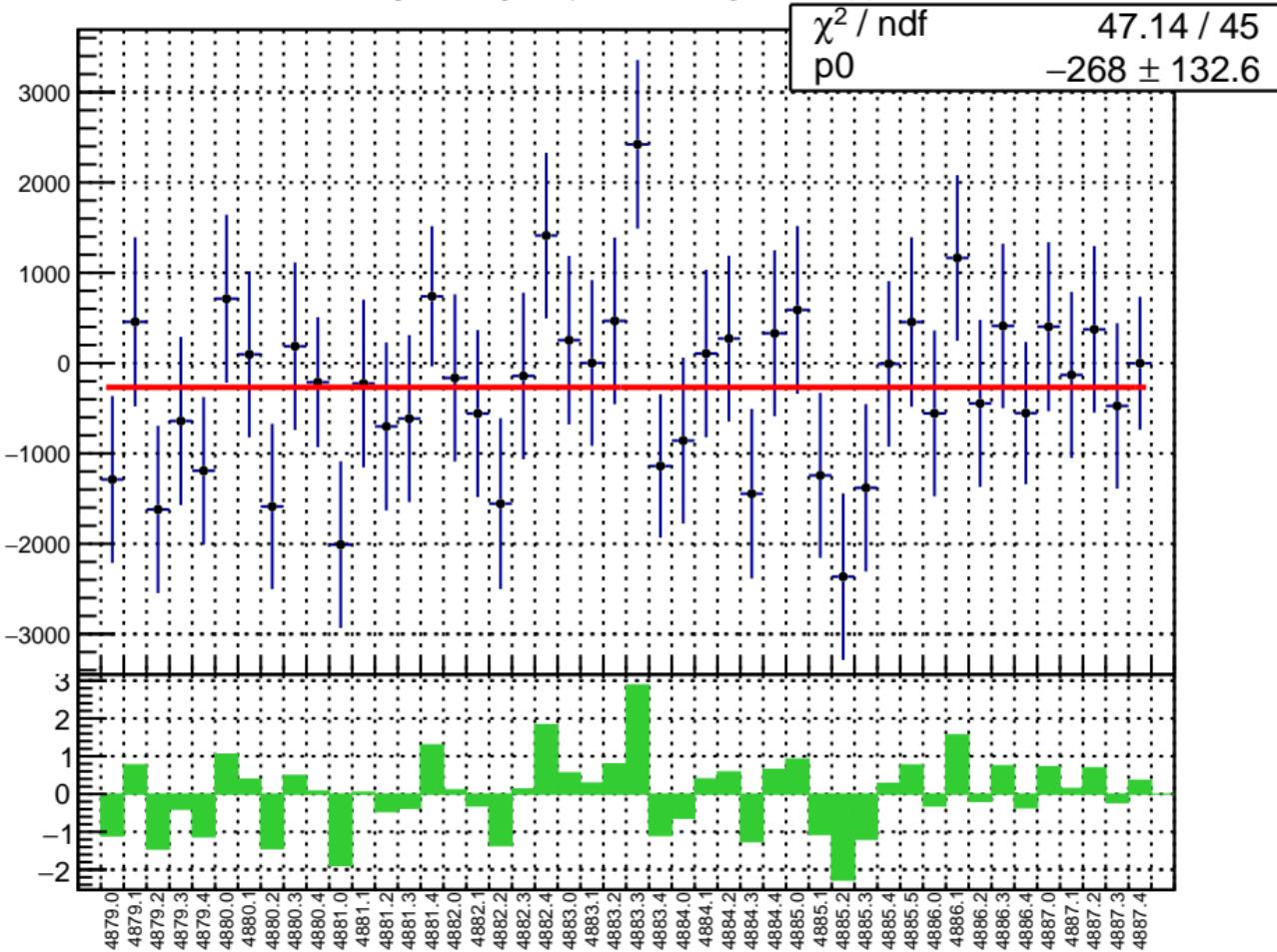
slug89: 1D Corr asym\_right\_dd.mean/ppb-reg\_asym\_right\_dd.mean/ppb



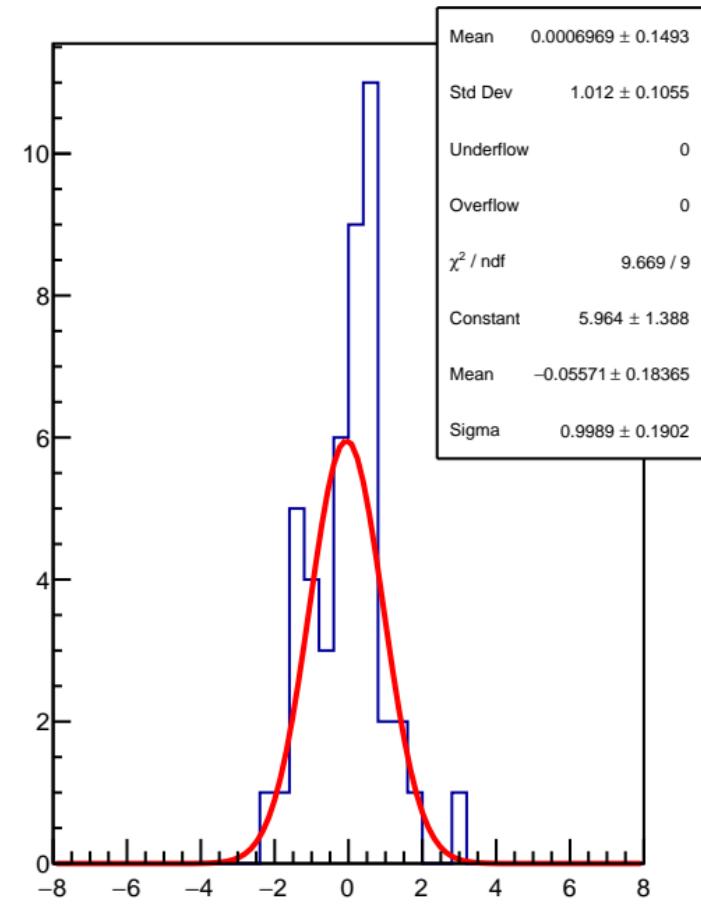
# slug89: reg\_asym\_right\_dd.rms/ppm



slug89: reg\_asym\_us\_avg.mean/ppb

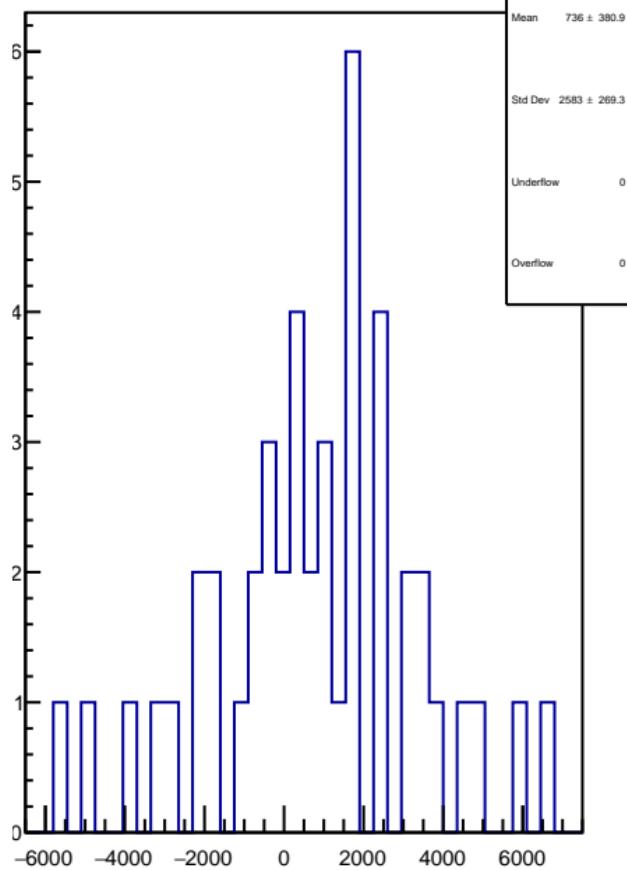
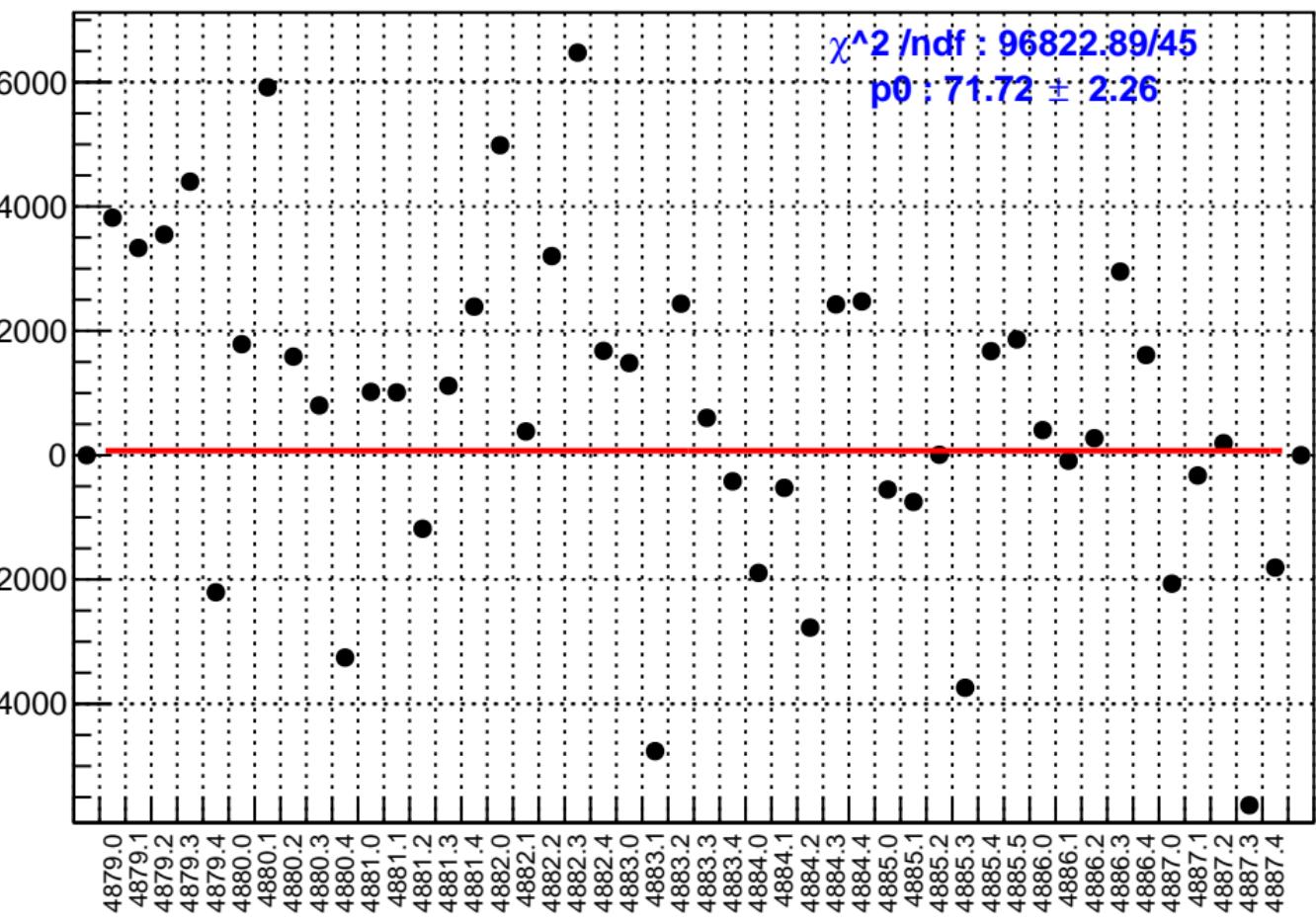


1D pull distribution

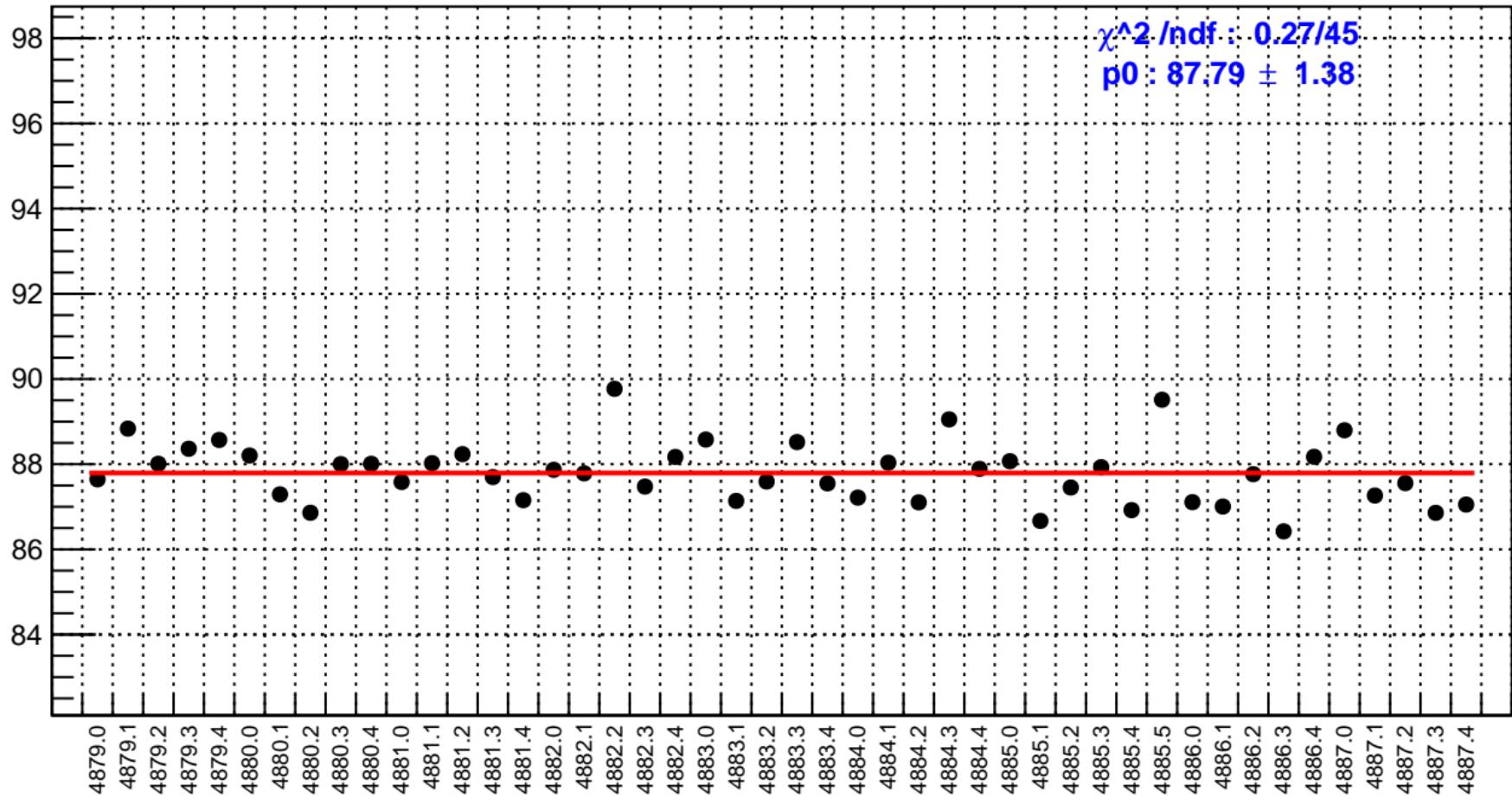


slug89: asym\_us\_avg.mean/ppb-reg\_asym\_us\_avg.mean/ppb

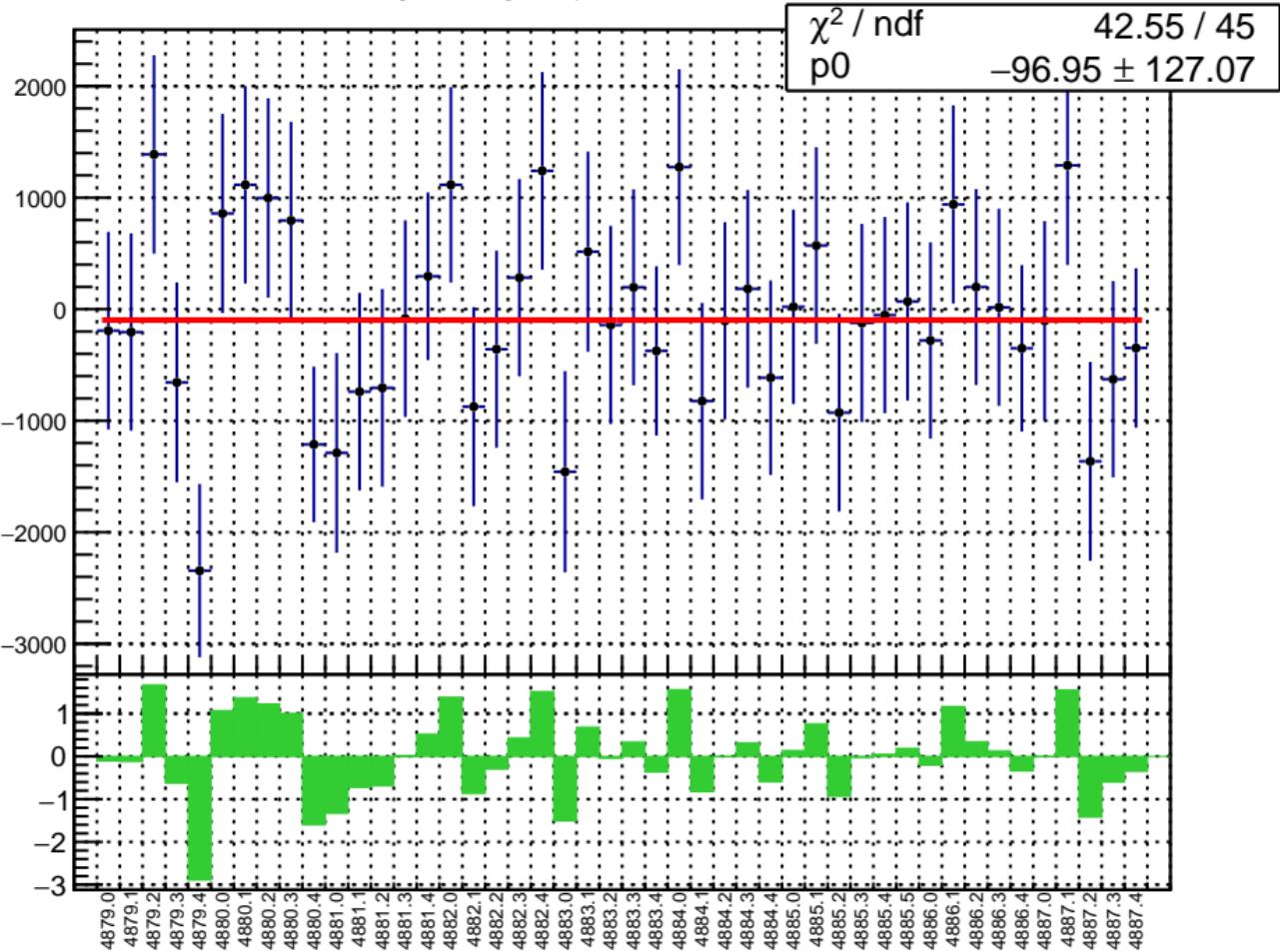
slug89: 1D Corr asym\_us\_avg.mean/ppb-reg\_asym\_us\_avg.mean/ppb



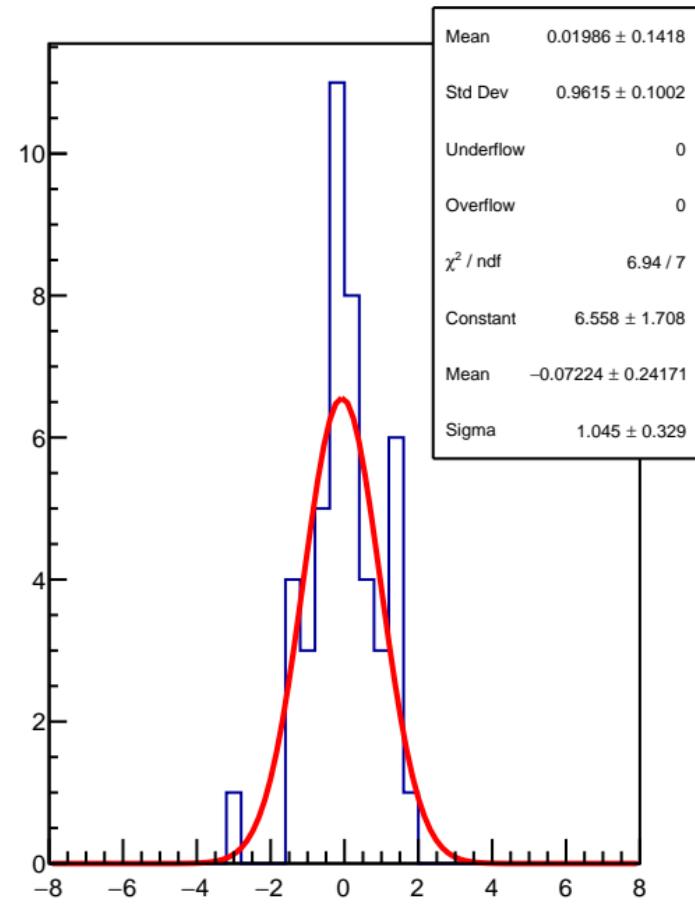
# slug89: reg\_asym\_us\_avg.rms/ppm



## slug89: reg\_asym\_us\_dd.mean/ppb

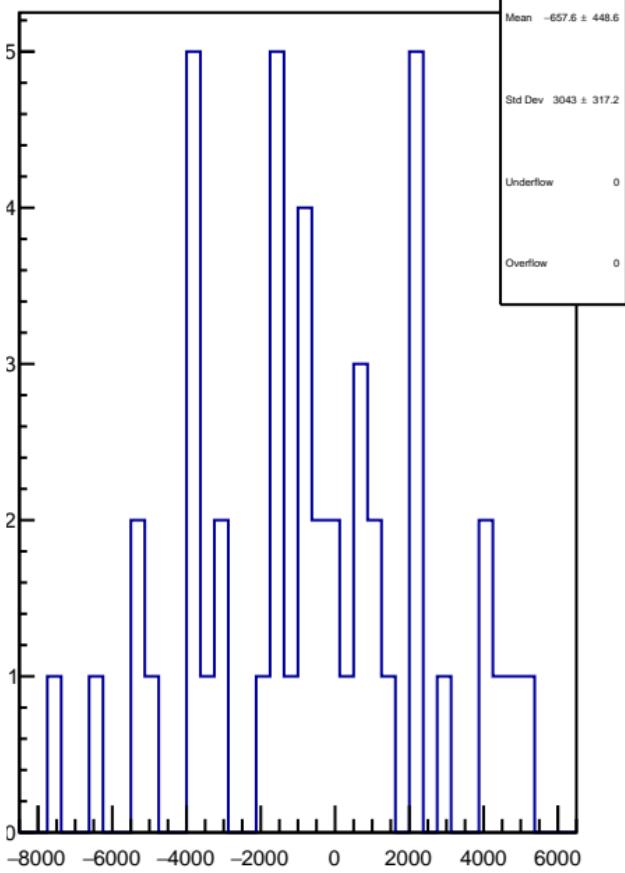
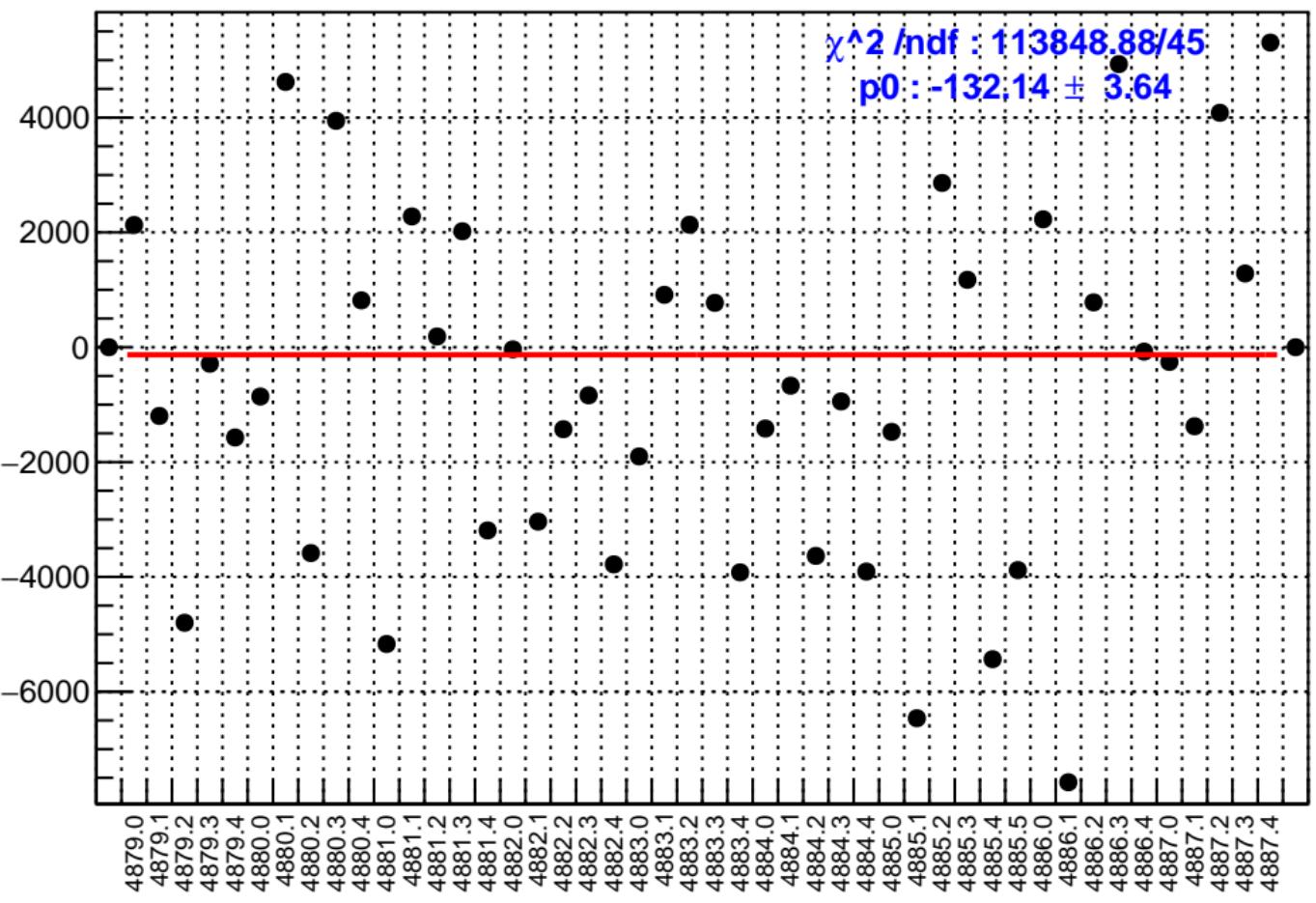


## 1D pull distribution

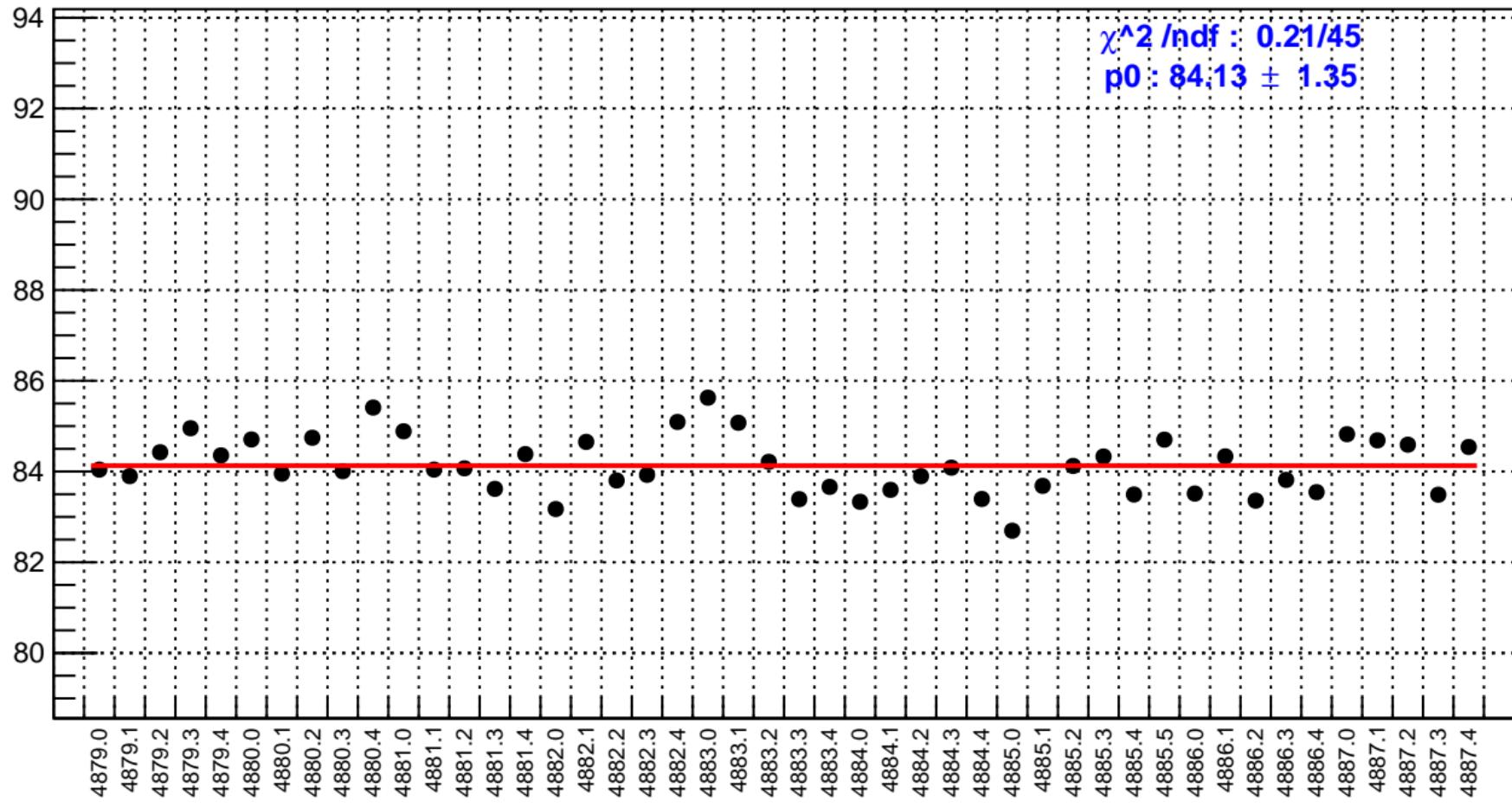


slug89: asym\_us\_dd.mean/ppb-reg\_asym\_us\_dd.mean/ppb

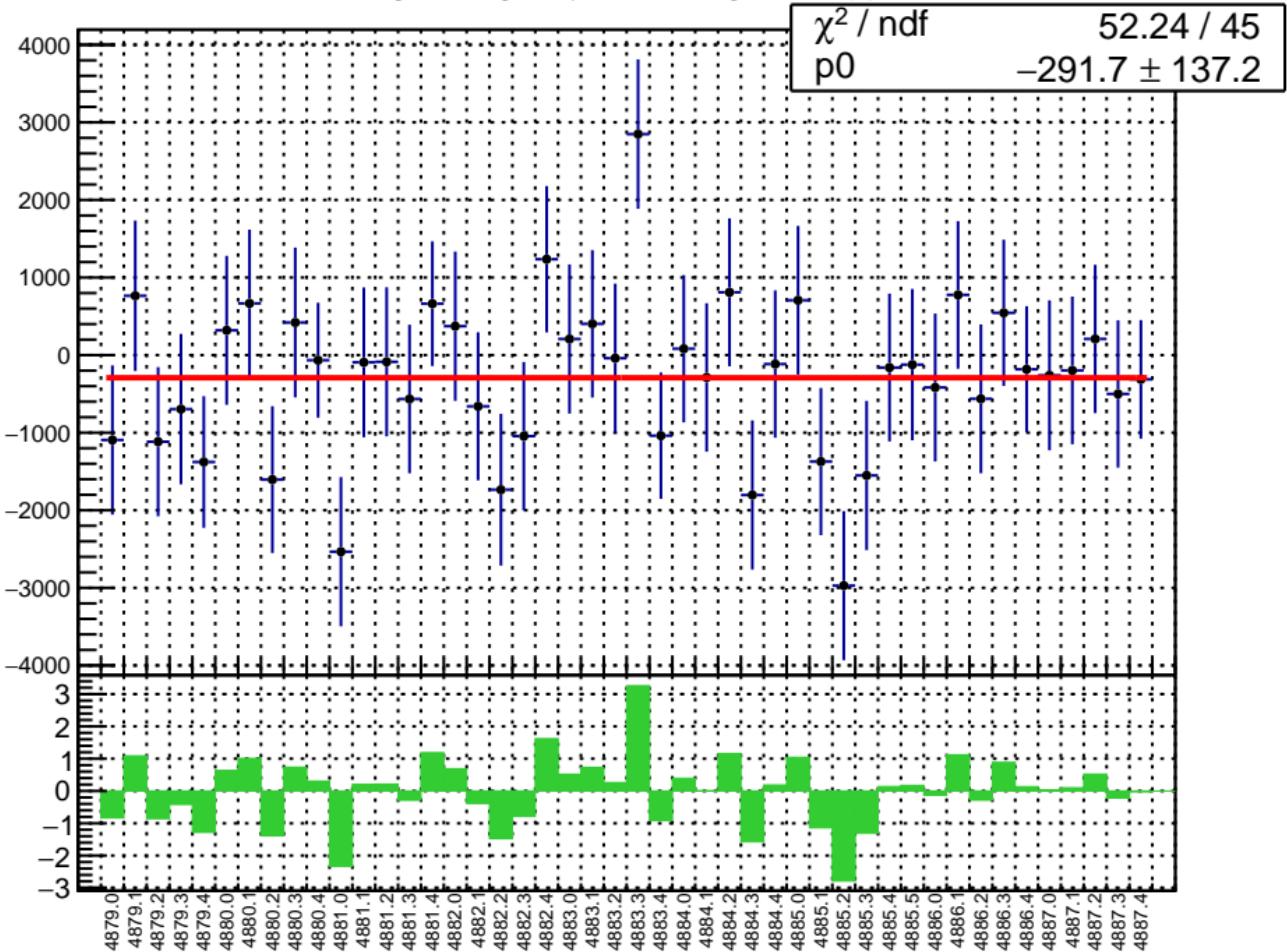
slug89: 1D Corr asym\_us\_dd.mean/ppb-reg\_asym\_us\_dd.mean/ppb



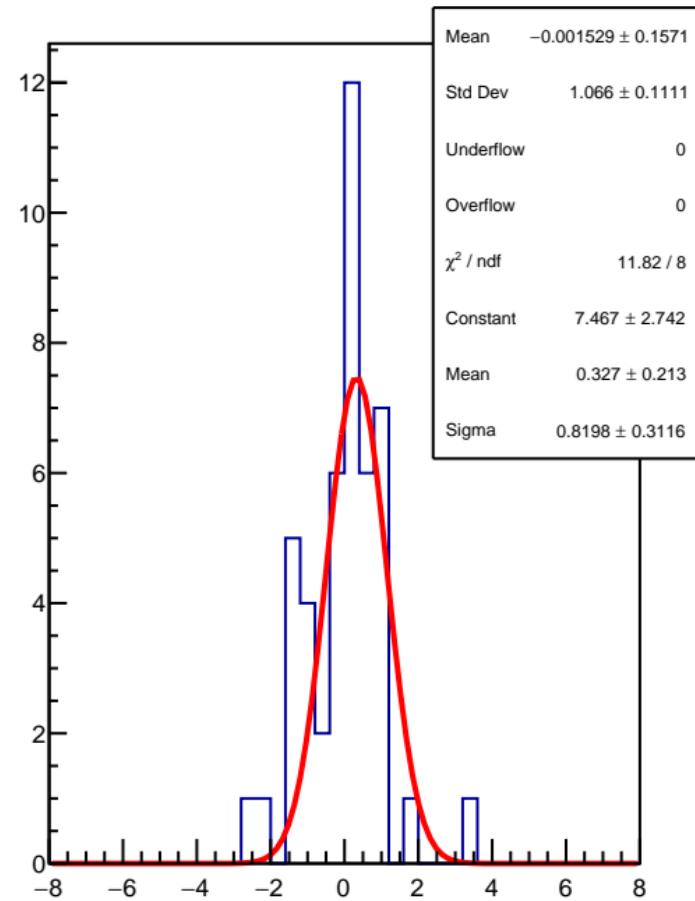
# slug89: reg\_asym\_us\_dd.rms/ppm

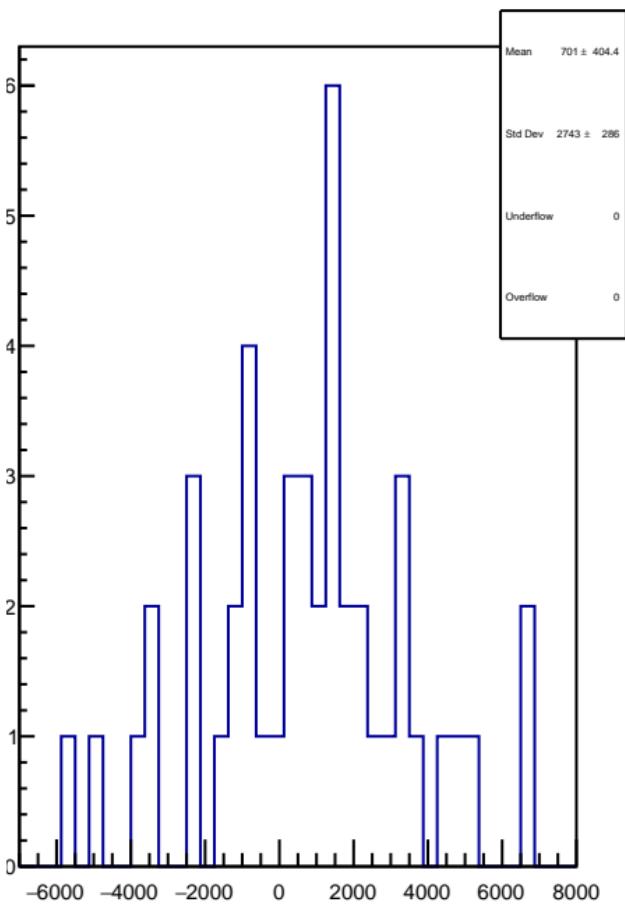
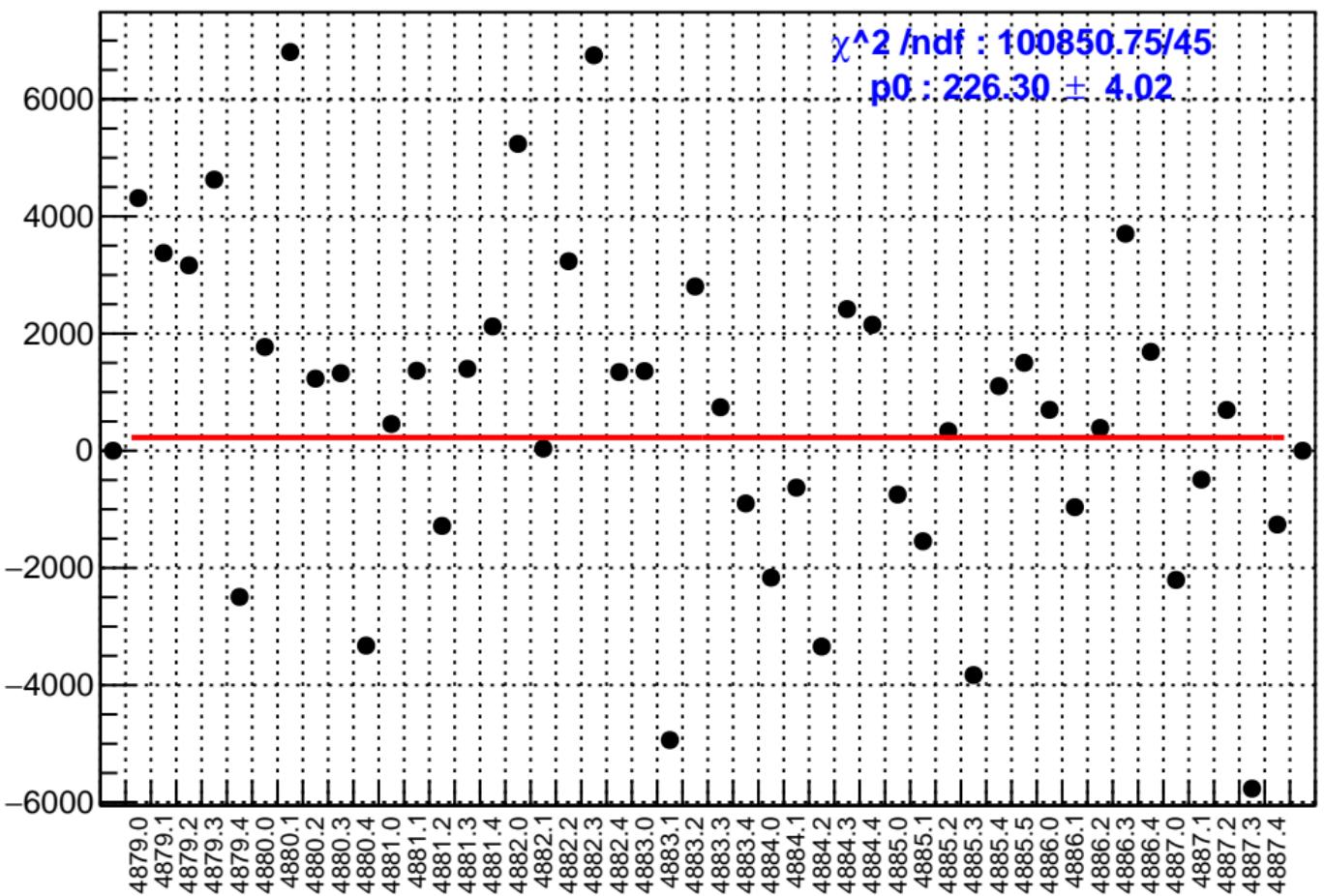


slug89: reg\_asym\_ds\_avg.mean/ppb

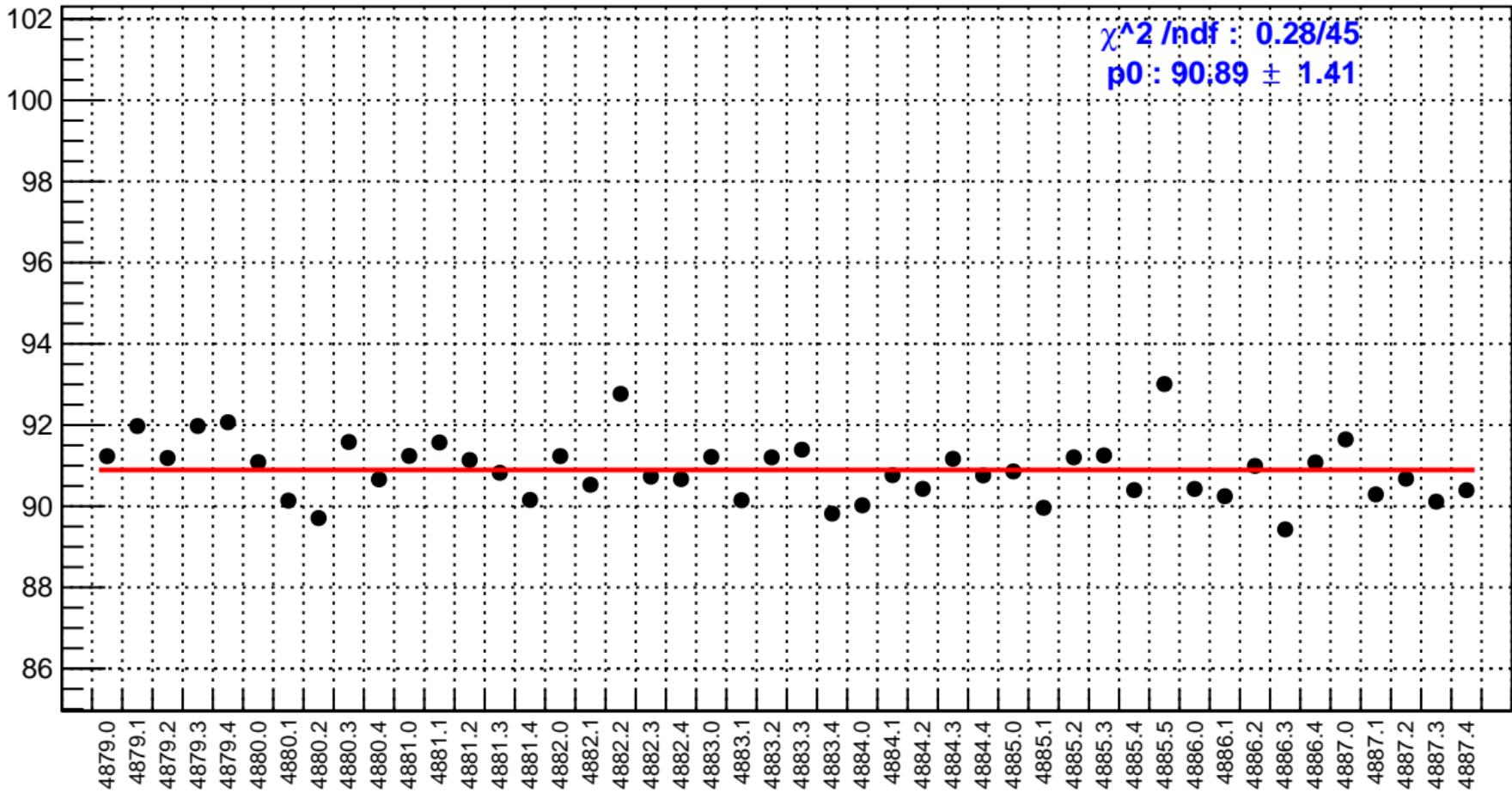


1D pull distribution

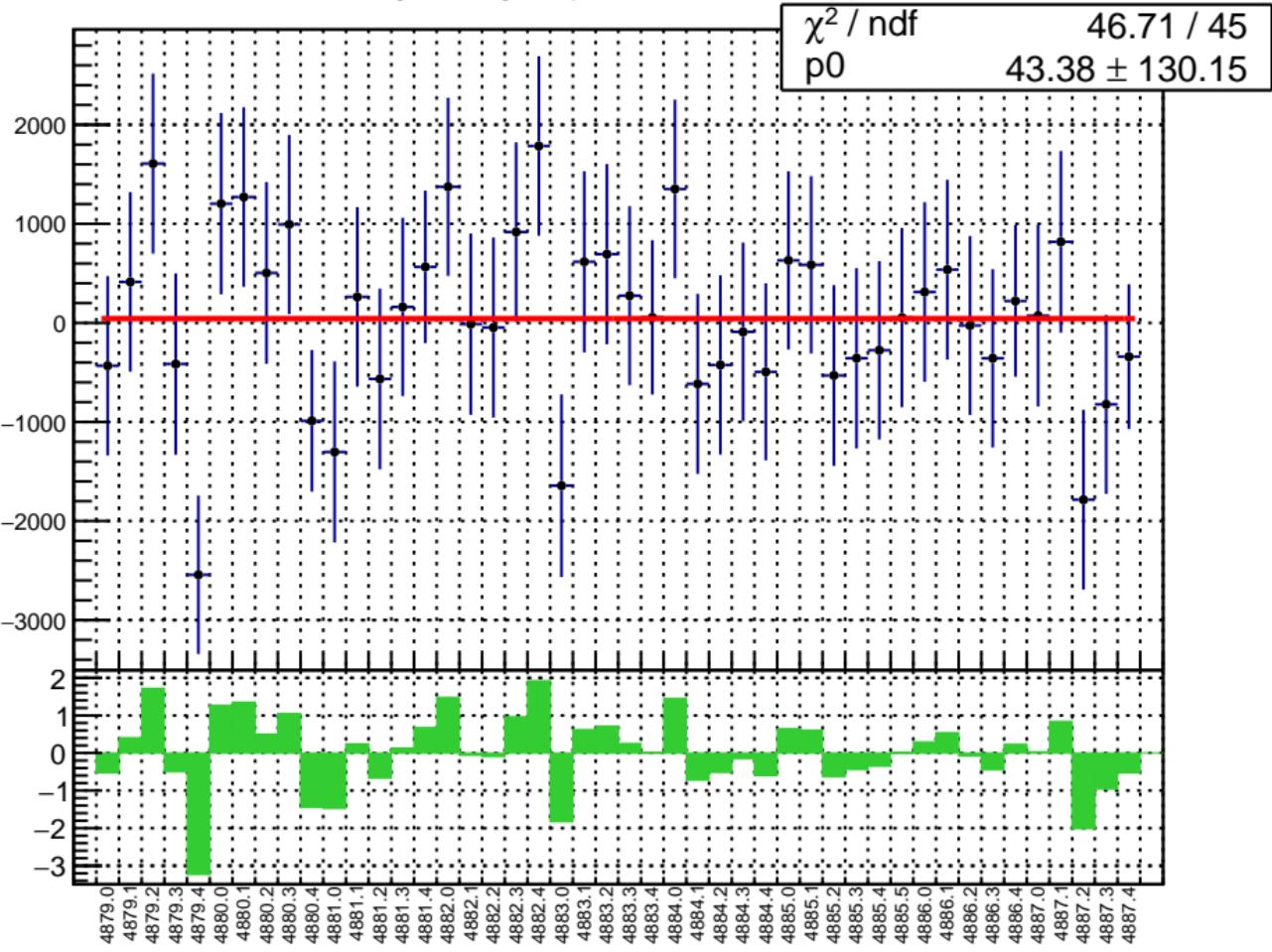




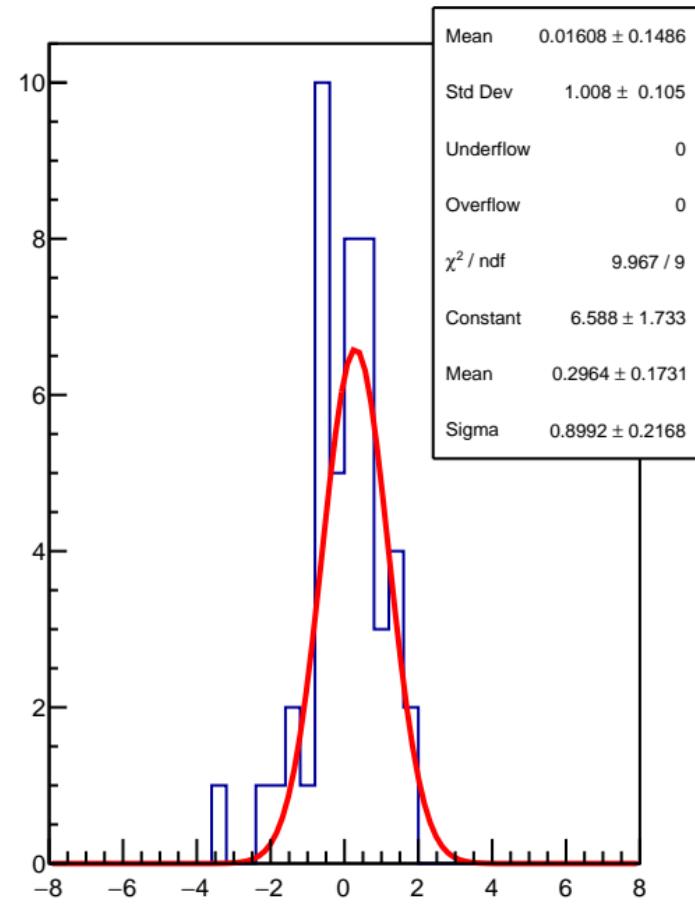
# slug89: reg\_asym\_ds\_avg.rms/ppm



## slug89: reg\_asym\_ds\_dd.mean/ppb

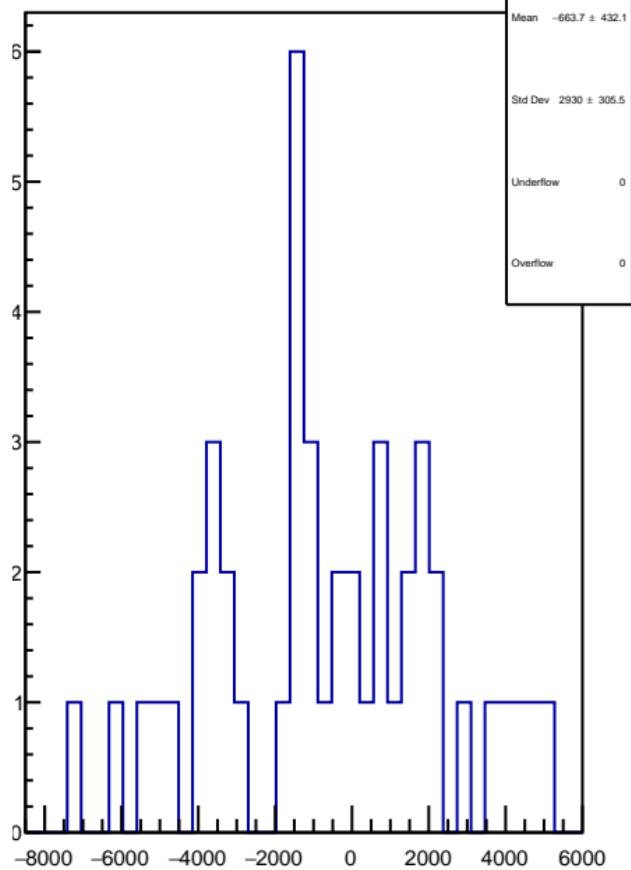
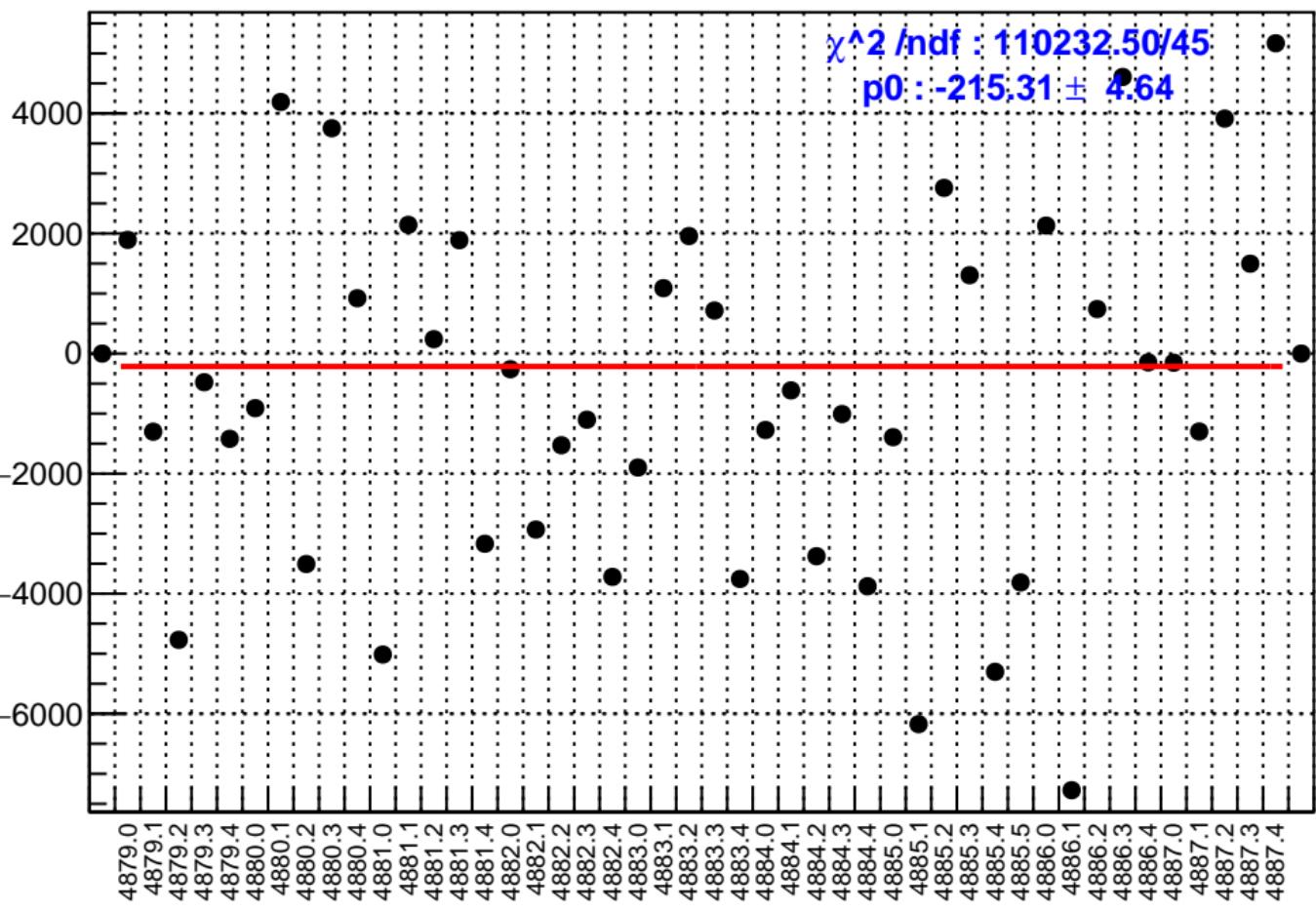


## 1D pull distribution

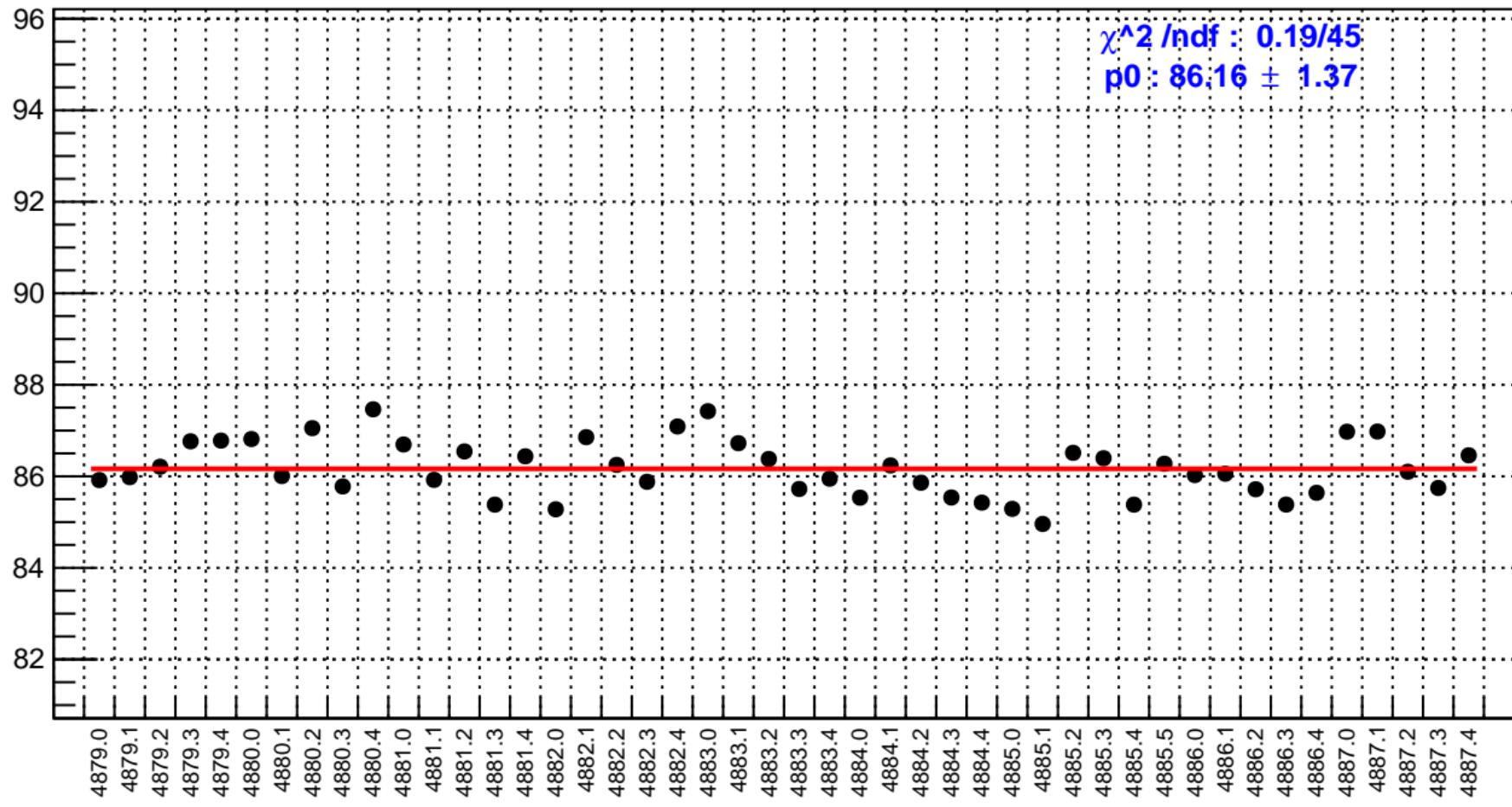


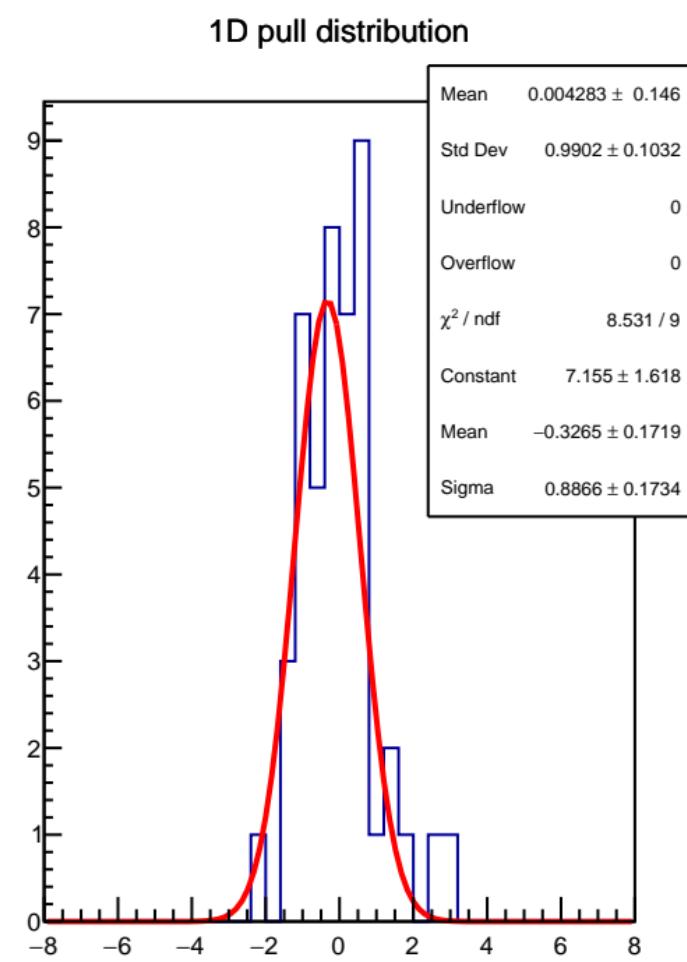
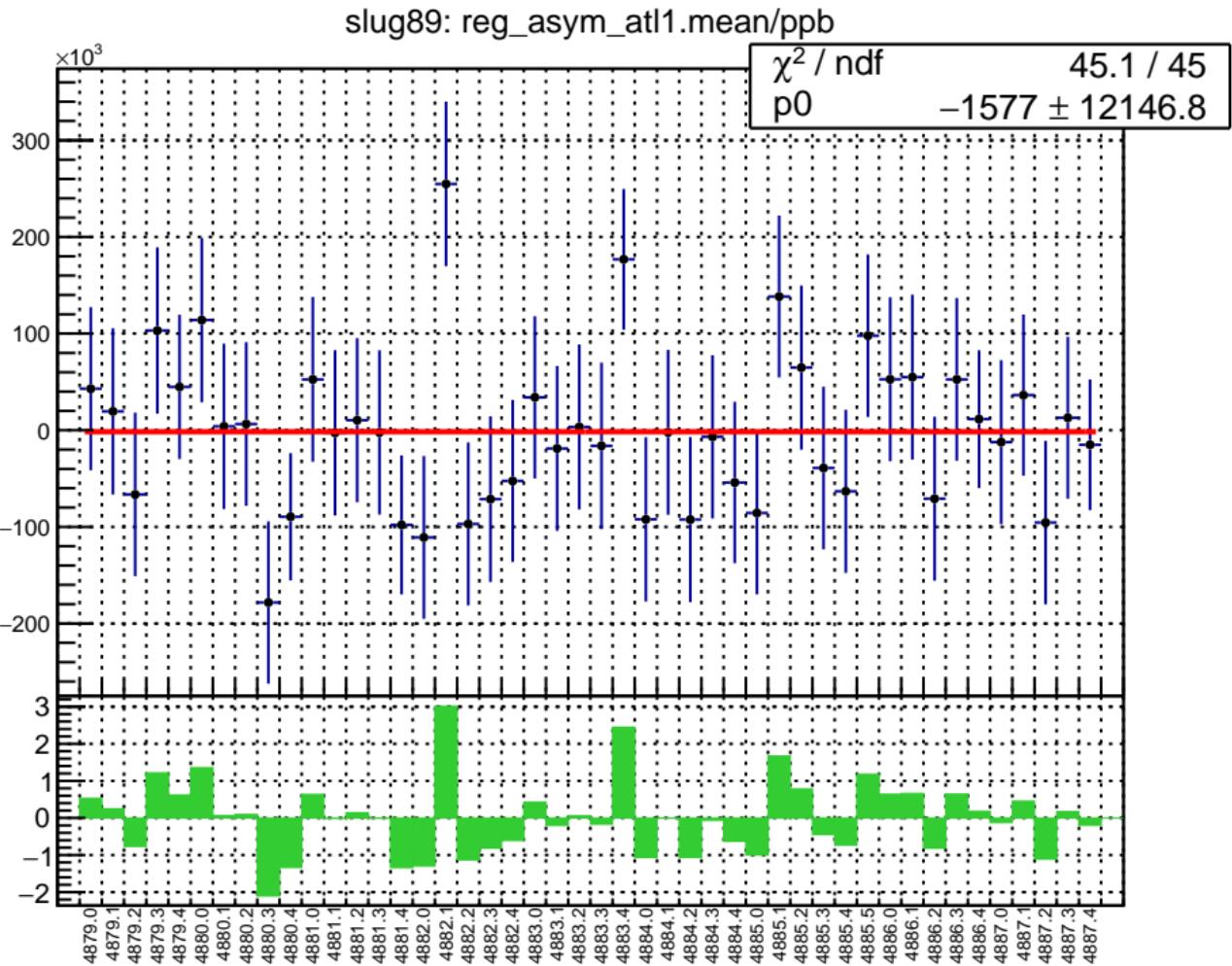
slug89: asym\_ds\_dd.mean/ppb-reg\_asym\_ds\_dd.mean/ppb

slug89: 1D Corr asym\_ds\_dd.mean/ppb-reg\_asym\_ds\_dd.mean/ppb



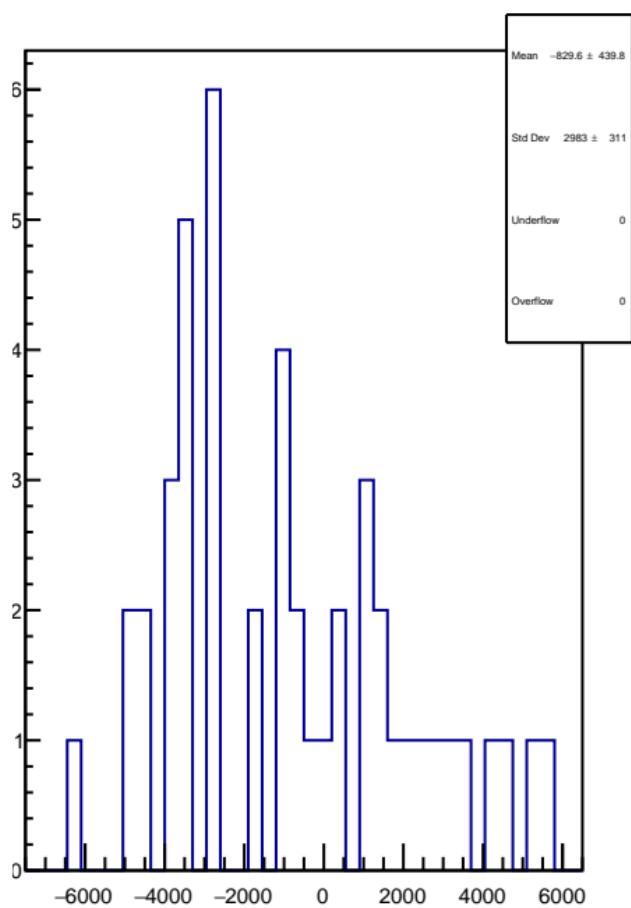
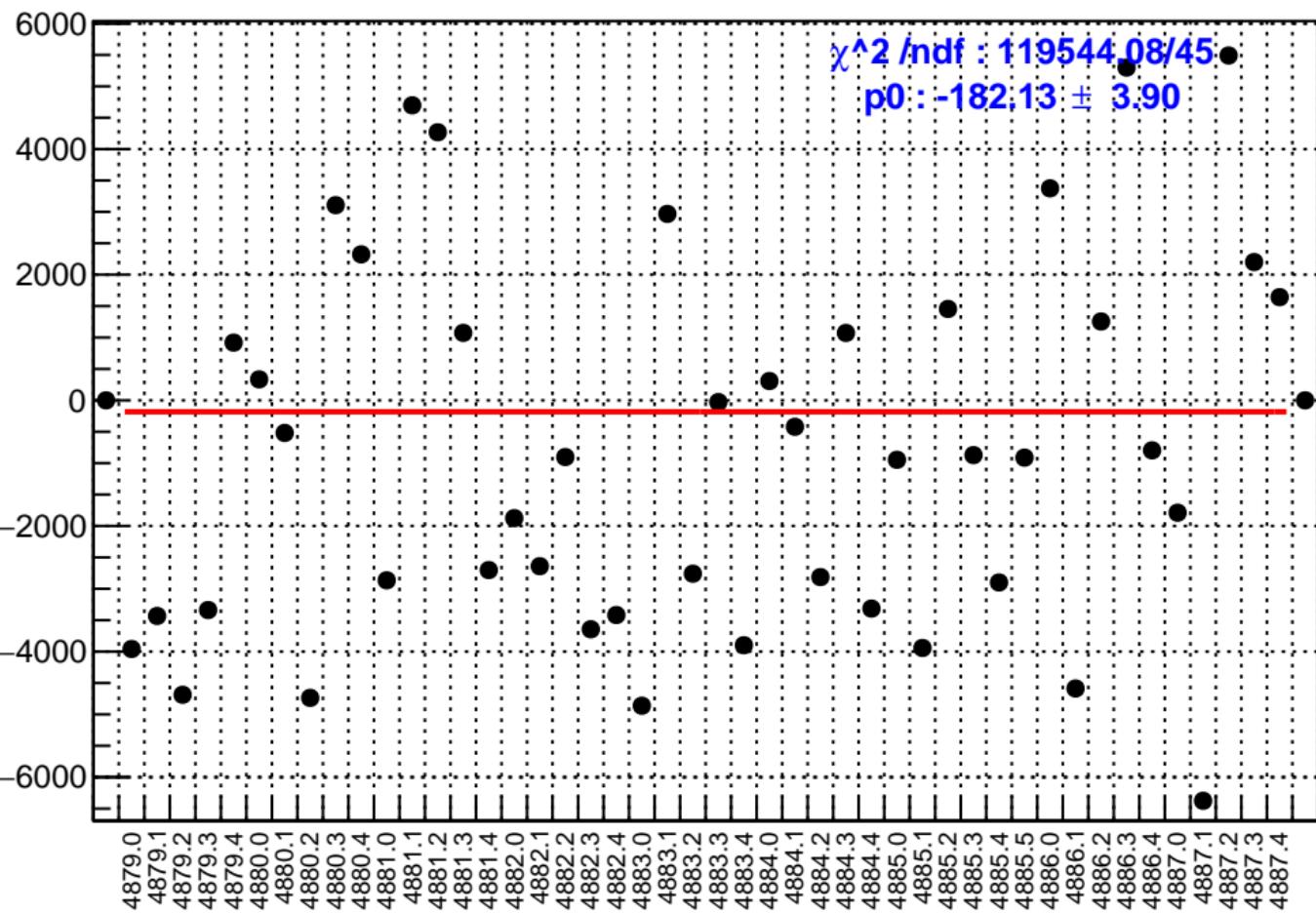
# slug89: reg\_asym\_ds\_dd.rms/ppm



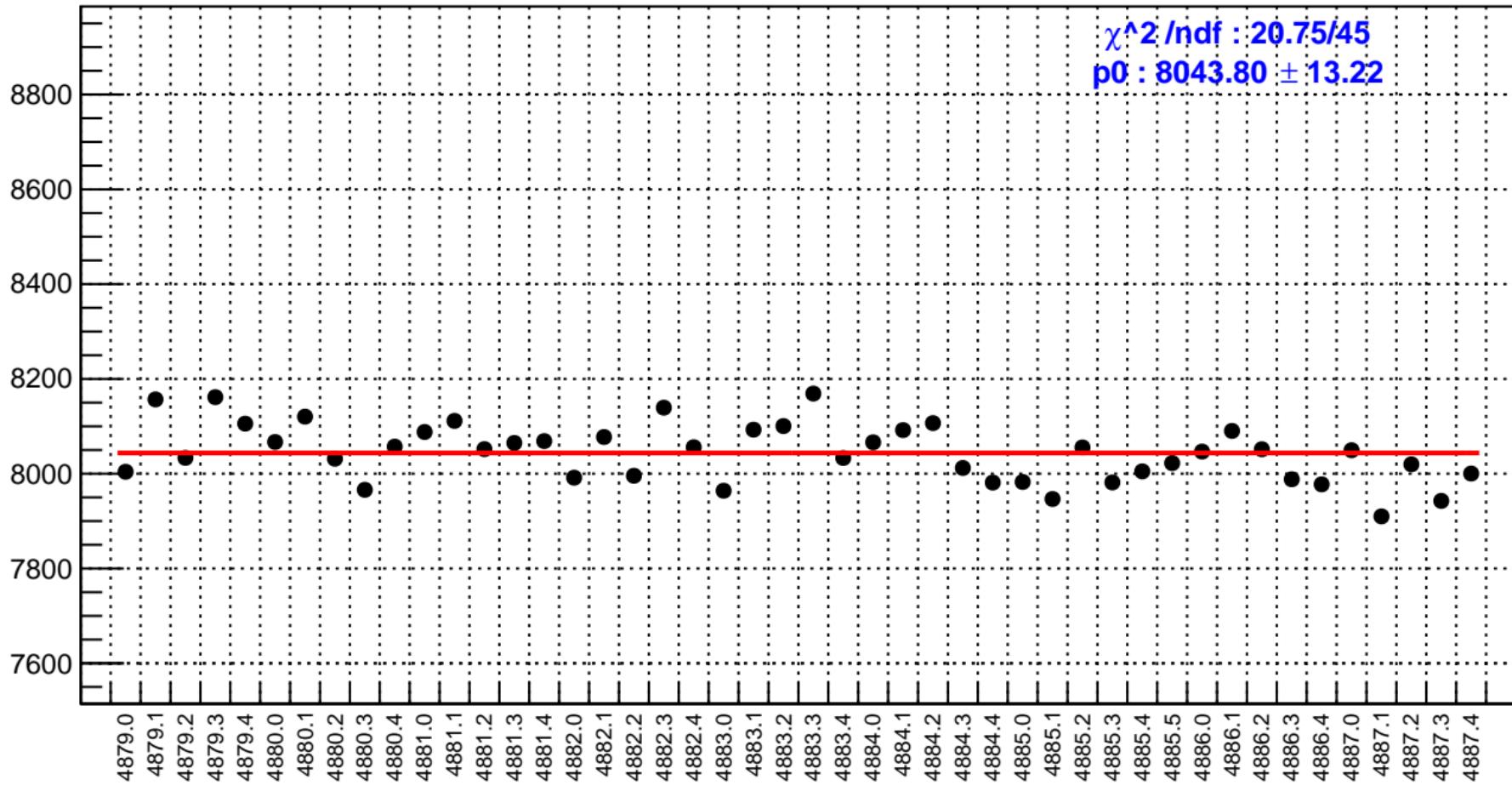


slug89: asym\_atl1.mean/ppb-reg\_asym\_atl1.mean/ppb

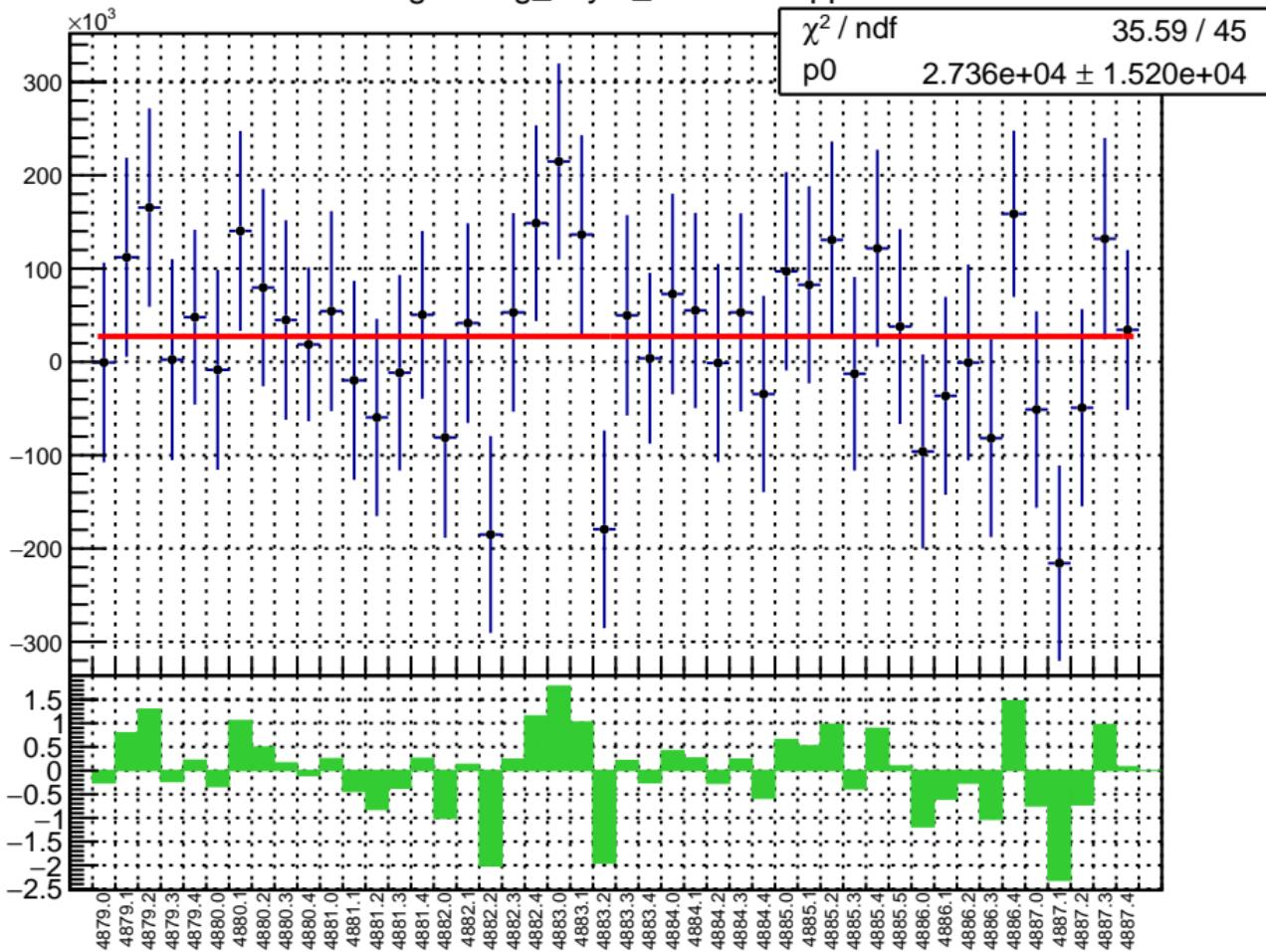
slug89: 1D Corr asym\_atl1.mean/ppb-reg\_asym\_atl1.mean/ppb



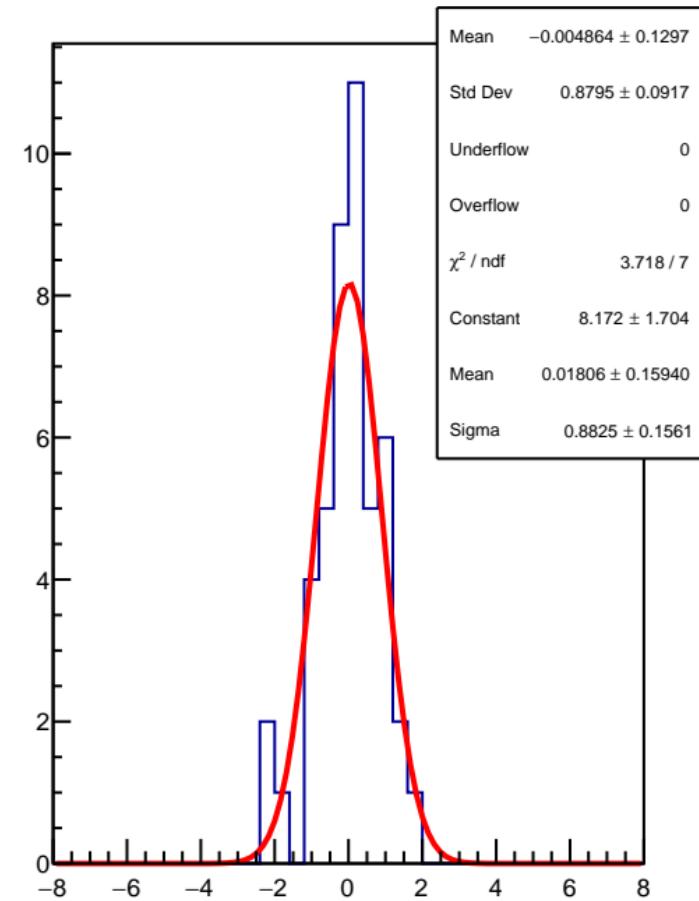
# slug89: reg\_asym\_atl1.rms/ppm



# slug89: reg\_asym\_atl2.mean/ppb

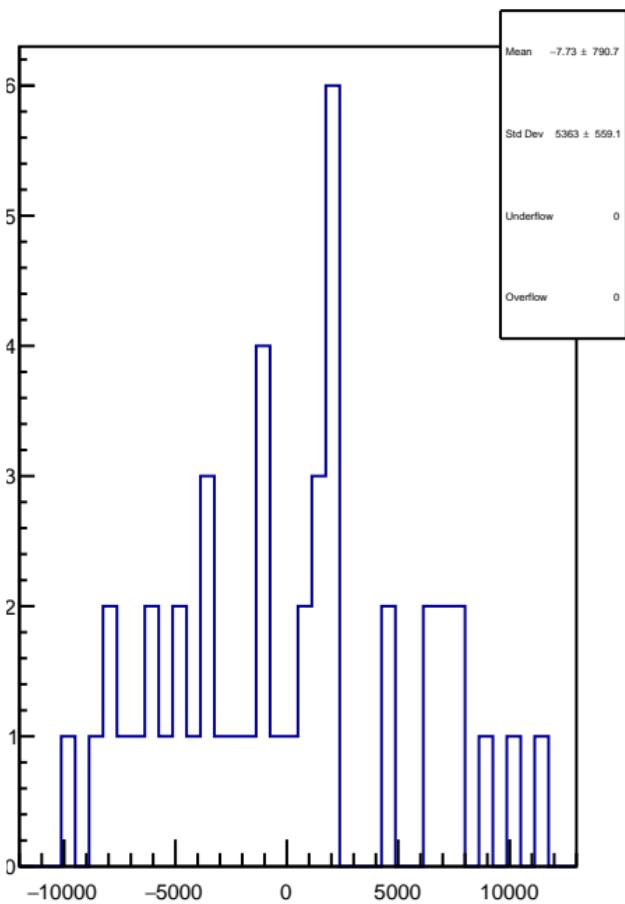
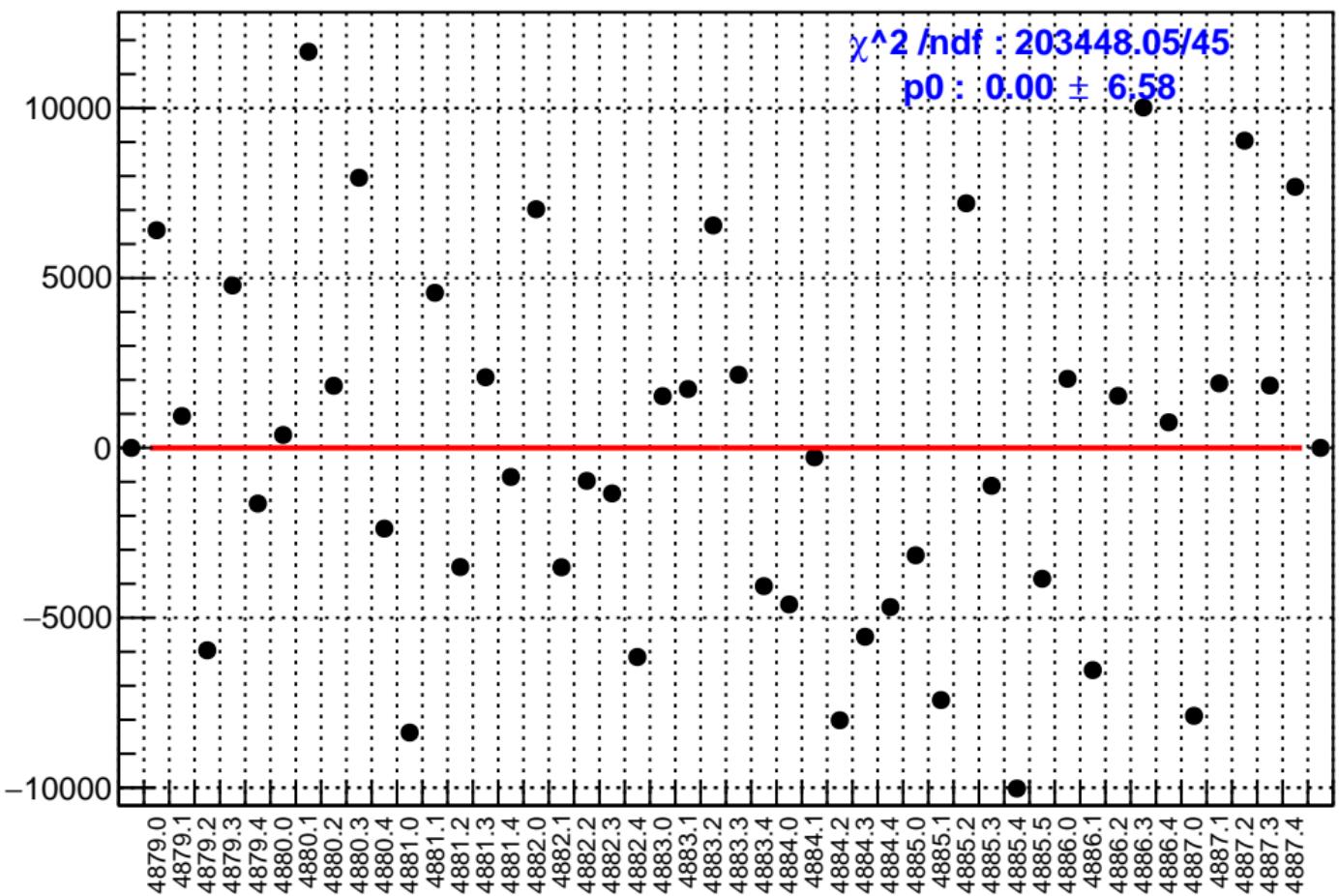


# 1D pull distribution

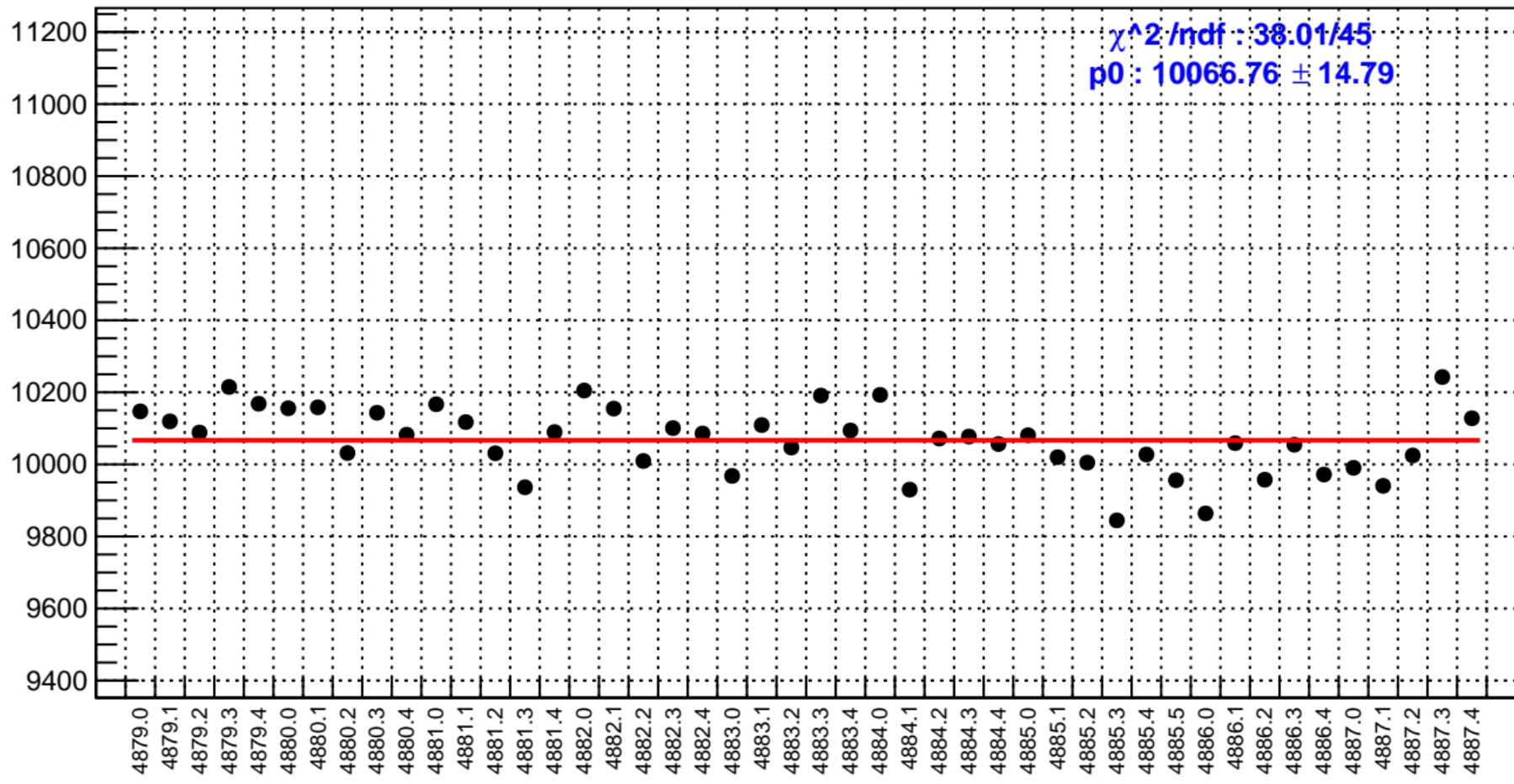


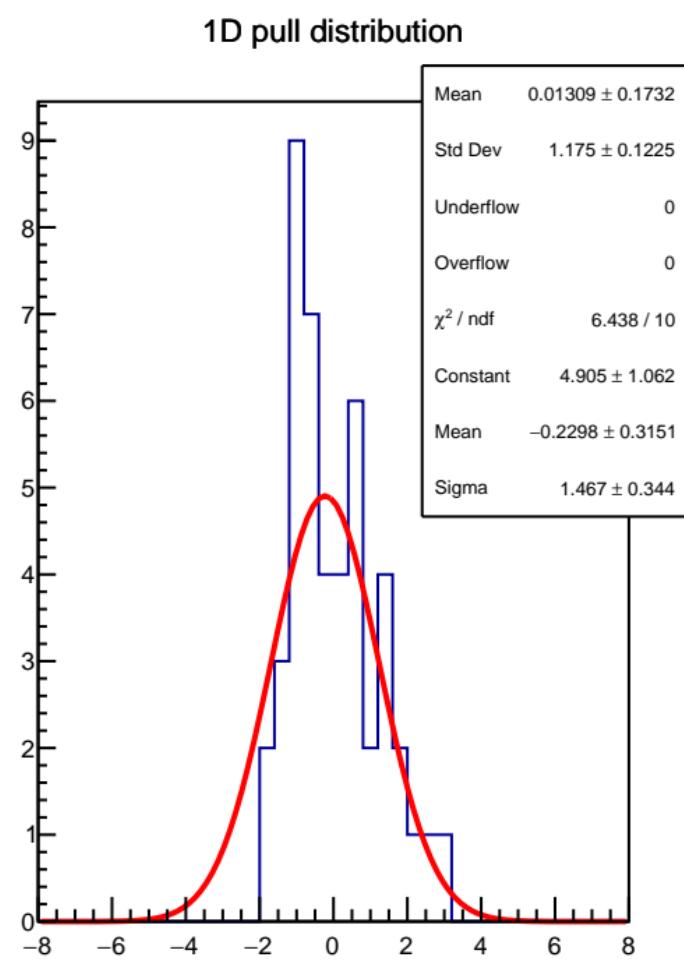
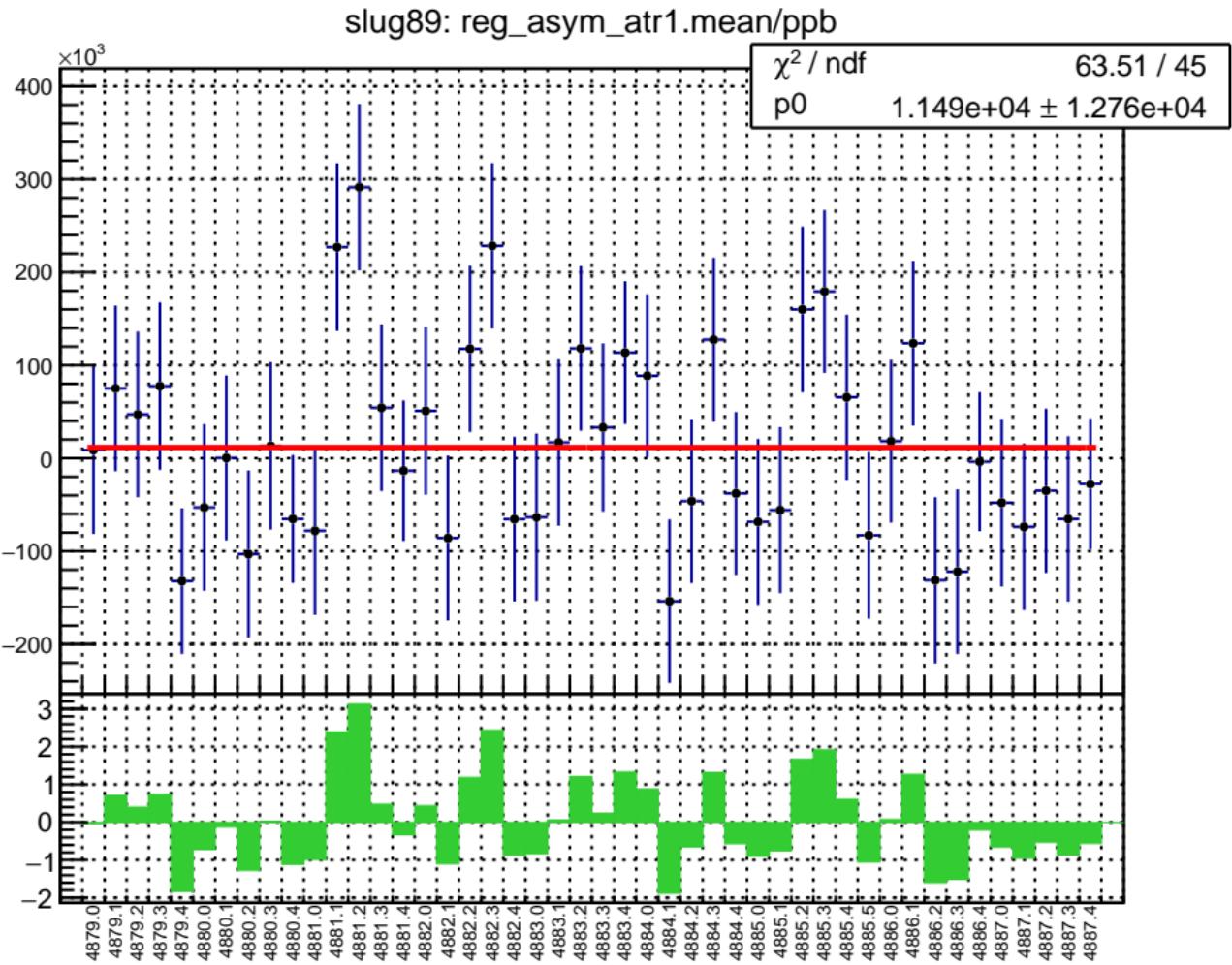
slug89: asym\_atl2.mean/ppb-reg\_asym\_atl2.mean/ppb

slug89: 1D Corr asym\_atl2.mean/ppb-reg\_asym\_atl2.mean/ppb



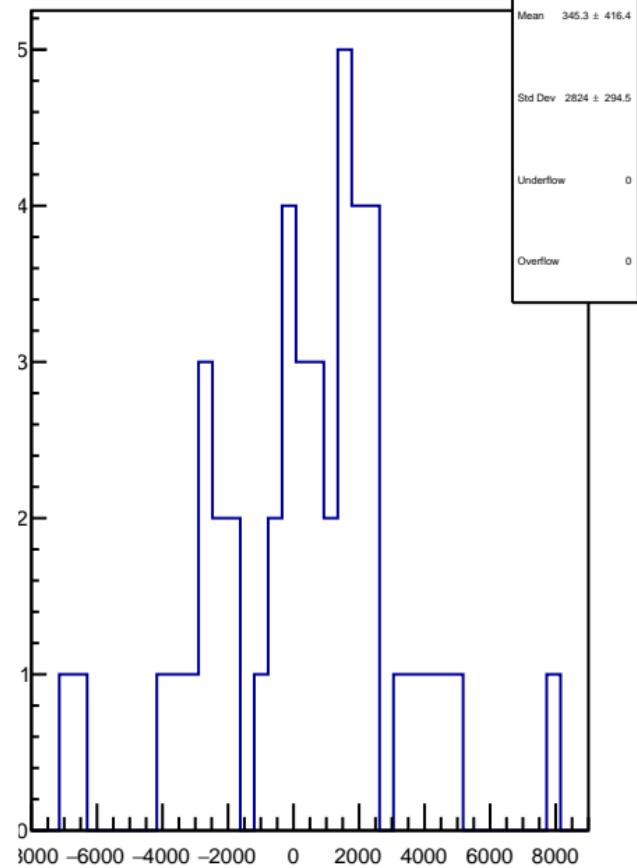
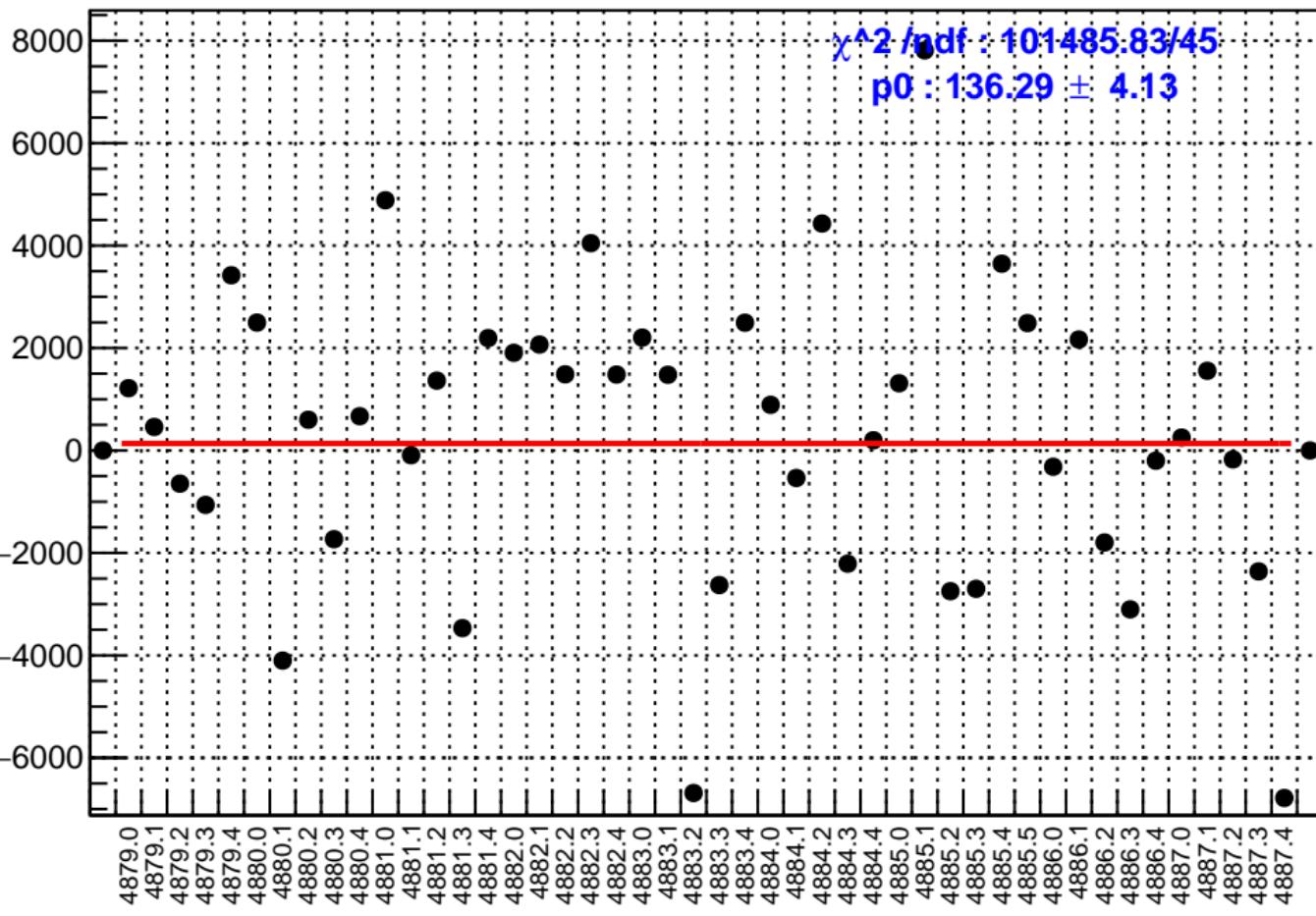
# slug89: reg\_asym\_atl2.rms/ppm



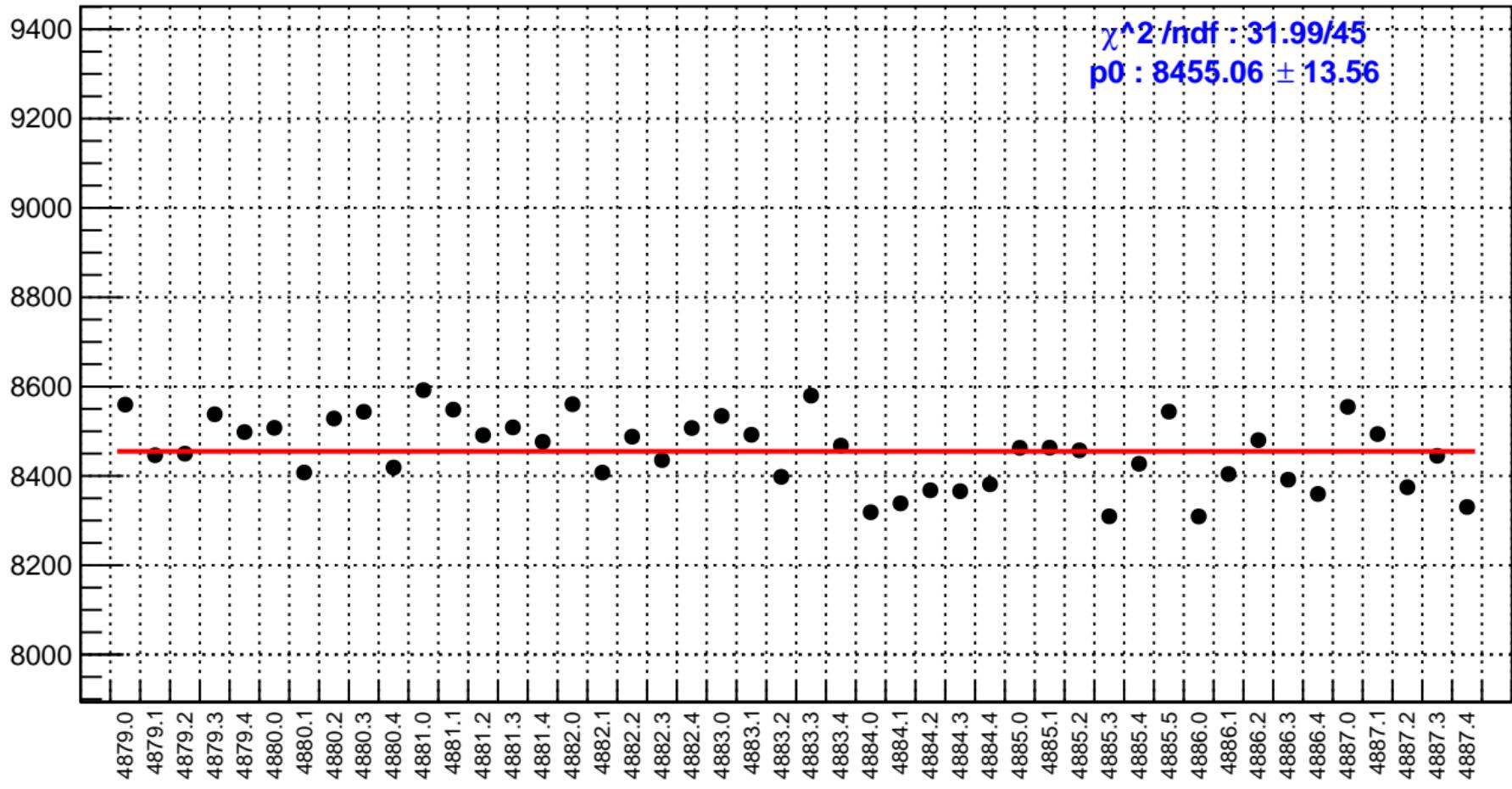


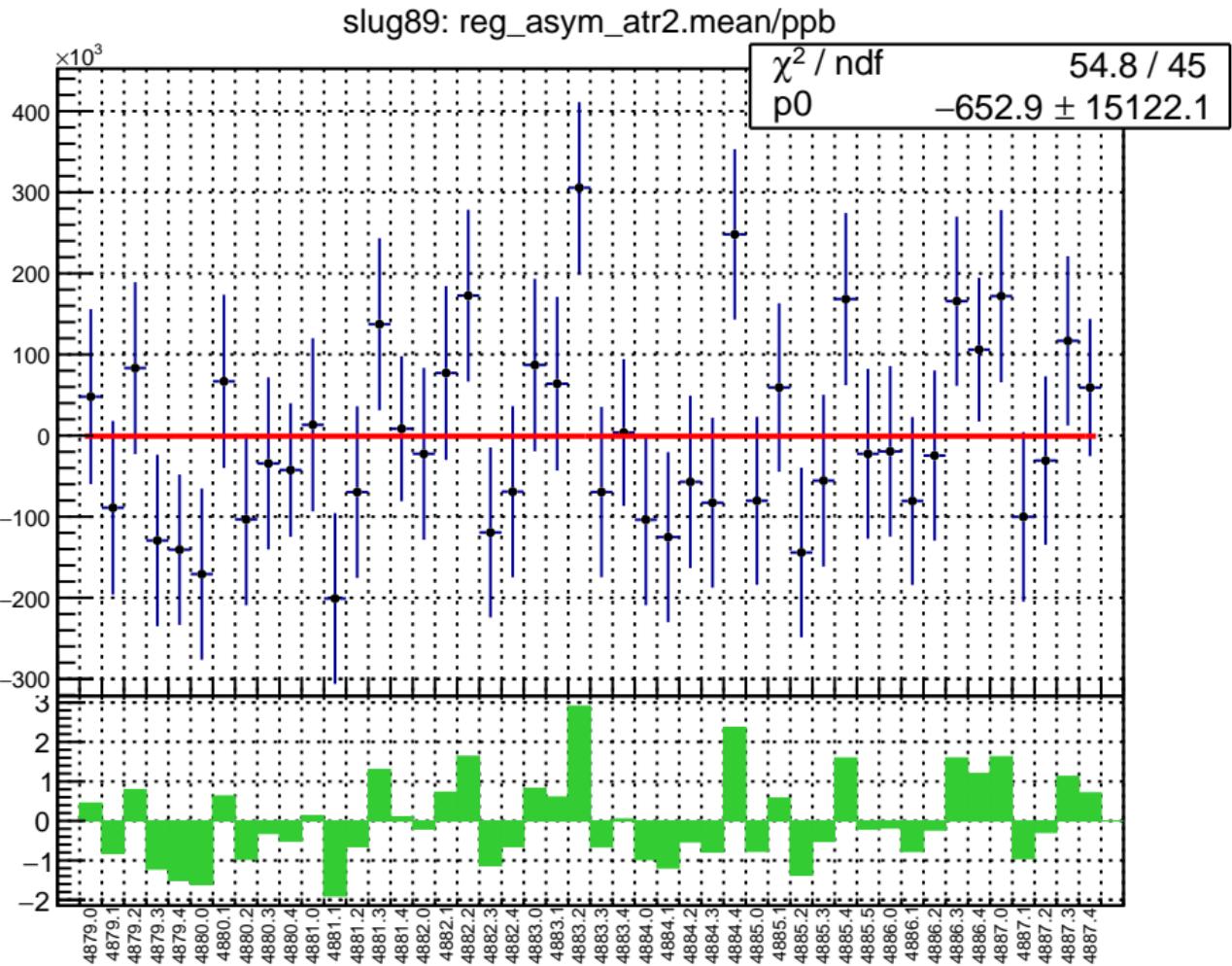
slug89: asym\_atr1.mean/ppb-reg\_asym\_atr1.mean/ppb

slug89: 1D Corr asym\_atr1.mean/ppb-reg\_asym\_atr1.mean/ppb

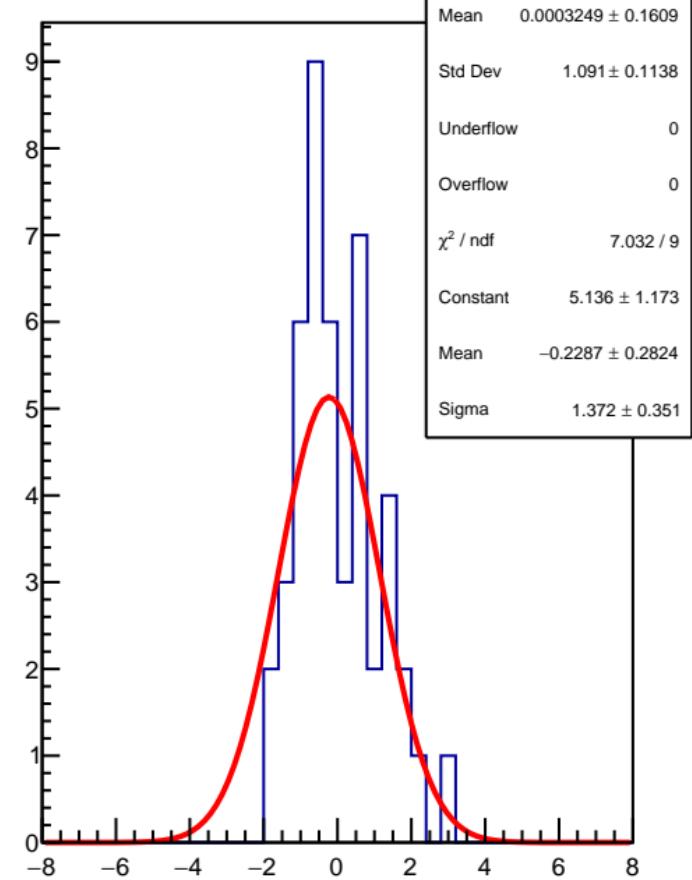


# slug89: reg\_asym\_atr1.rms/ppm



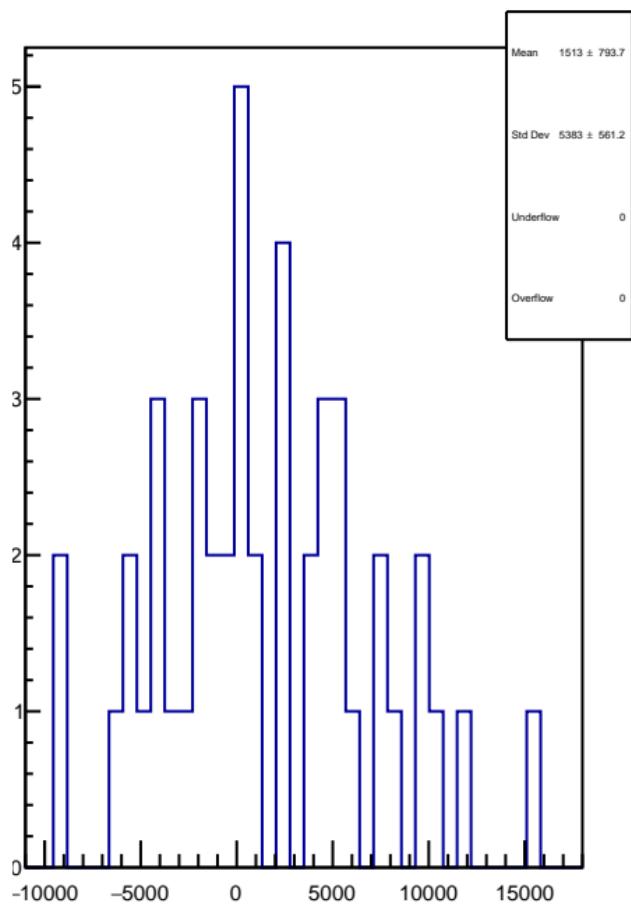
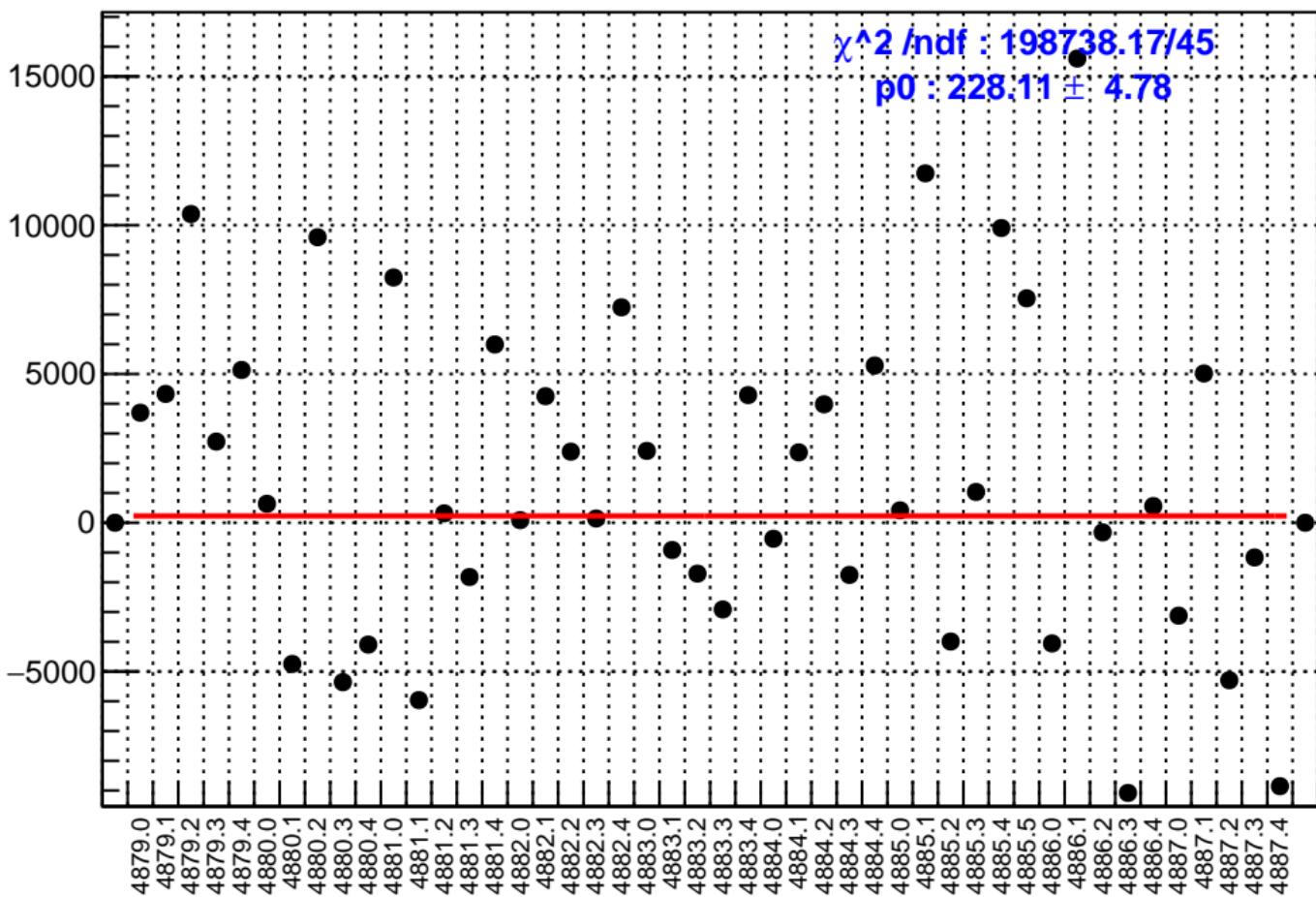


1D pull distribution

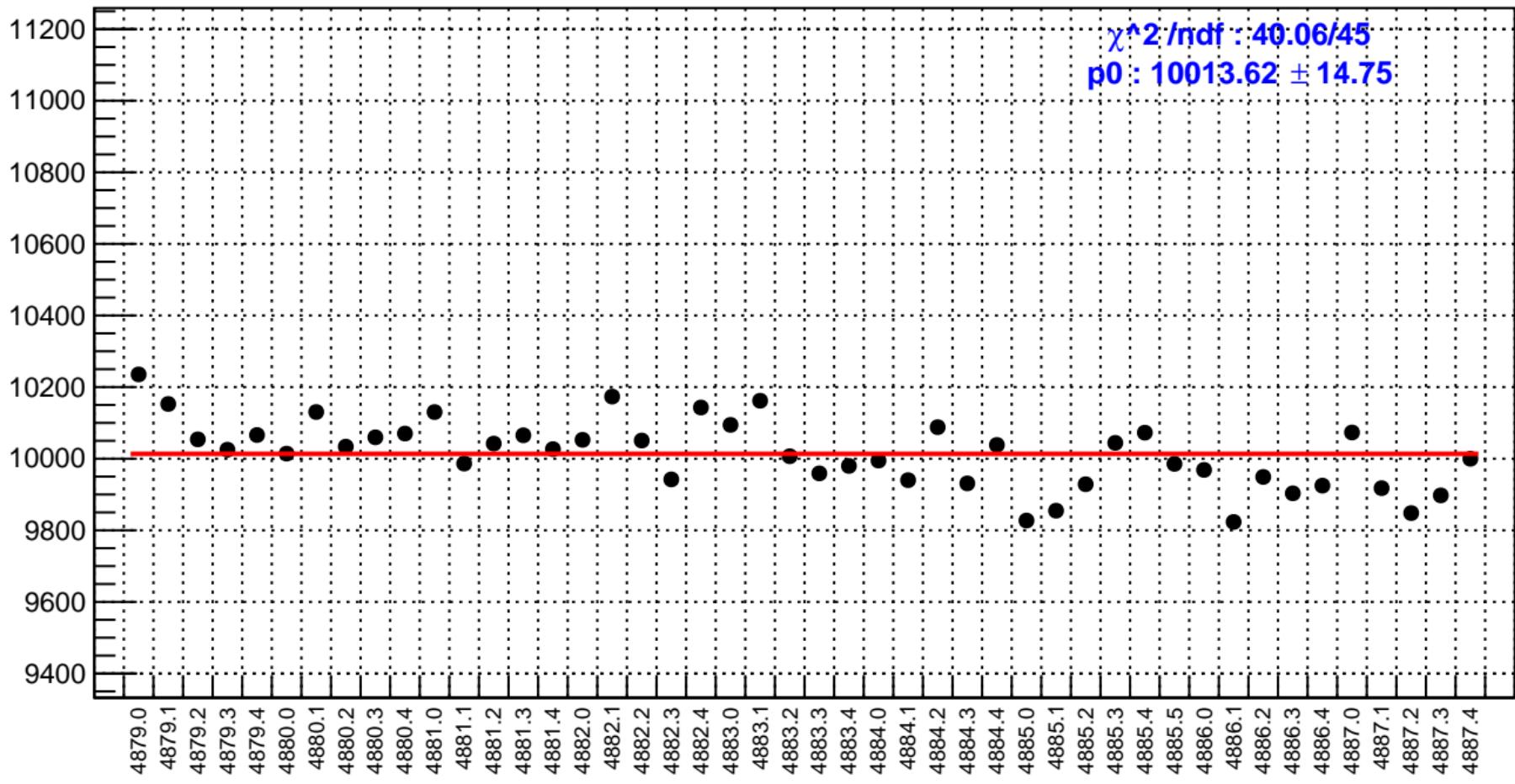


slug89: asym\_atr2.mean/ppb-reg\_asym\_atr2.mean/ppb

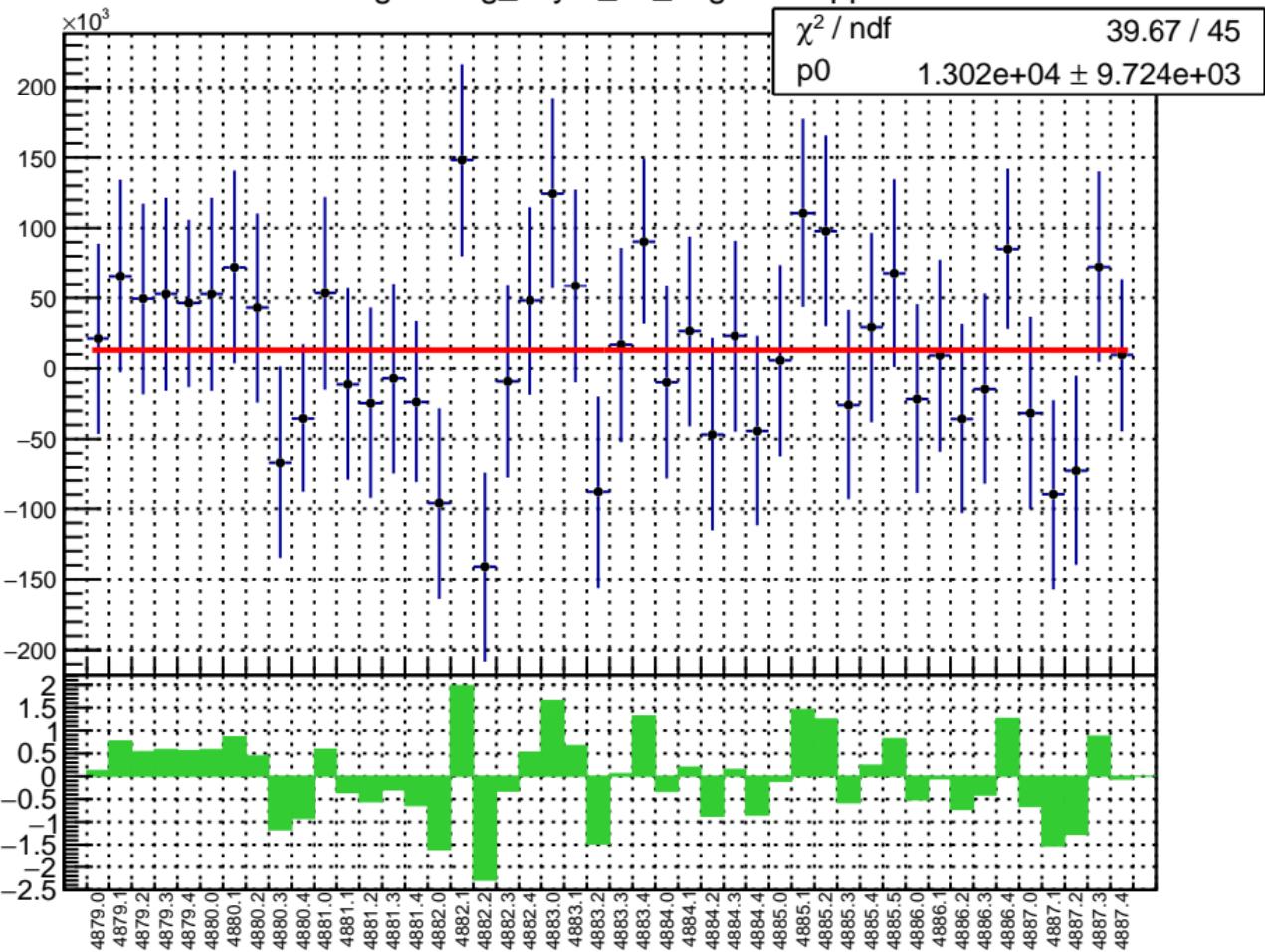
slug89: 1D Corr asym\_atr2.mean/ppb-reg\_asym\_atr2.mean/ppb



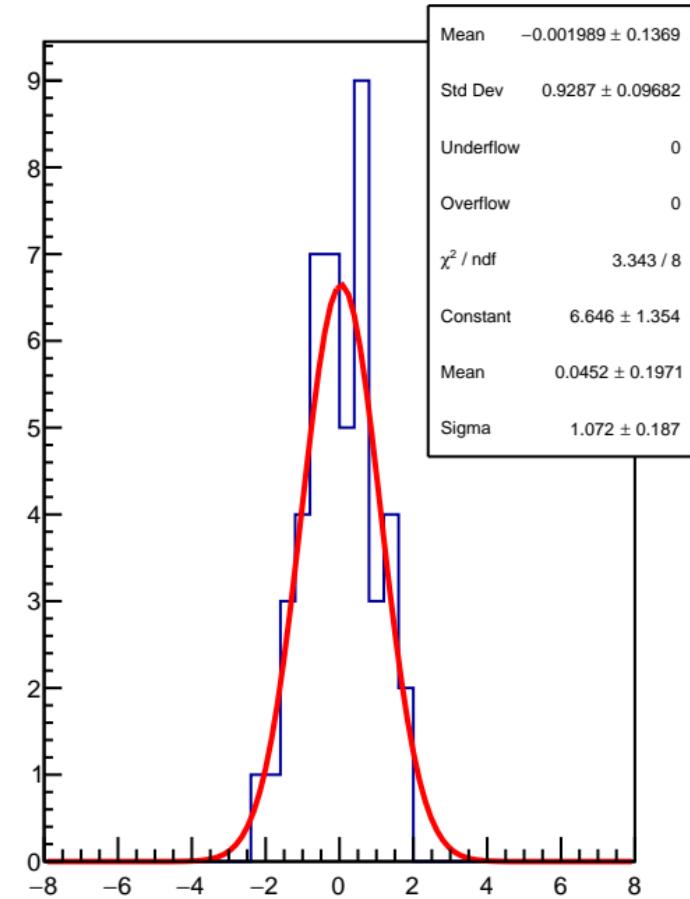
# slug89: reg\_asym\_atr2.rms/ppm



## slug89: reg\_asym\_atl\_avg.mean/ppb

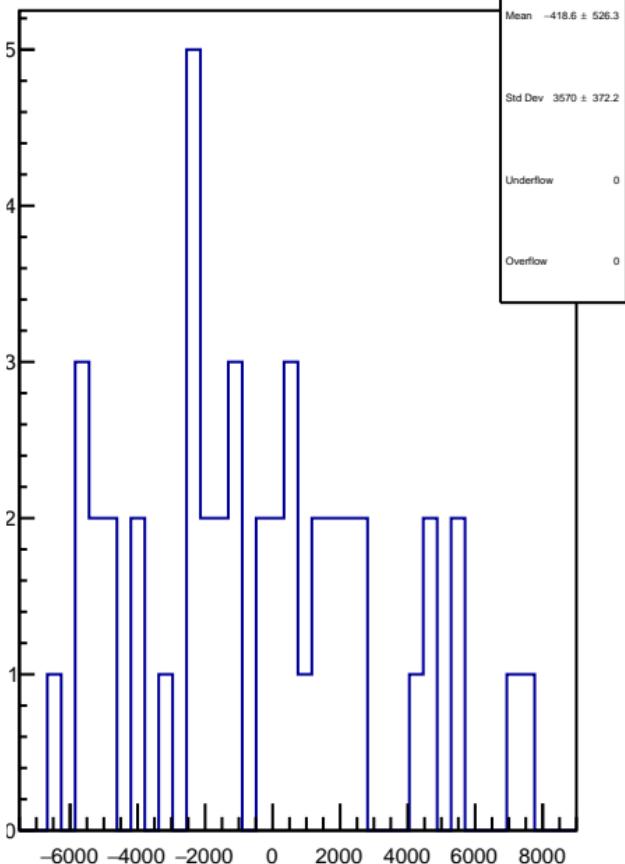
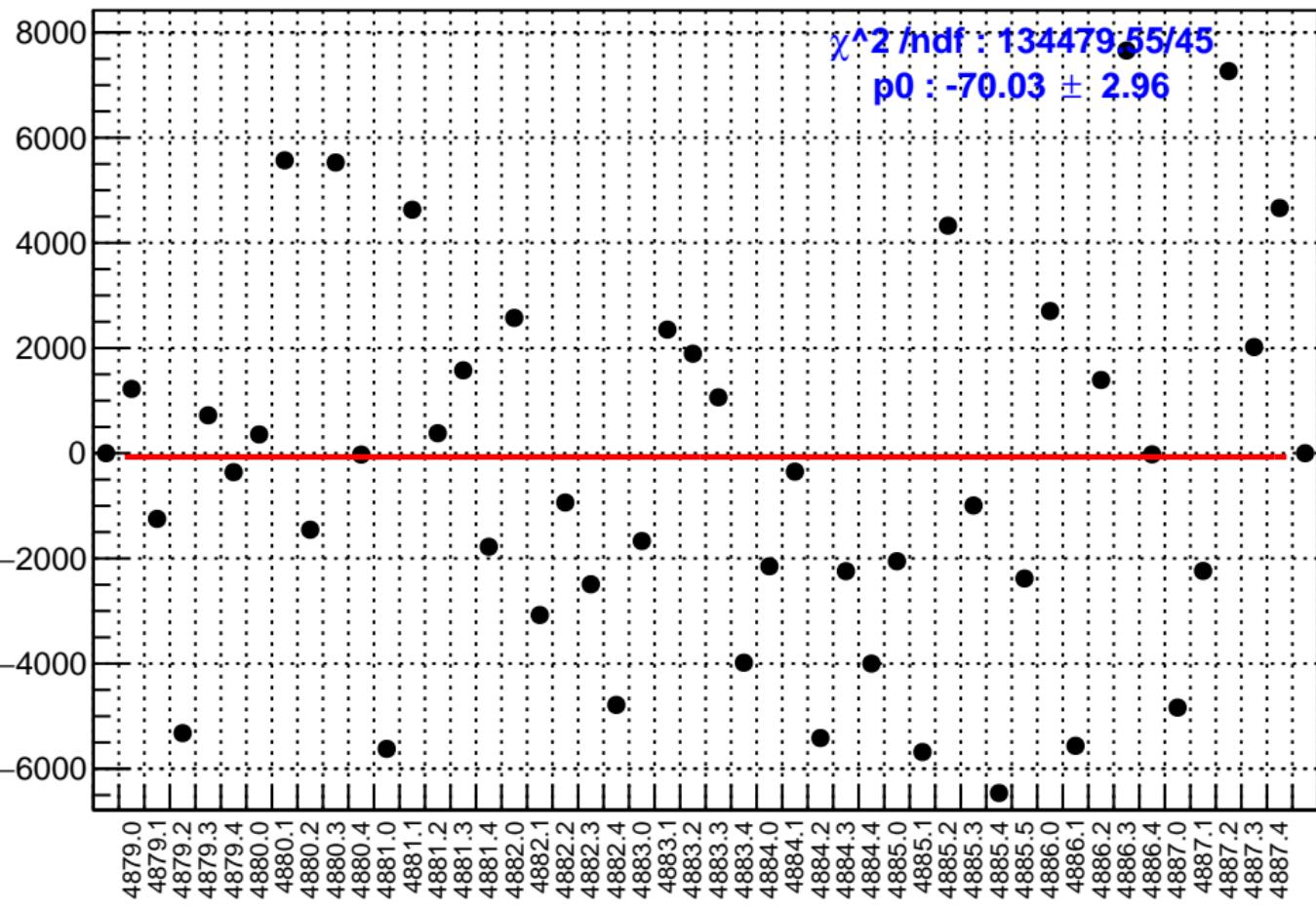


## 1D pull distribution

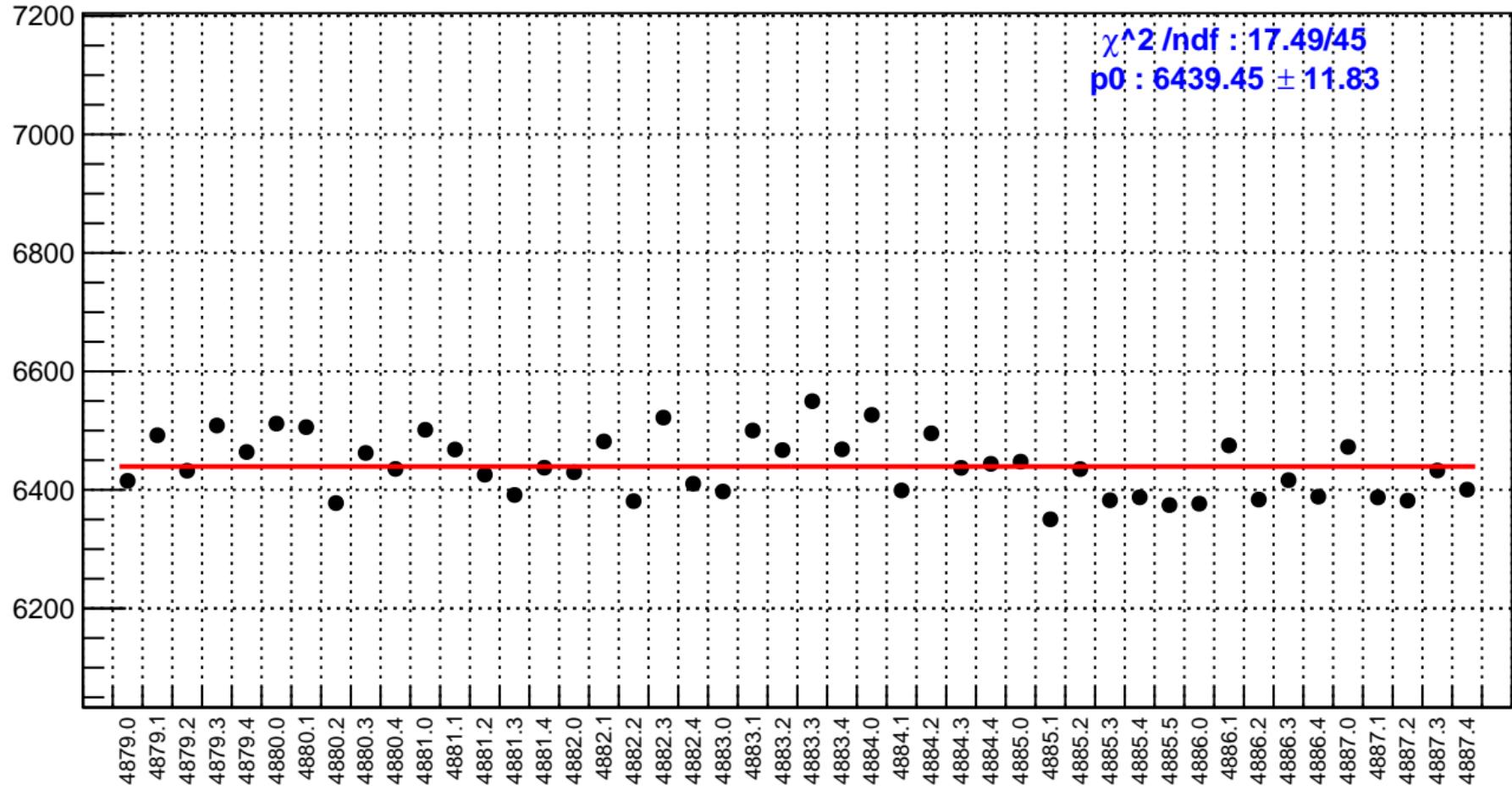


slug89: asym\_atl\_avg.mean/ppb-reg\_asym\_atl\_avg.mean/ppb

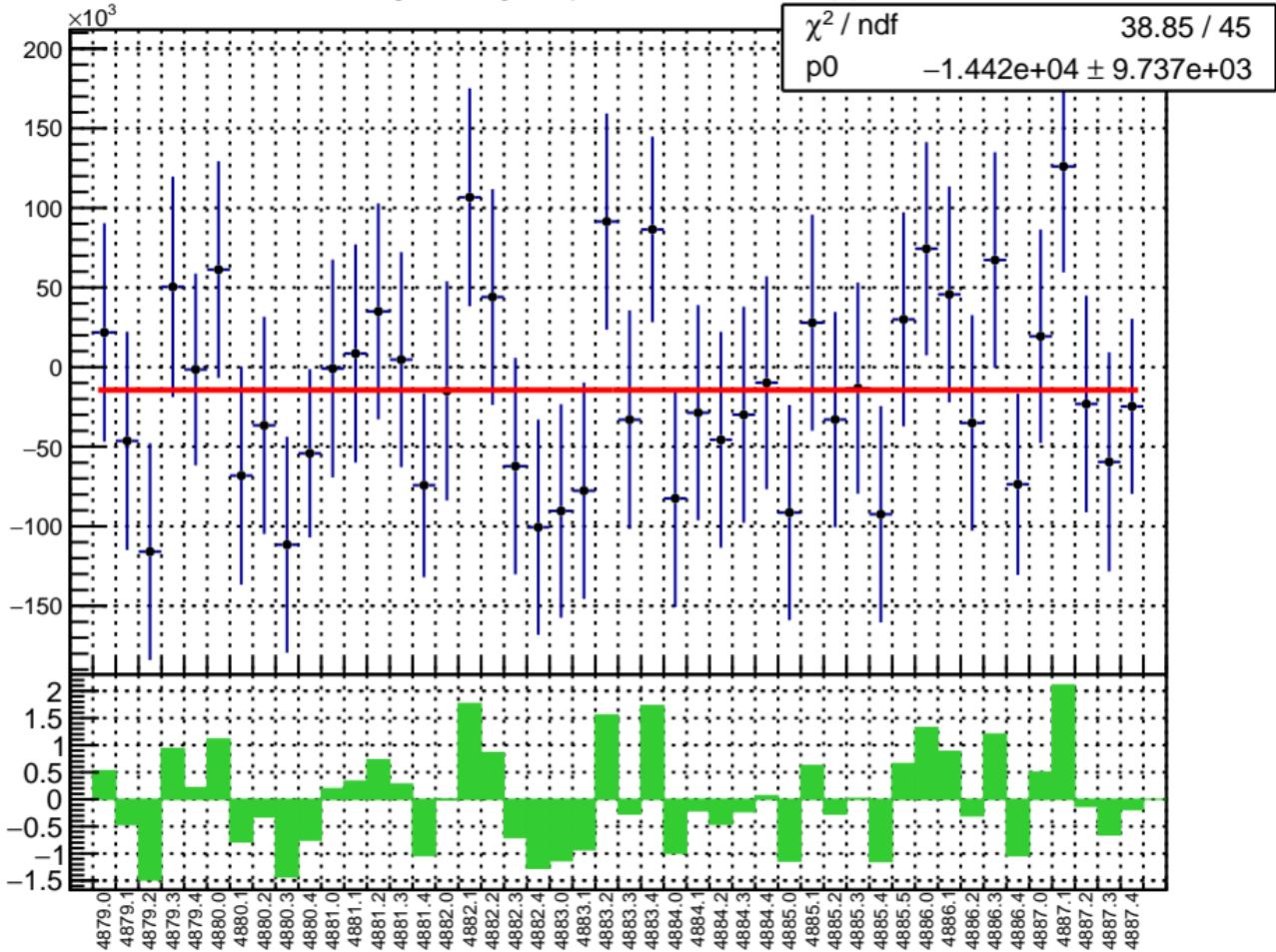
slug89: 1D Corr asym\_atl\_avg.mean/ppb-reg\_asym\_atl\_avg.mean/ppb



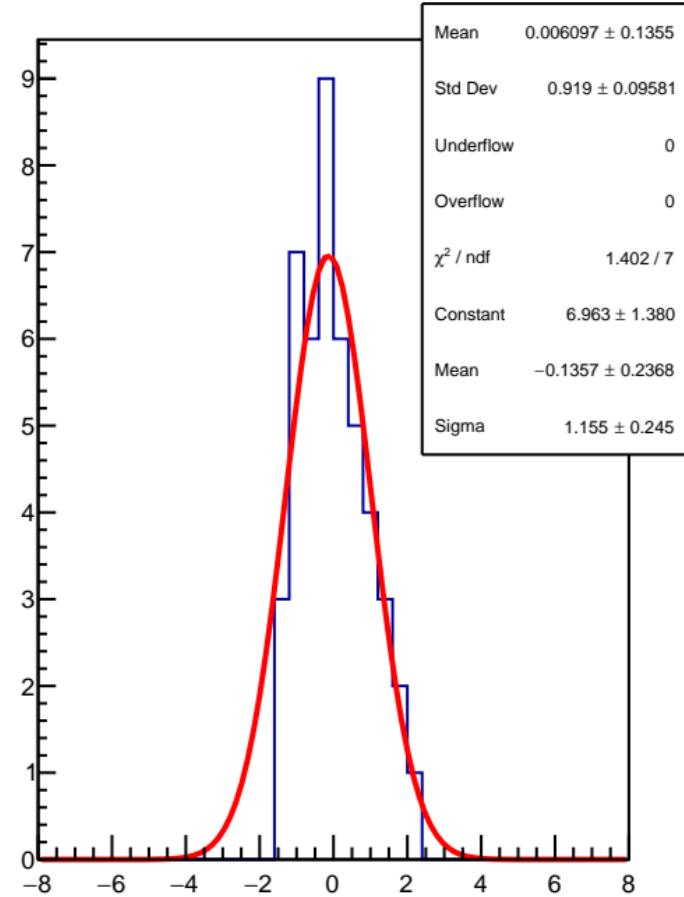
# slug89: reg\_asym\_atl\_avg.rms/ppm



# slug89: reg\_asym\_atl\_dd.mean/ppb

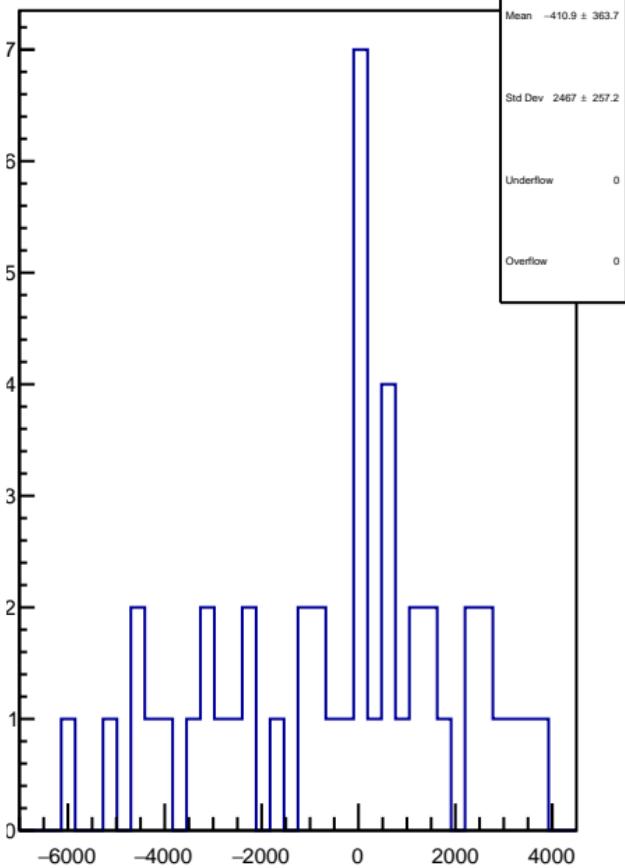
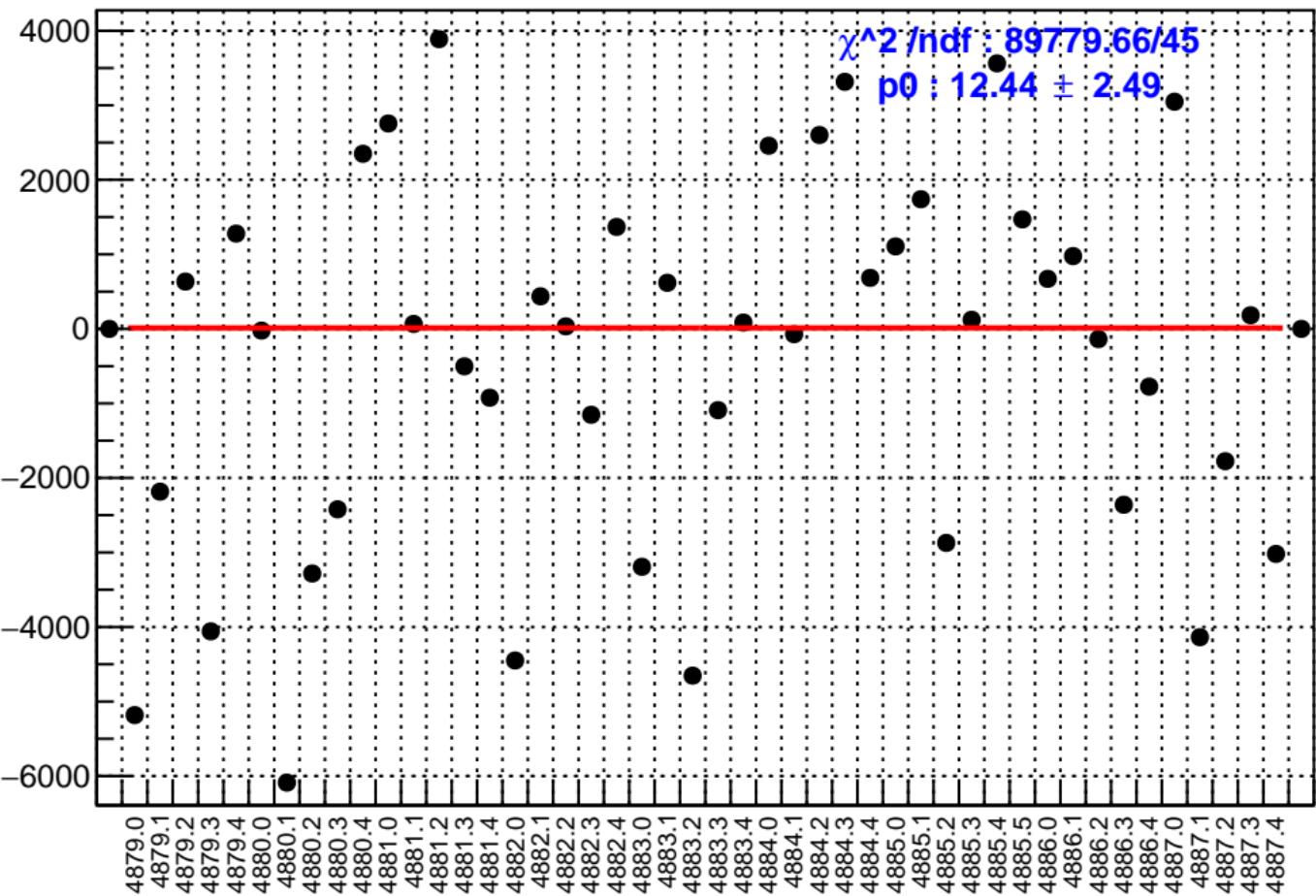


# 1D pull distribution

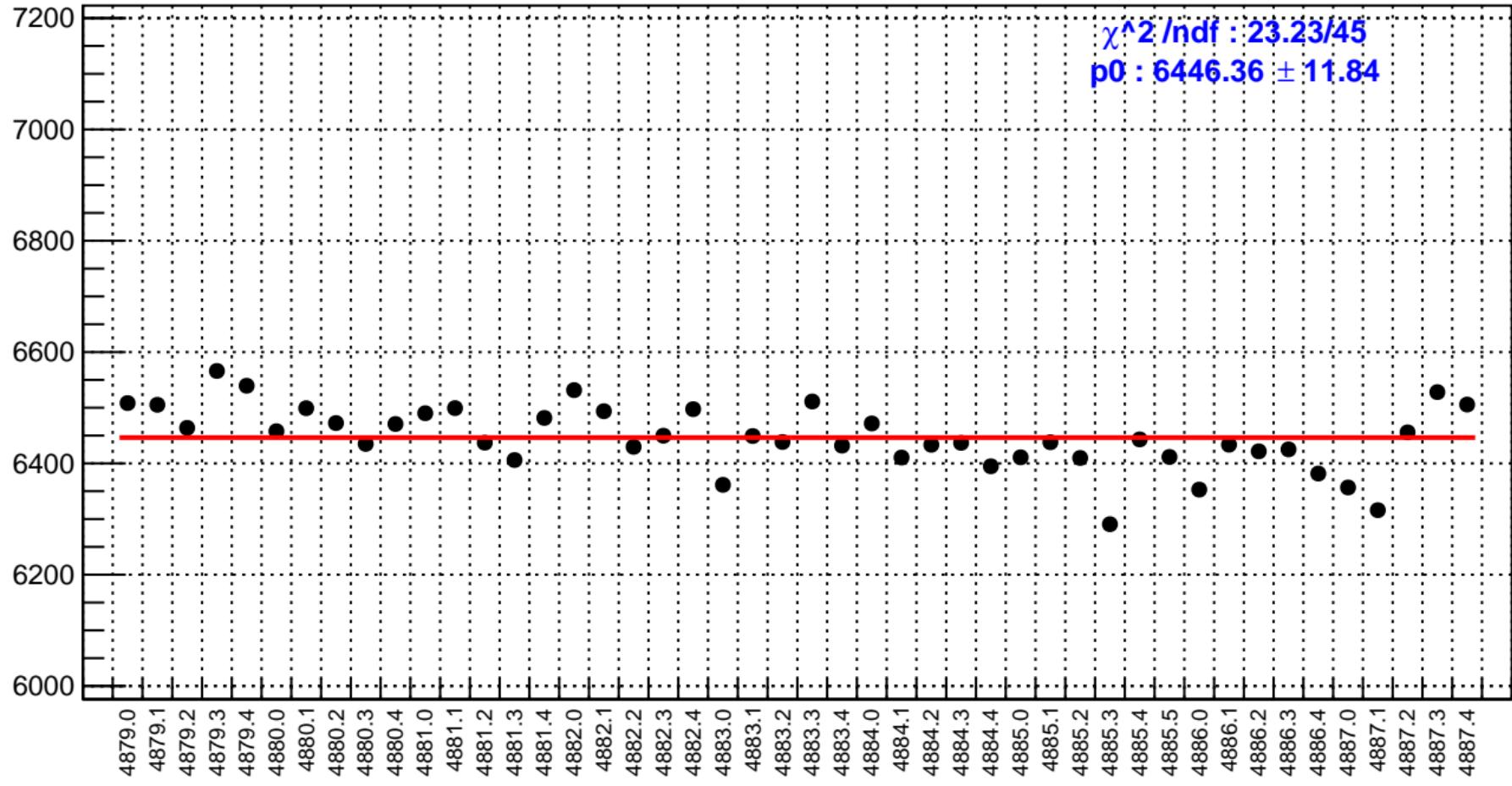


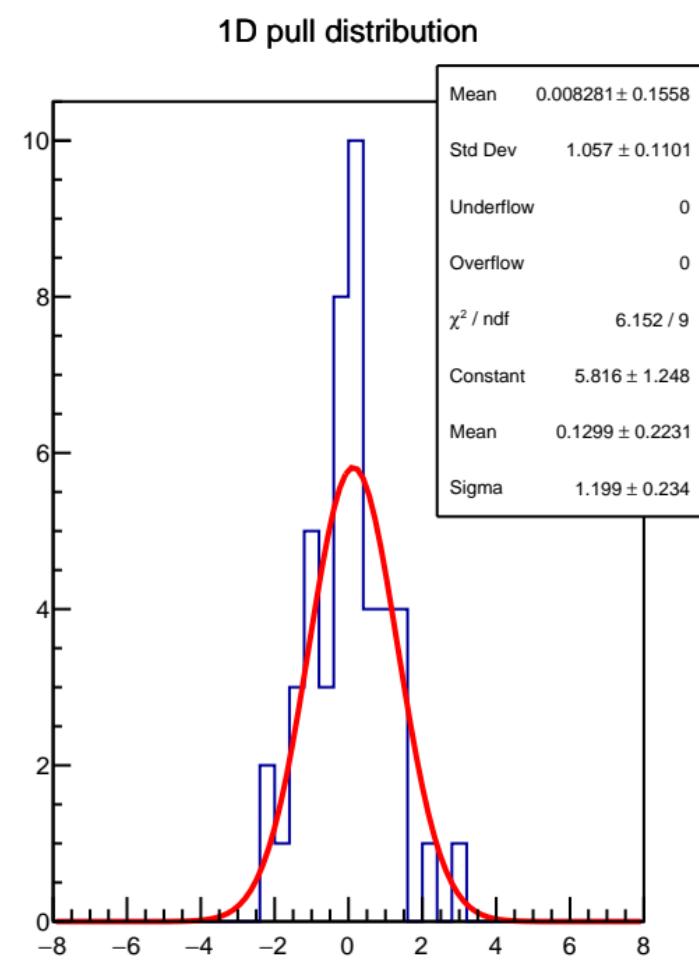
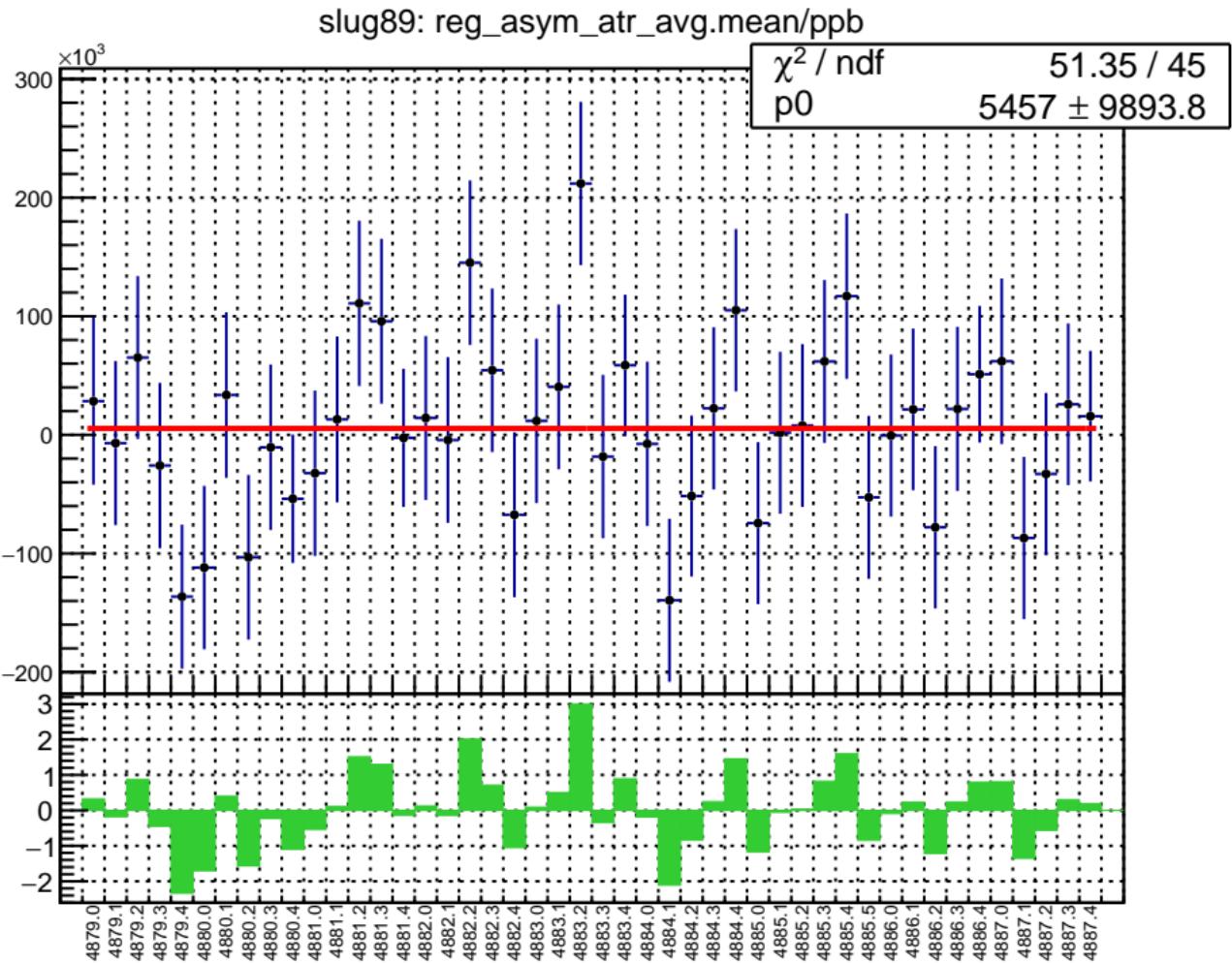
slug89: asym\_atl\_dd.mean/ppb-reg\_asym\_atl\_dd.mean/ppb

slug89: 1D Corr asym\_atl\_dd.mean/ppb-reg\_asym\_atl\_dd.mean/ppb



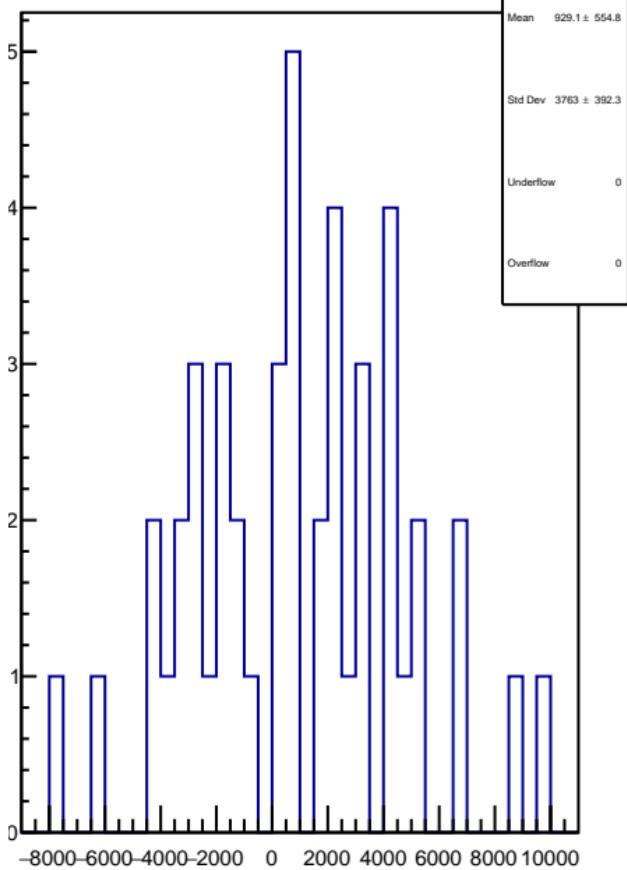
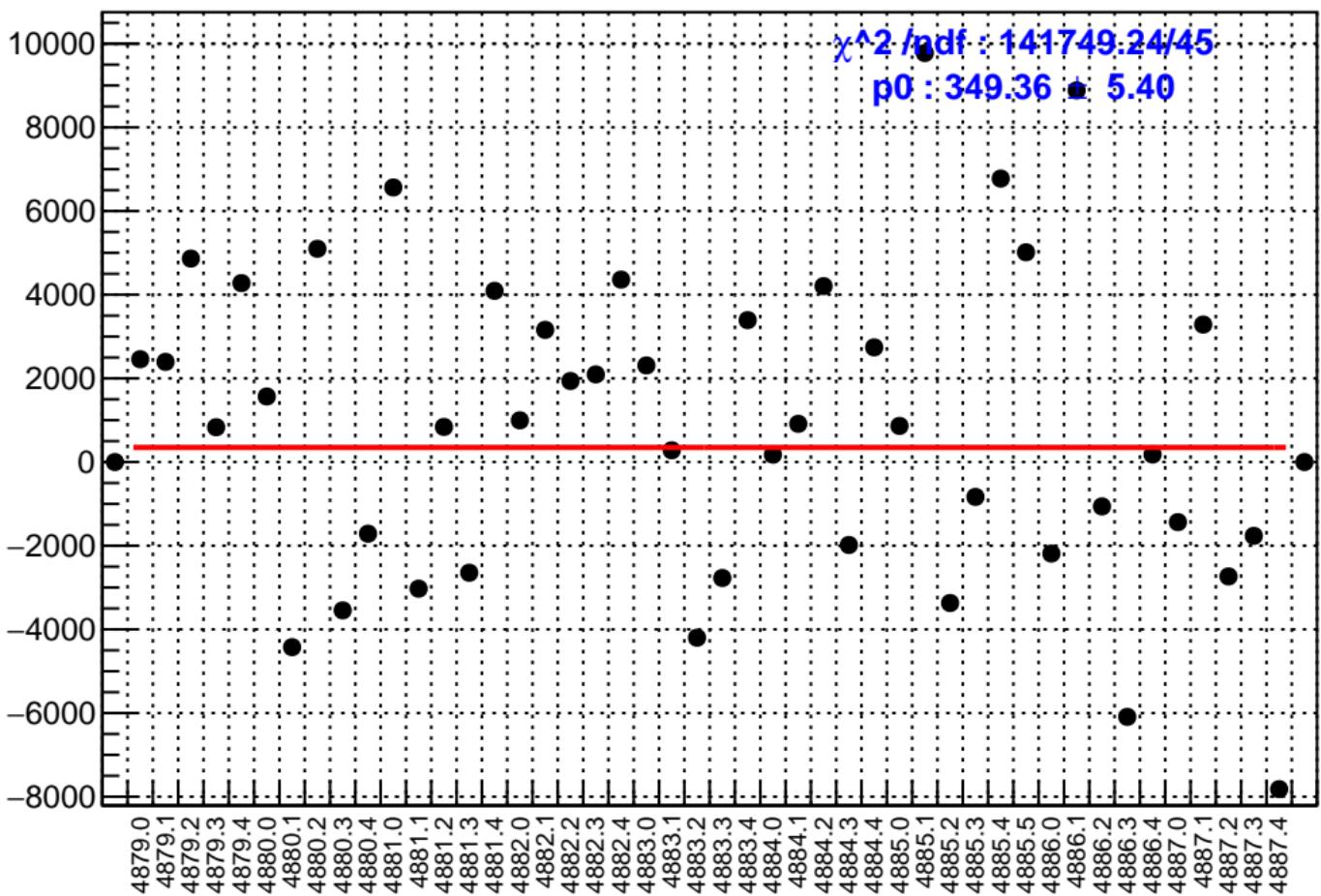
# slug89: reg\_asym\_atl\_dd.rms/ppm



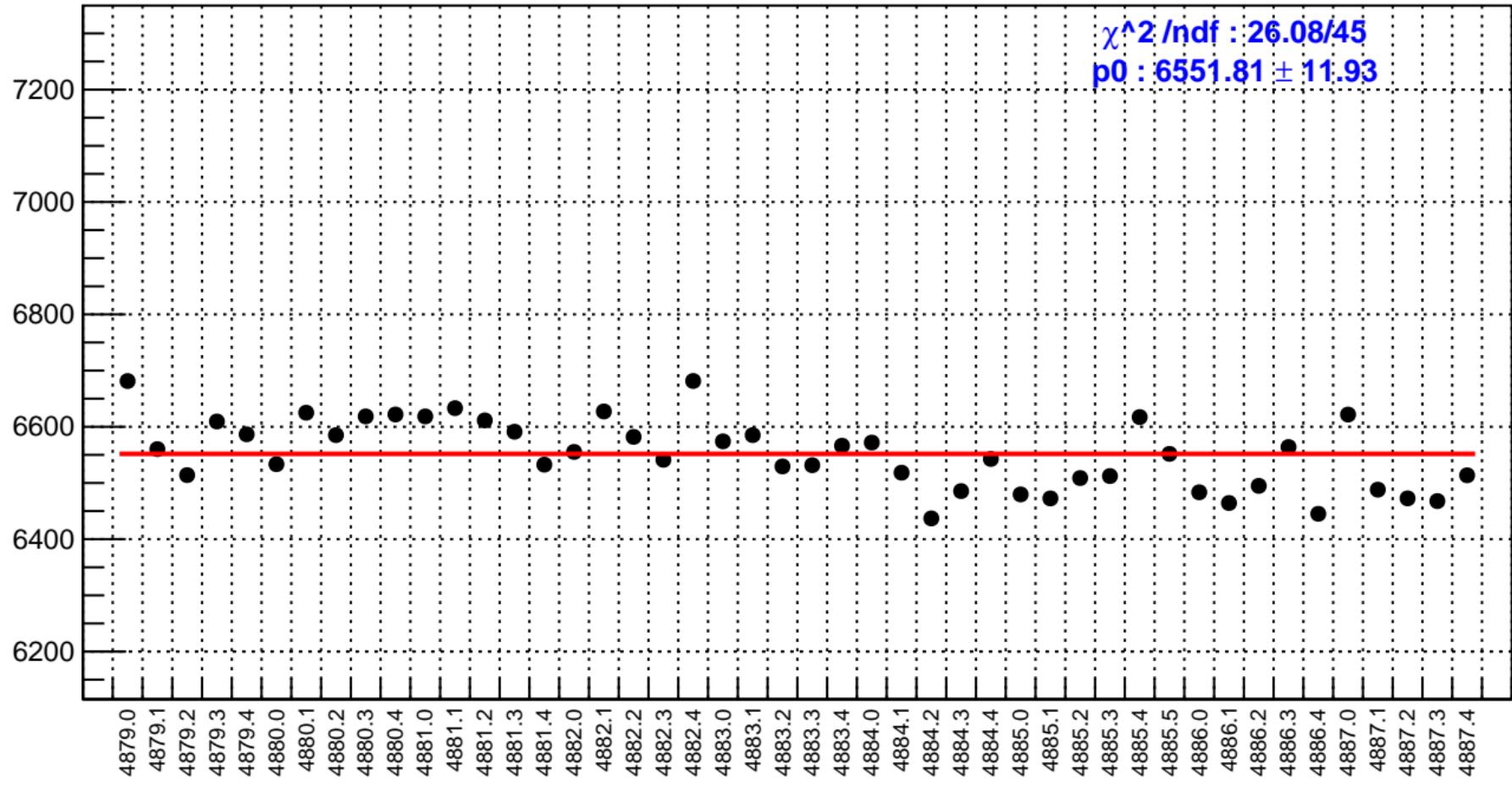


slug89: asym\_atr\_avg.mean/ppb-reg\_asym\_atr\_avg.mean/ppb

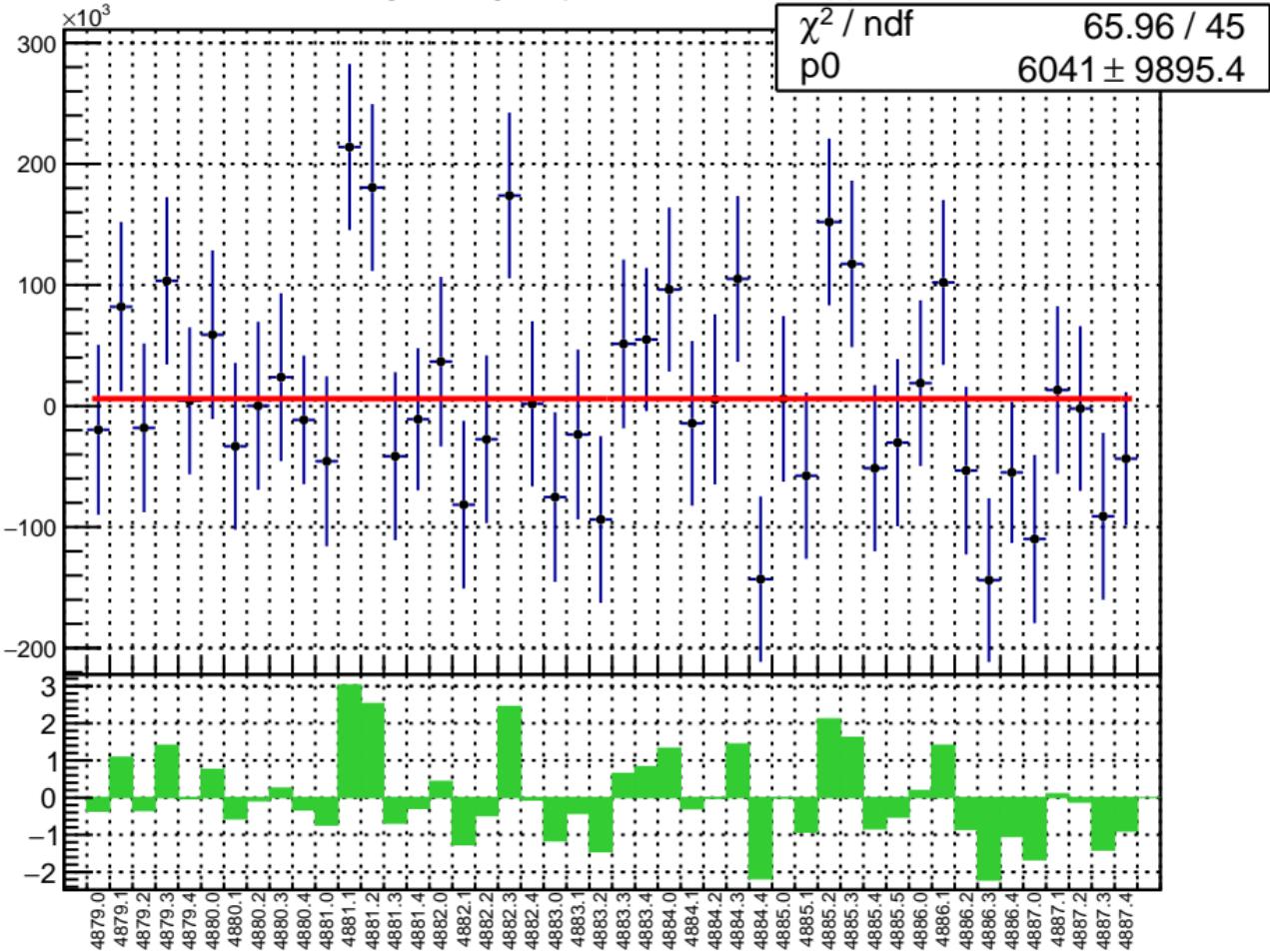
slug89: 1D Corr asym\_atr\_avg.mean/ppb-reg\_asym\_atr\_avg.mean/ppb



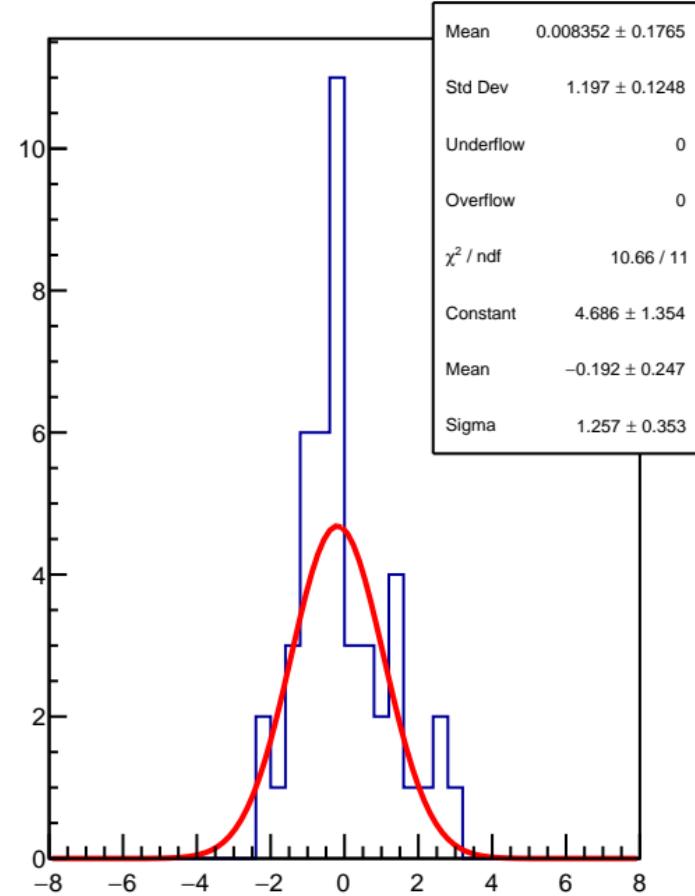
# slug89: reg\_asym\_atr\_avg.rms/ppm



## slug89: reg\_asym\_atr\_dd.mean/ppb

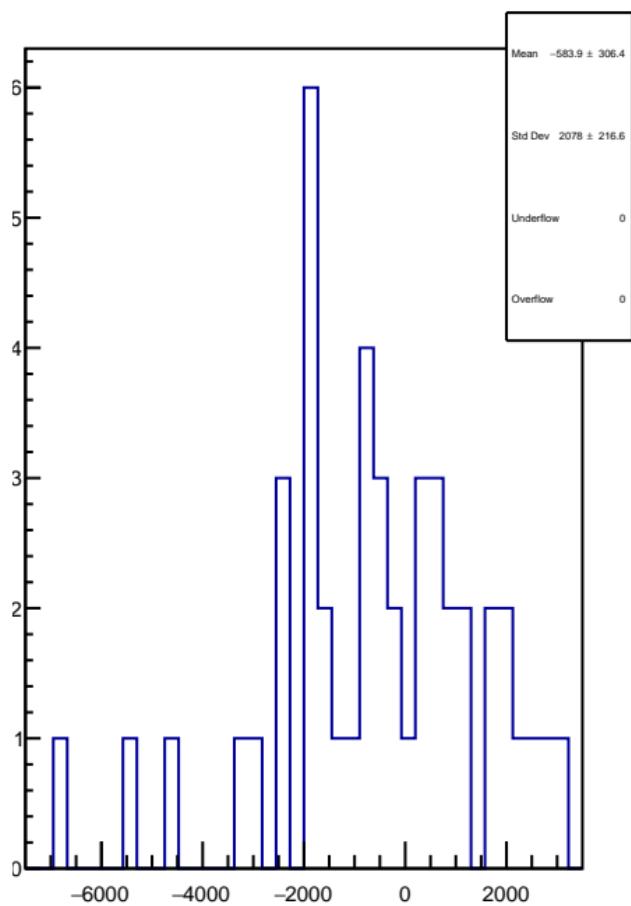
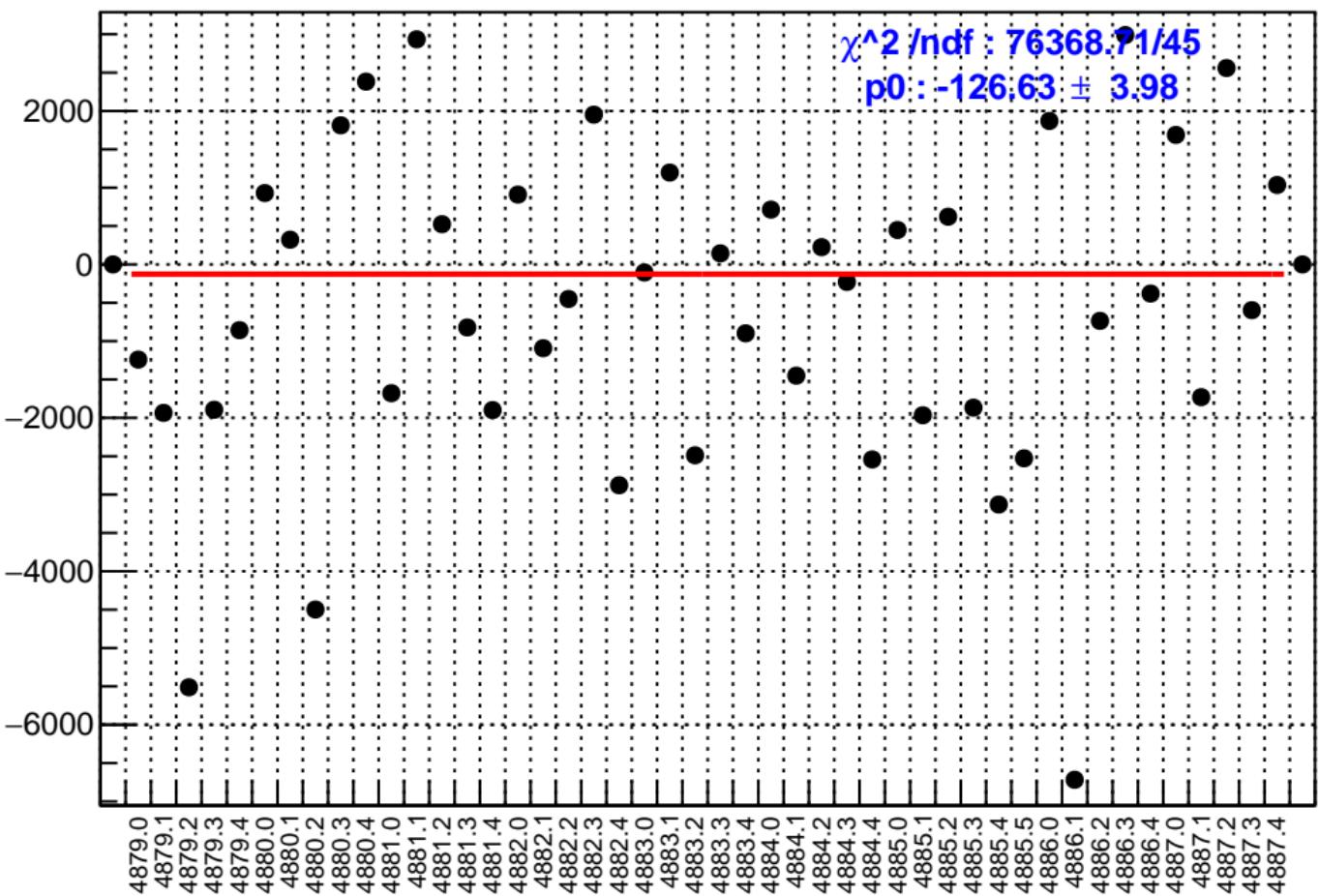


## 1D pull distribution

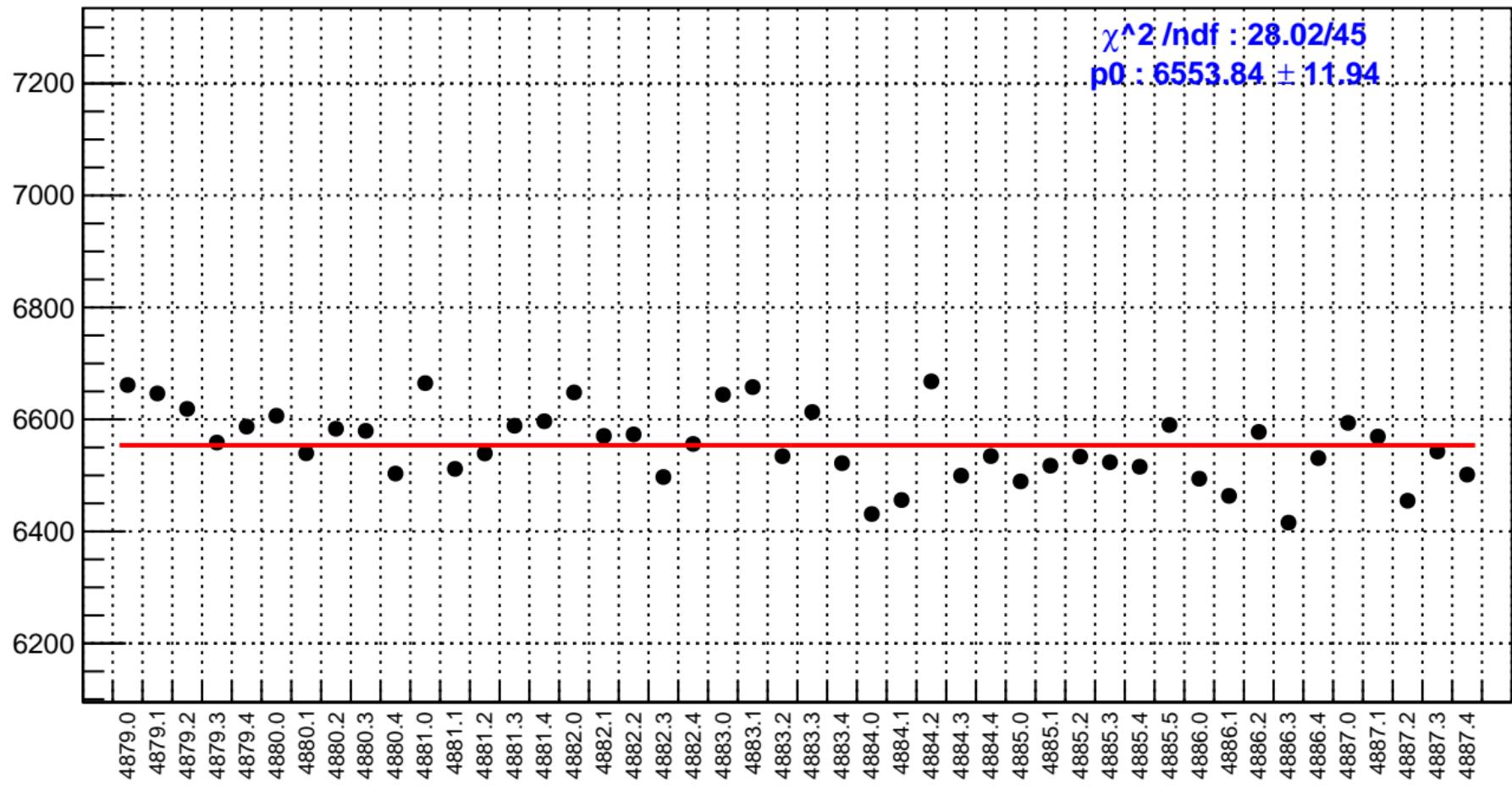


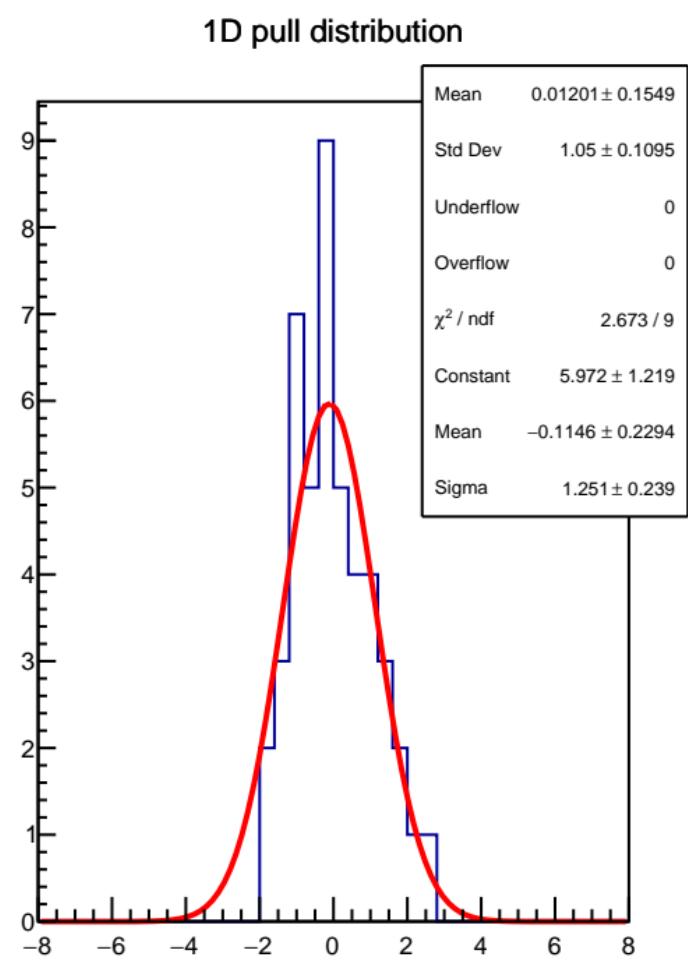
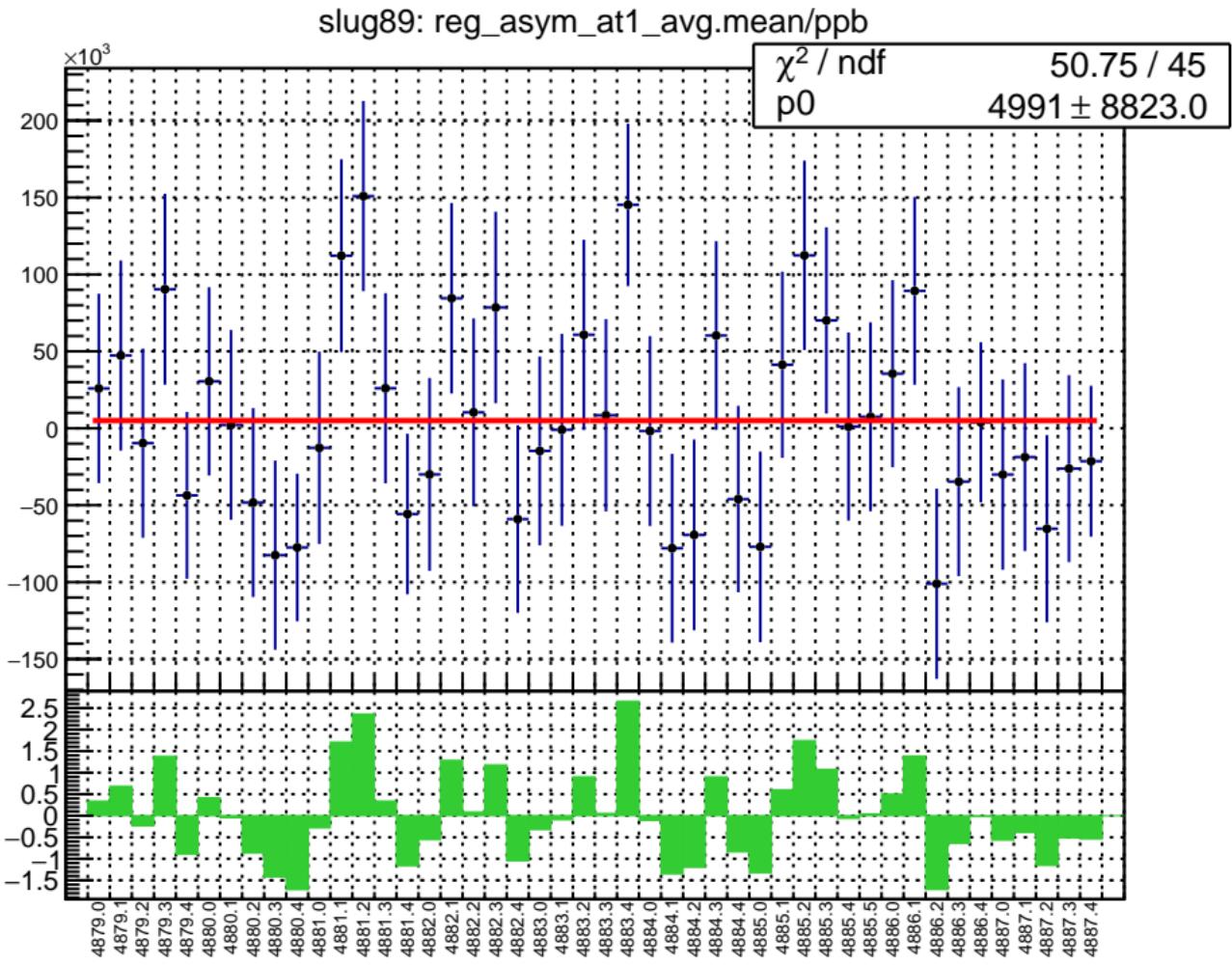
slug89: asym\_atr\_dd.mean/ppb-reg\_asym\_atr\_dd.mean/ppb

slug89: 1D Corr asym\_atr\_dd.mean/ppb-reg\_asym\_atr\_dd.mean/ppb



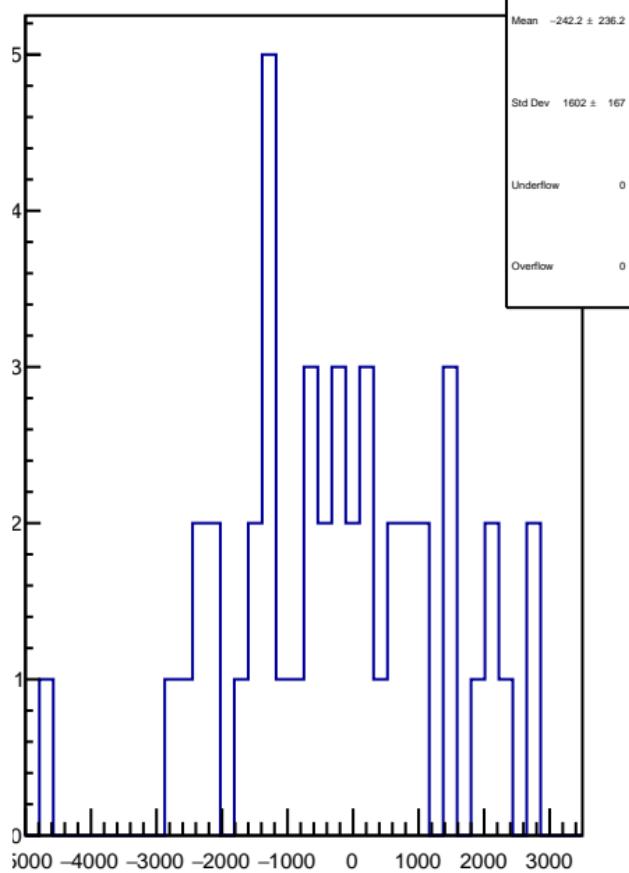
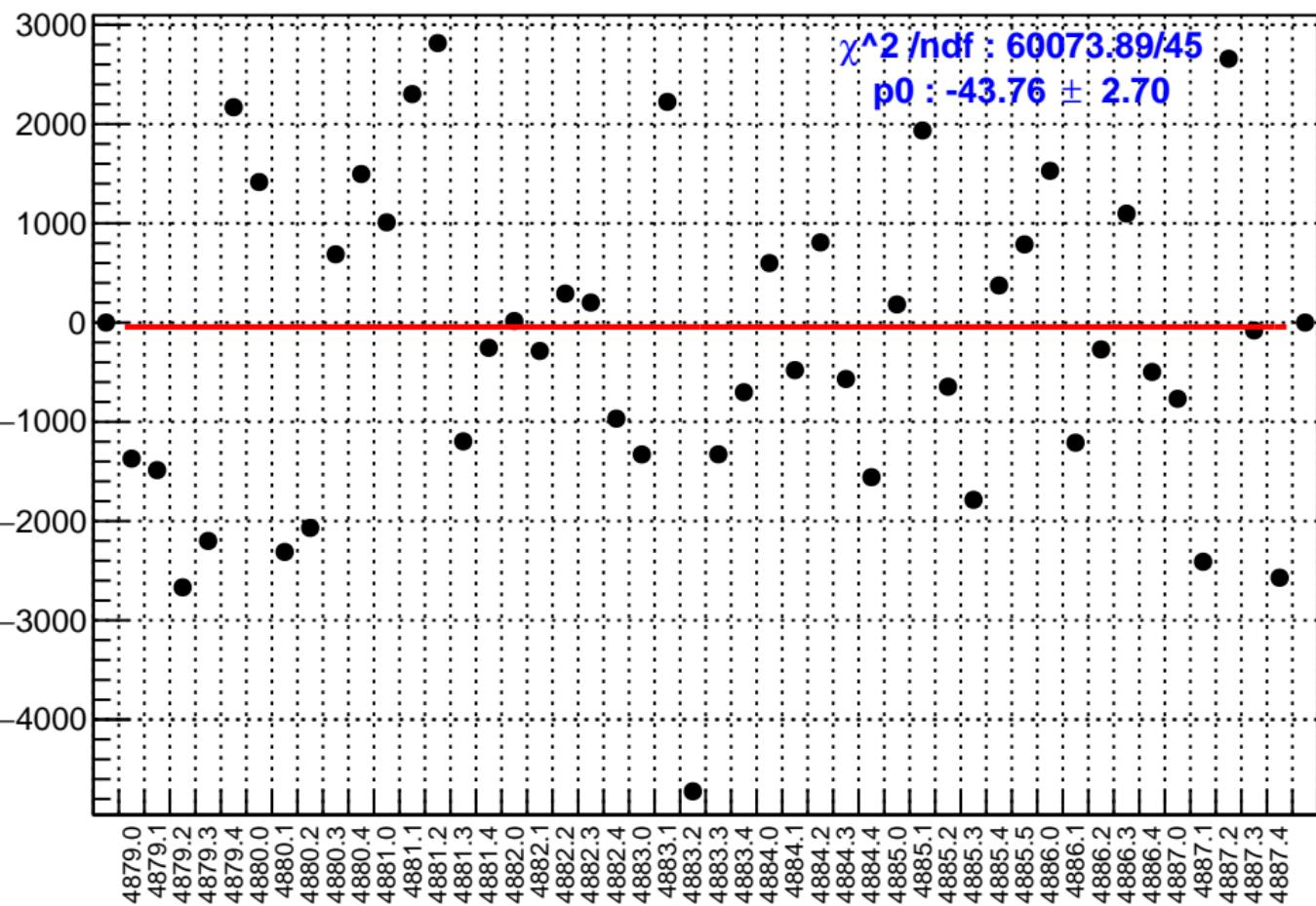
# slug89: reg\_asym\_atr\_dd.rms/ppm



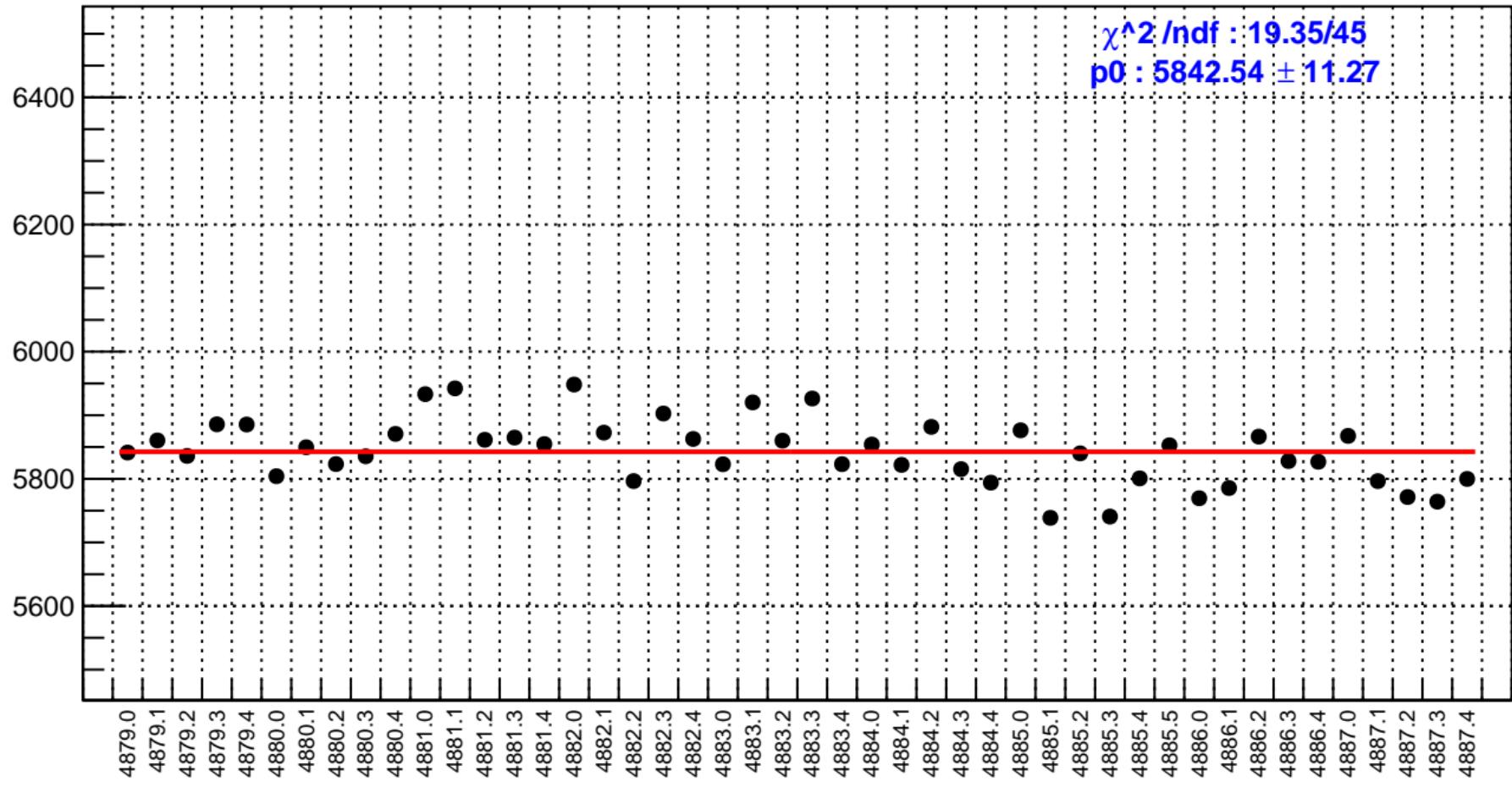


slug89: asym\_at1\_avg.mean/ppb-reg\_asym\_at1\_avg.mean/ppb

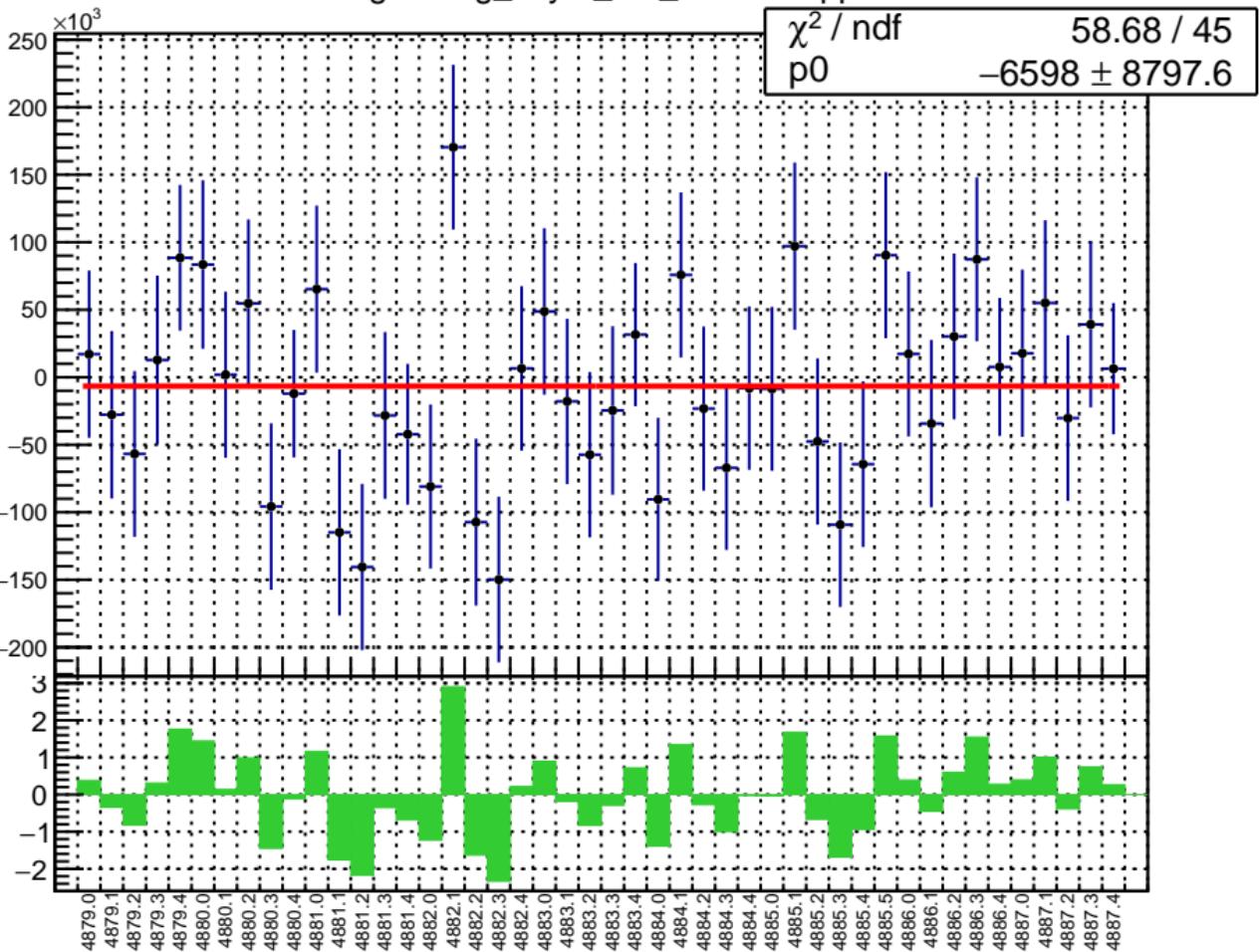
slug89: 1D Corr asym\_at1\_avg.mean/ppb-reg\_asym\_at1\_avg.mean/ppb



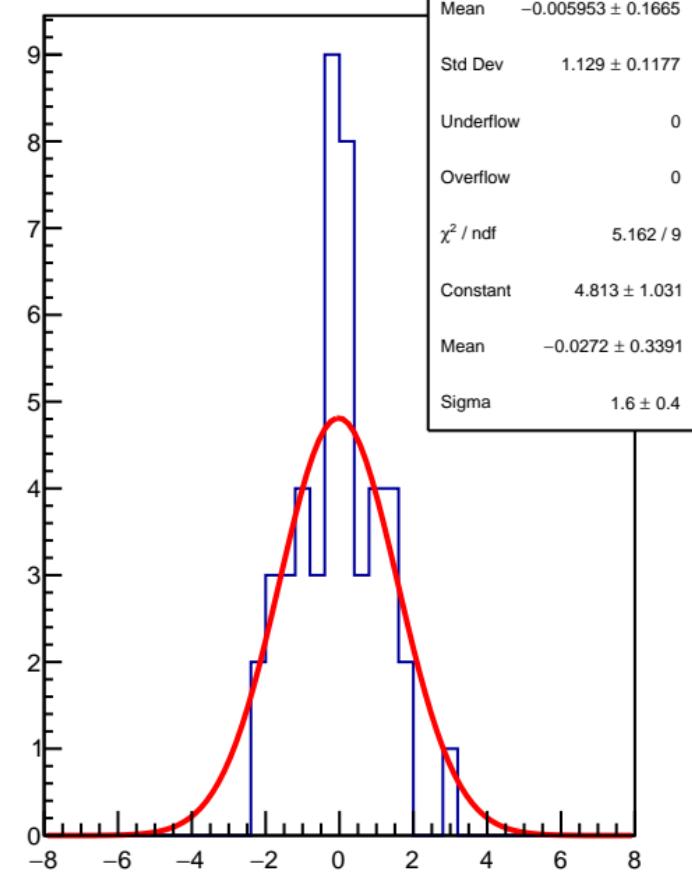
# slug89: reg\_asym\_at1\_avg.rms/ppm

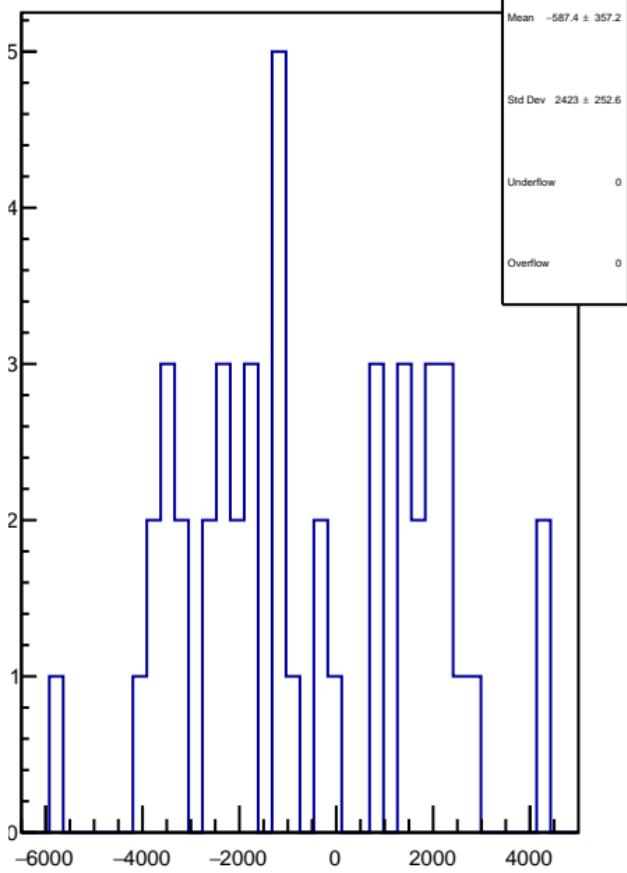
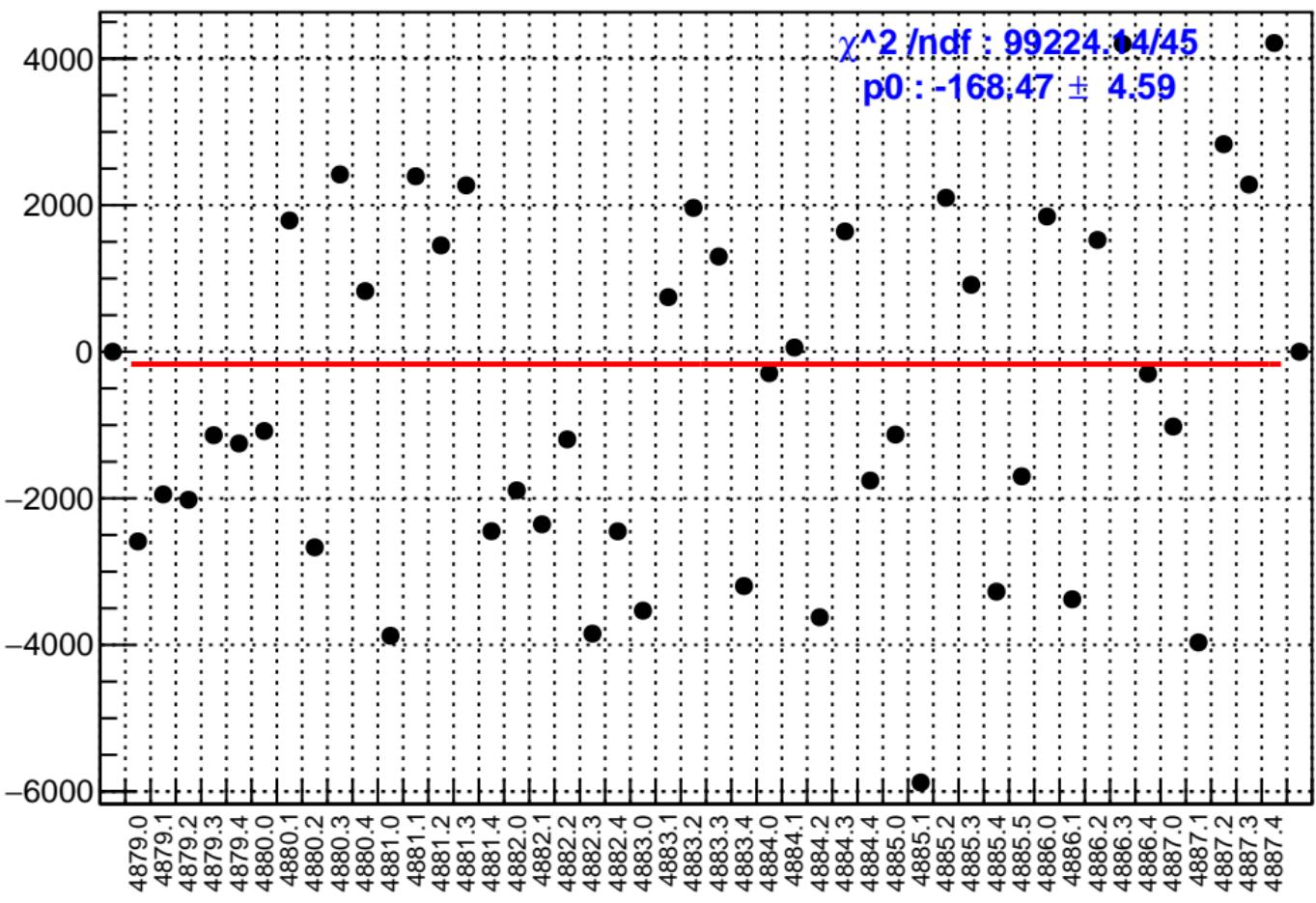


## slug89: reg\_asym\_at1\_dd.mean/ppb

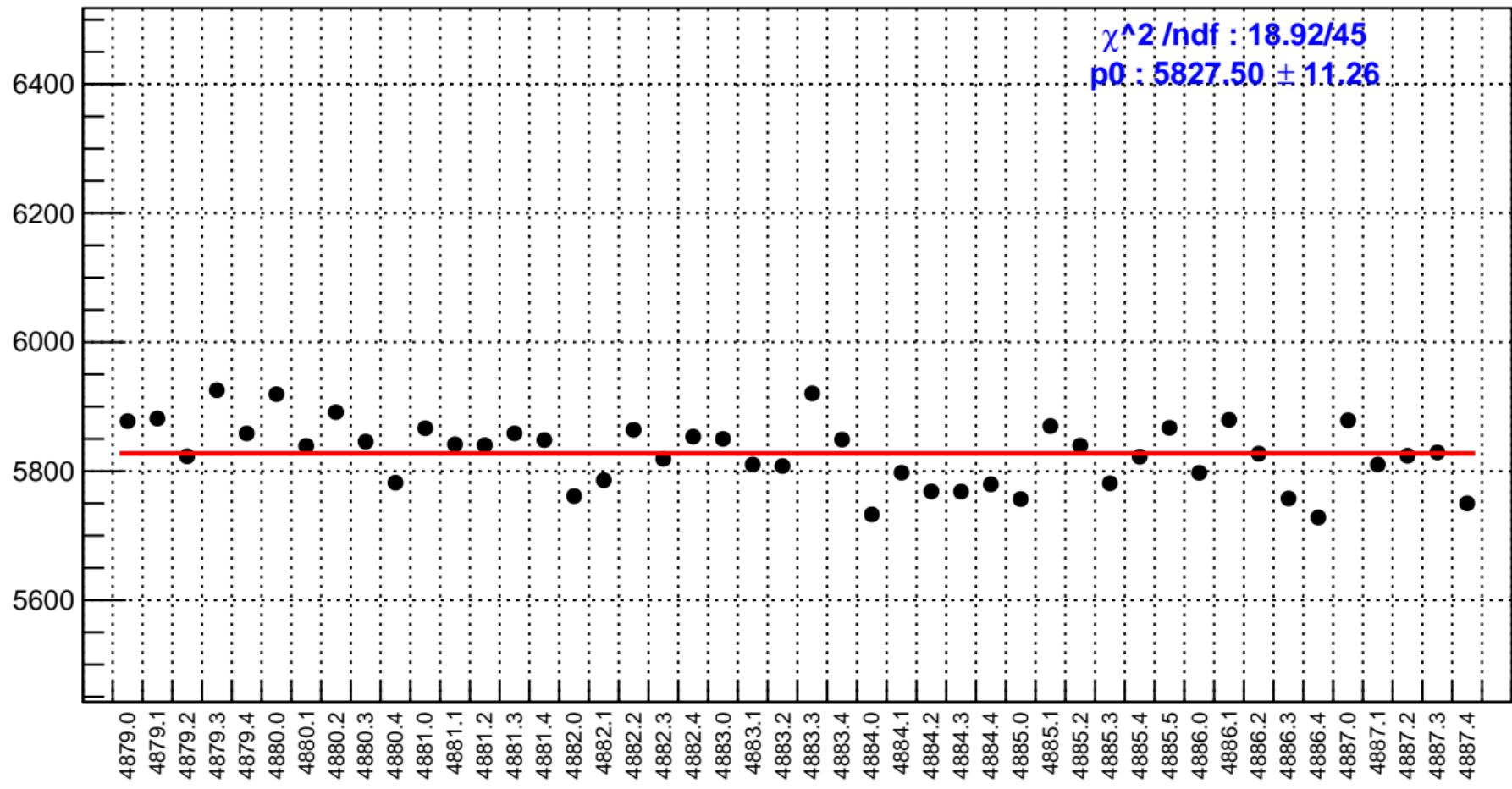


## 1D pull distribution

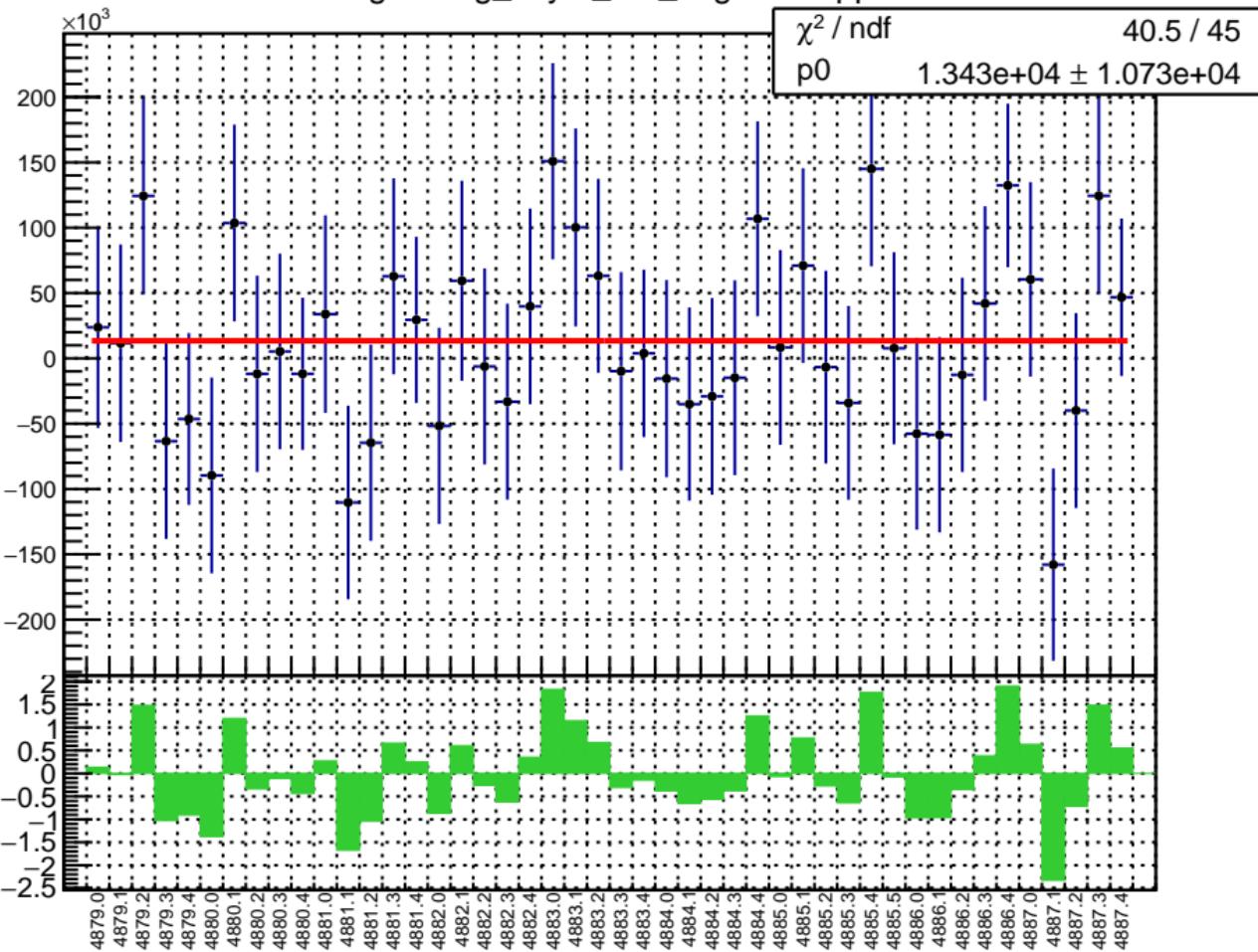




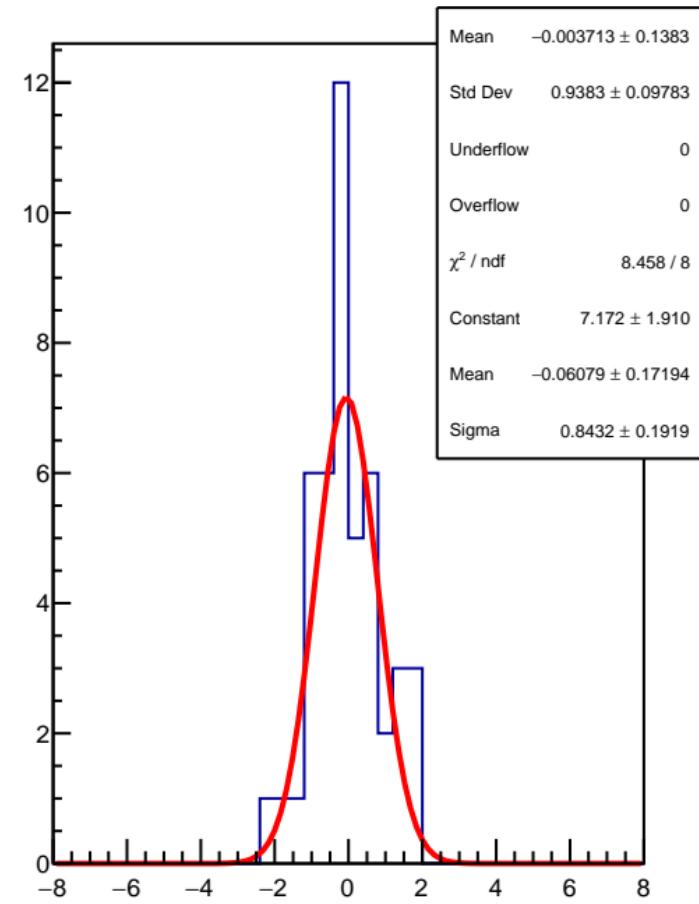
# slug89: reg\_asym\_at1\_dd.rms/ppm



## slug89: reg\_asym\_at2\_avg.mean/ppb

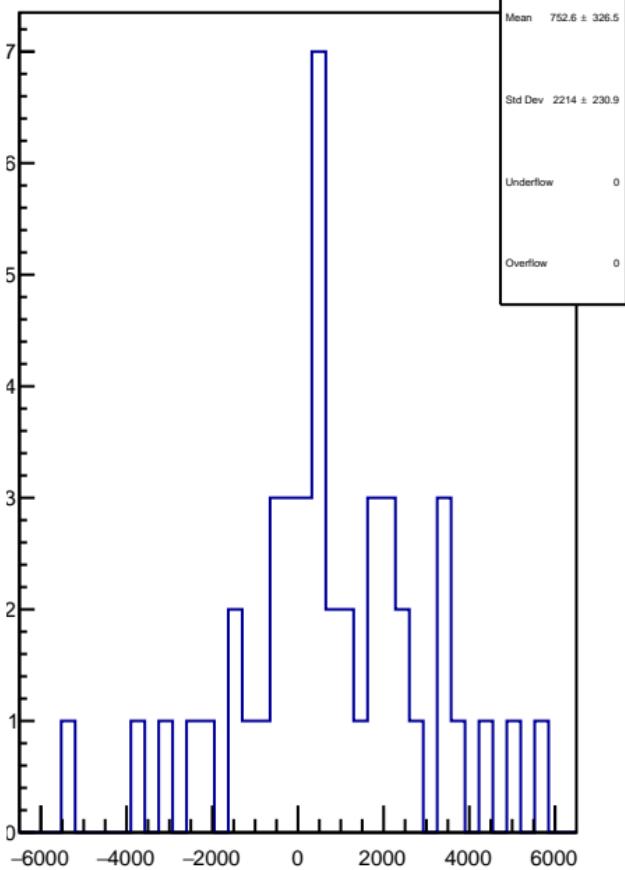
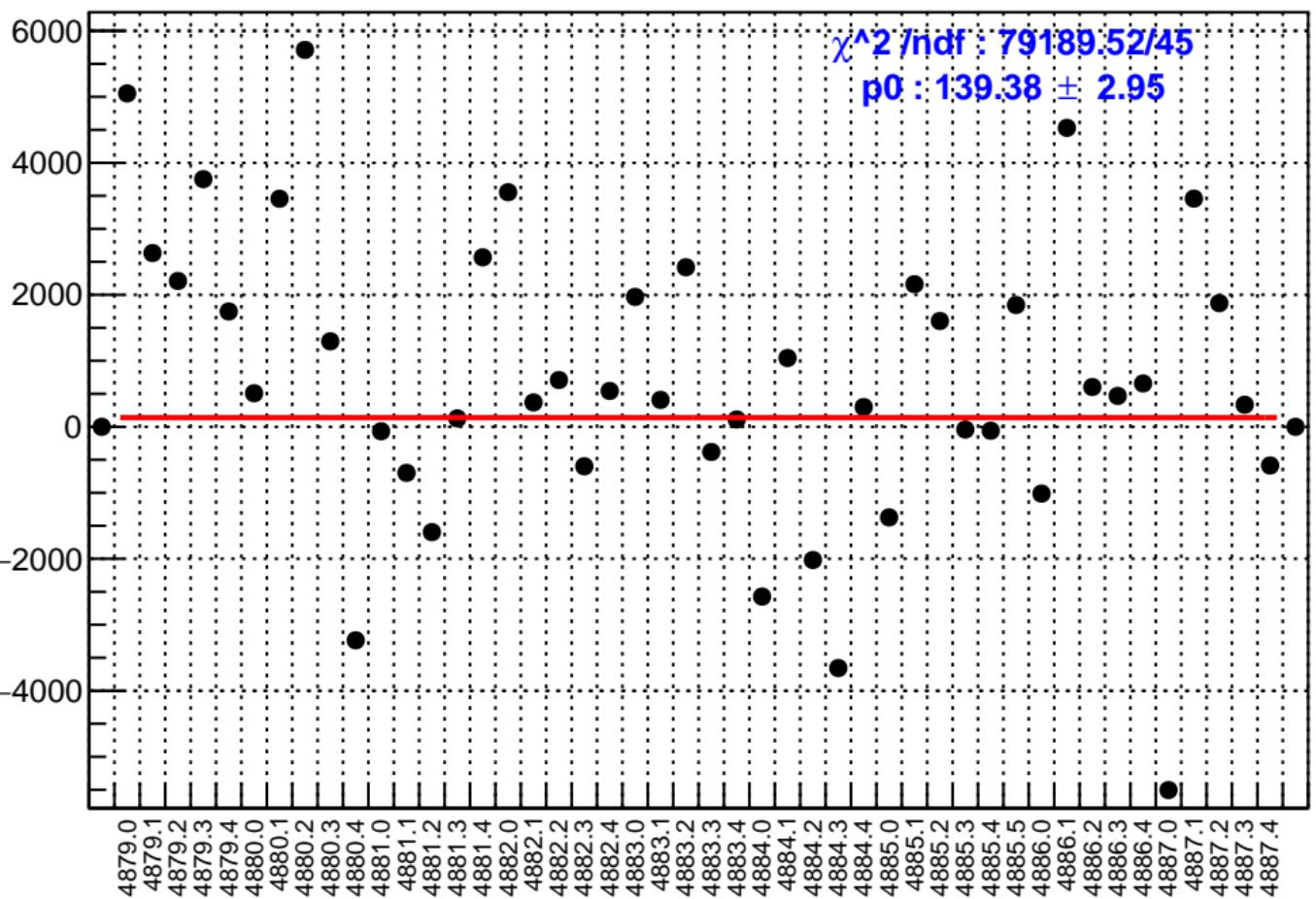


## 1D pull distribution

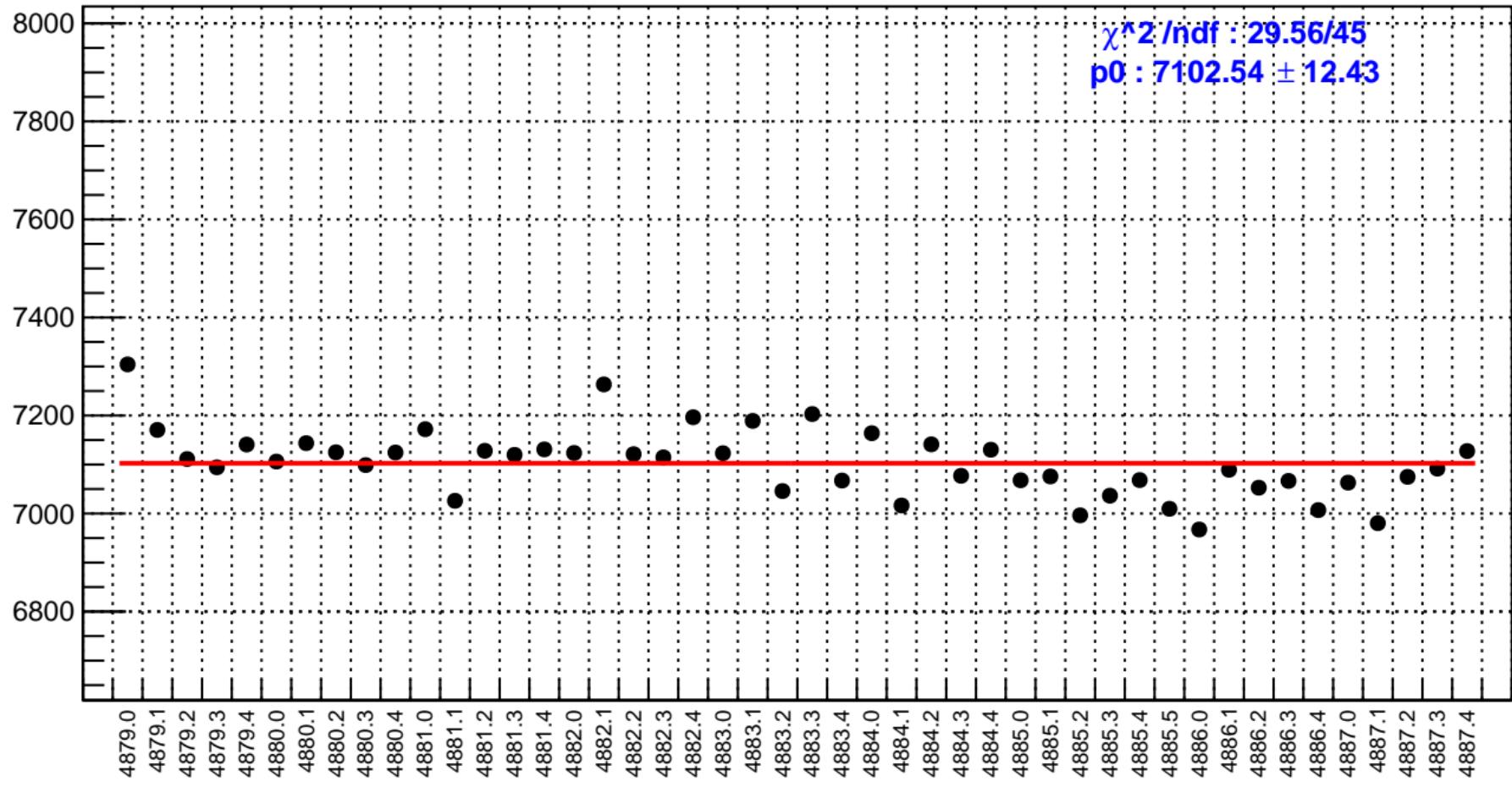


slug89: asym\_at2\_avg.mean/ppb-reg\_asym\_at2\_avg.mean/ppb

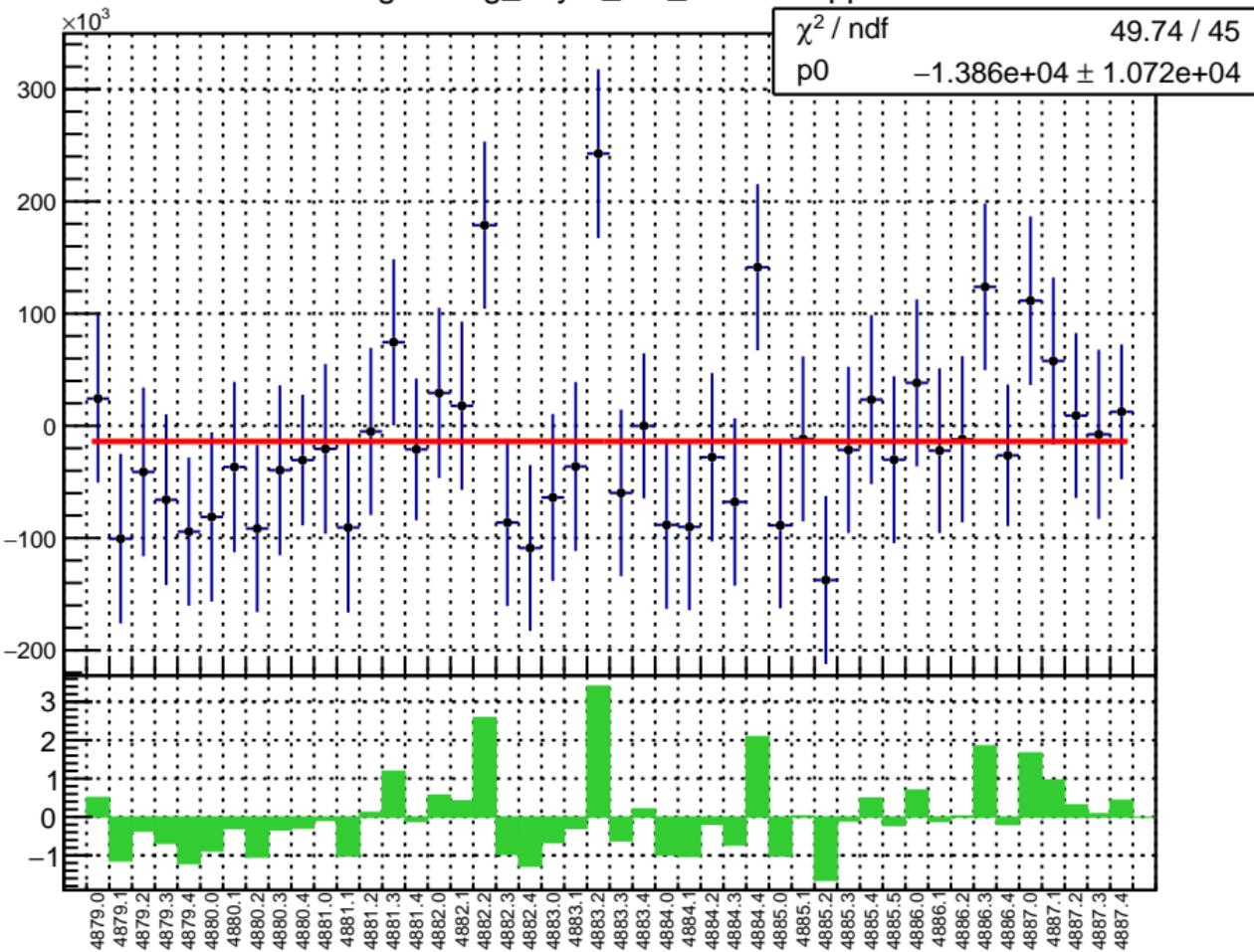
slug89: 1D Corr asym\_at2\_avg.mean/ppb-reg\_asym\_at2\_avg.mean/ppb



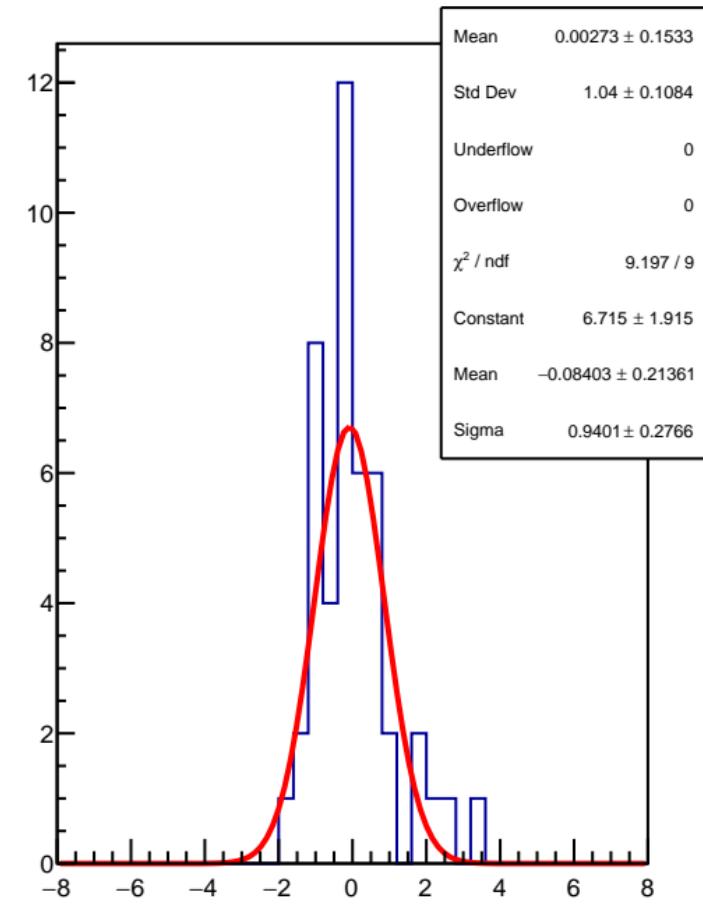
# slug89: reg\_asym\_at2\_avg.rms/ppm

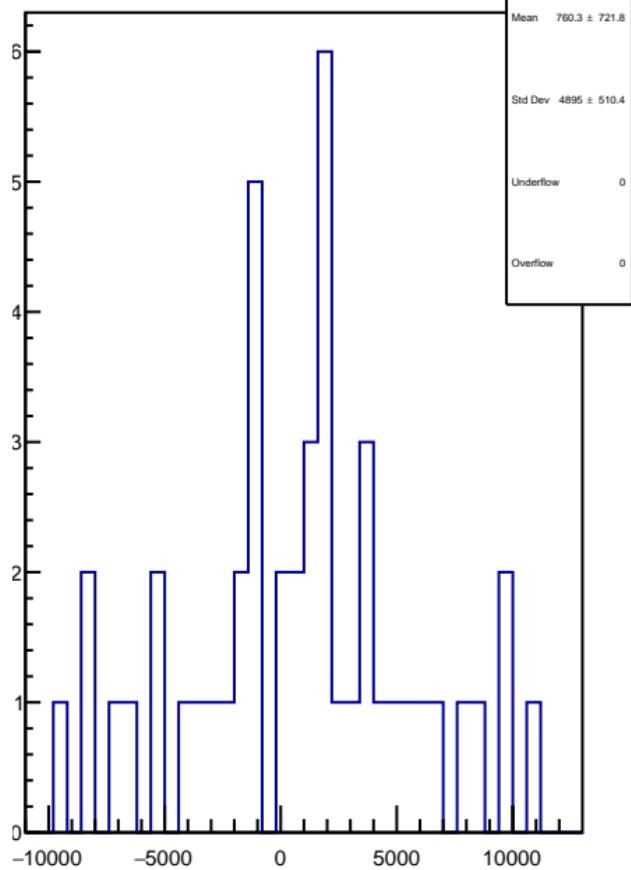
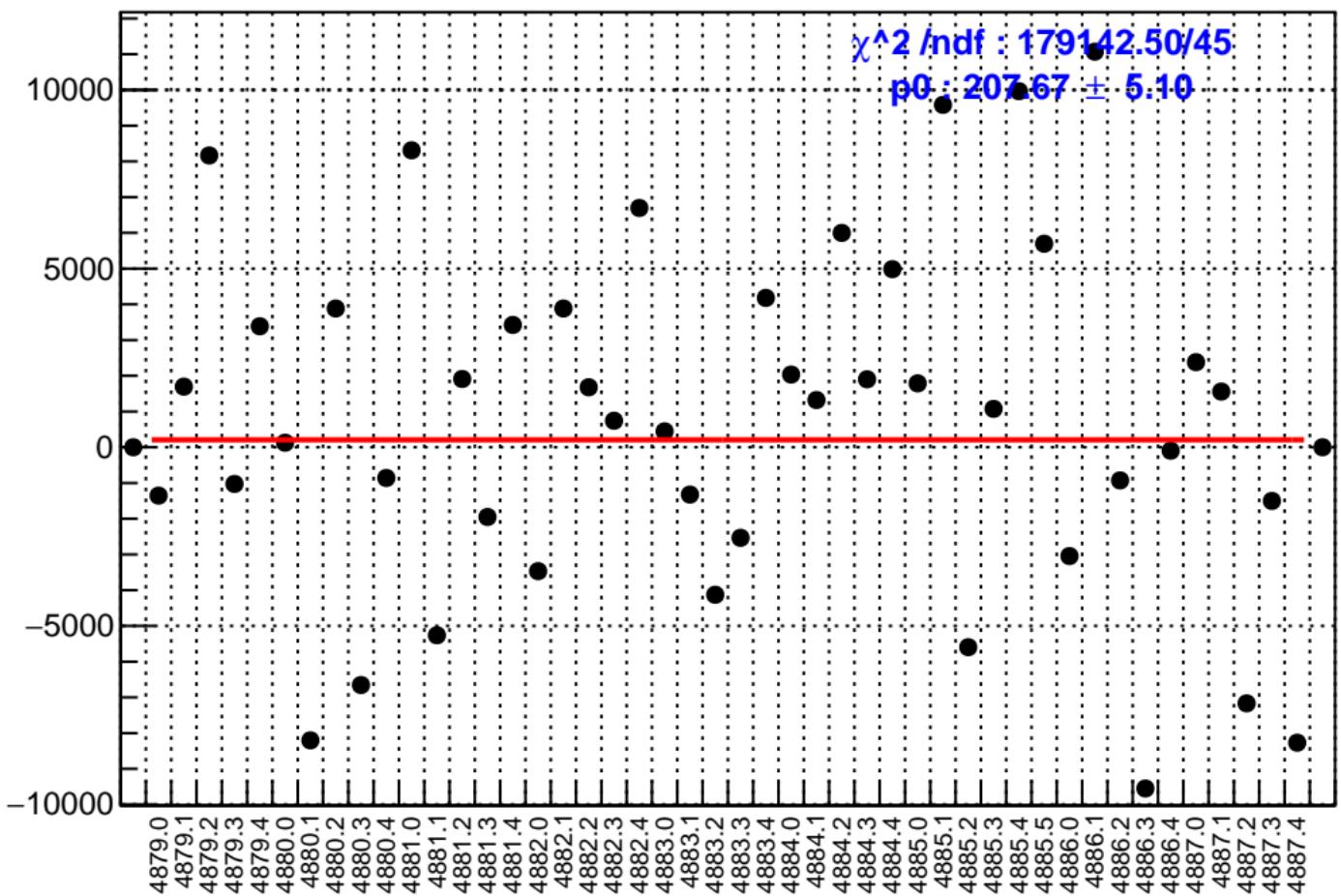


## slug89: reg\_asym\_at2\_dd.mean/ppb

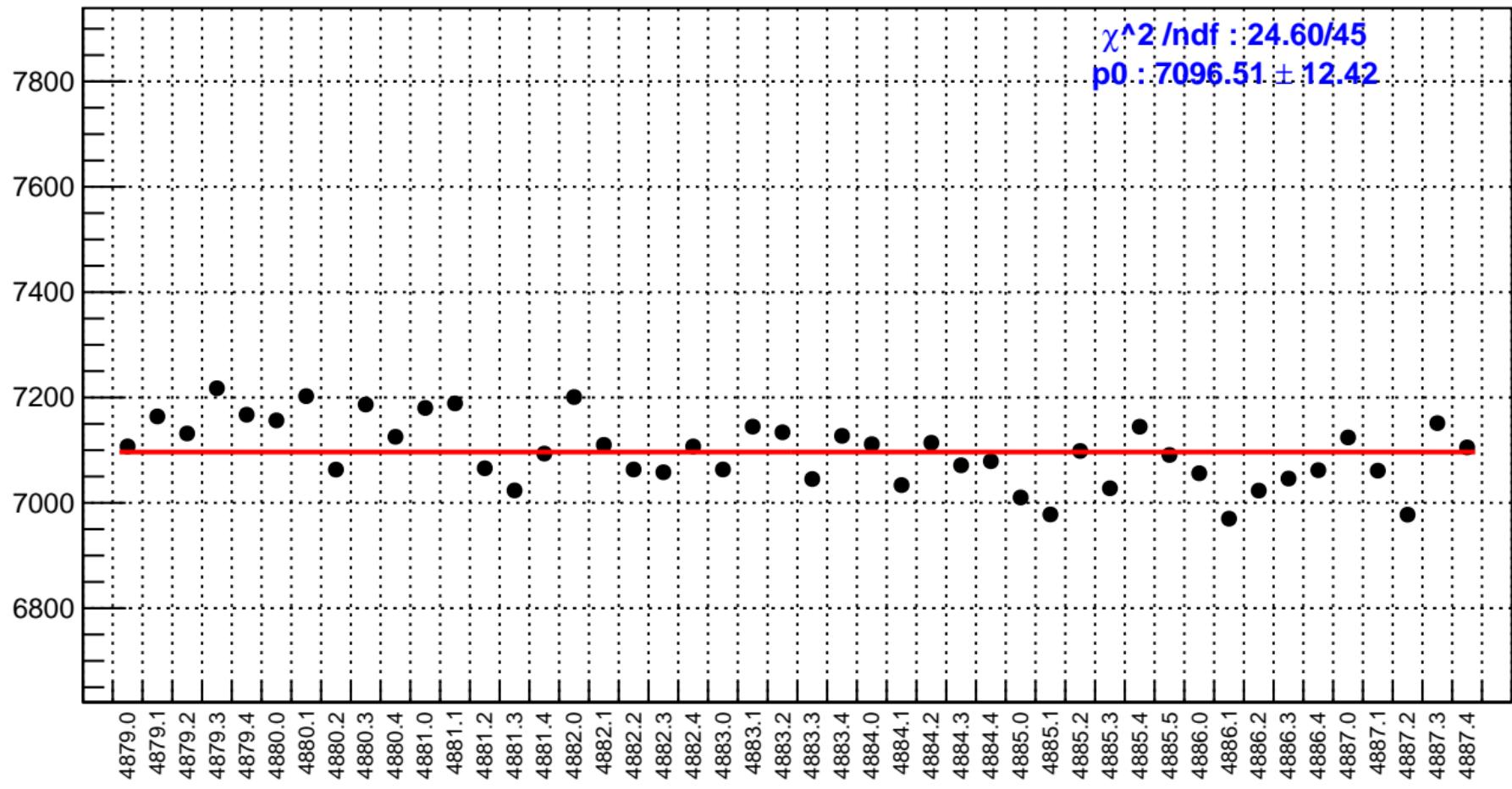


## 1D pull distribution

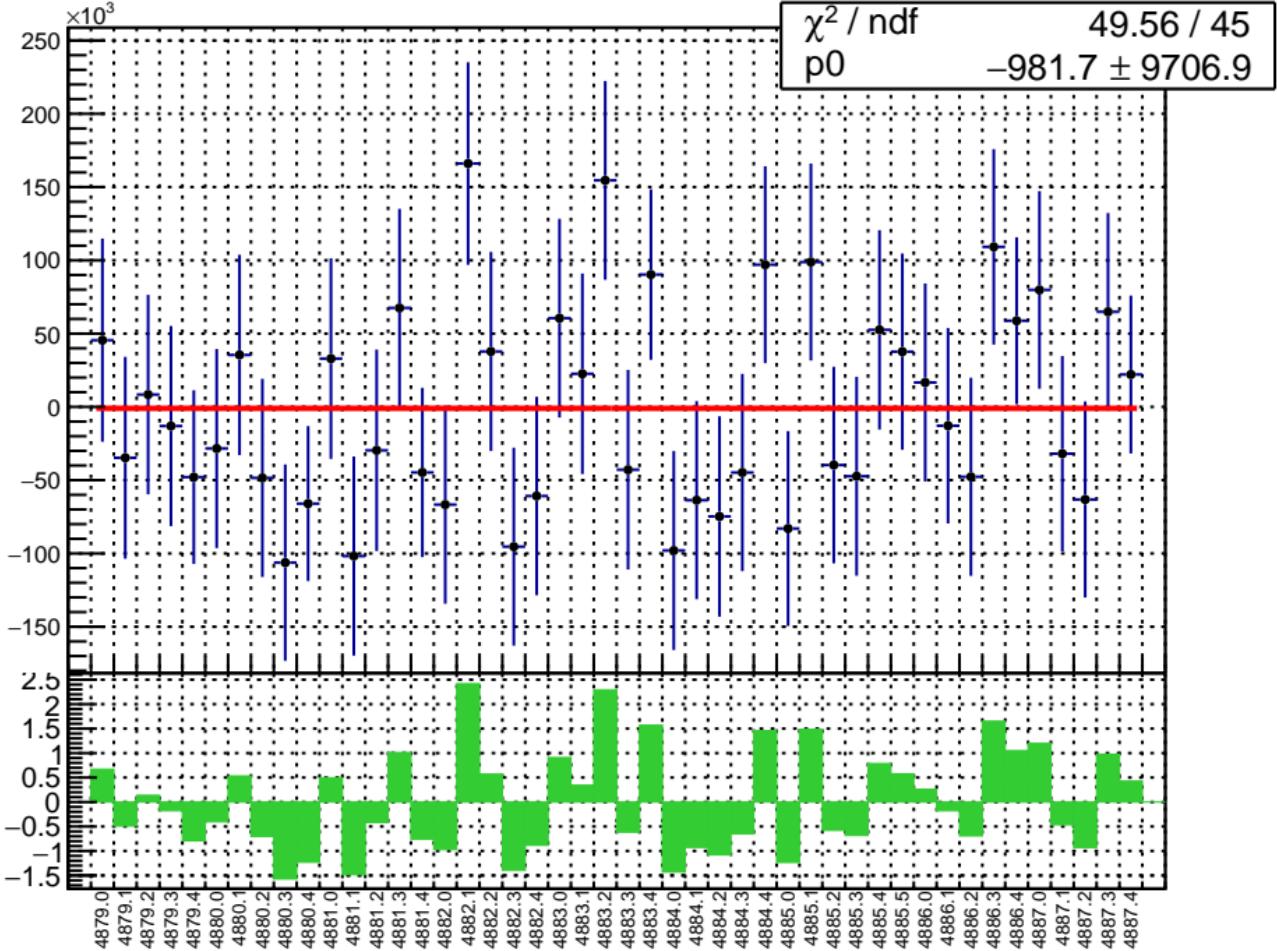




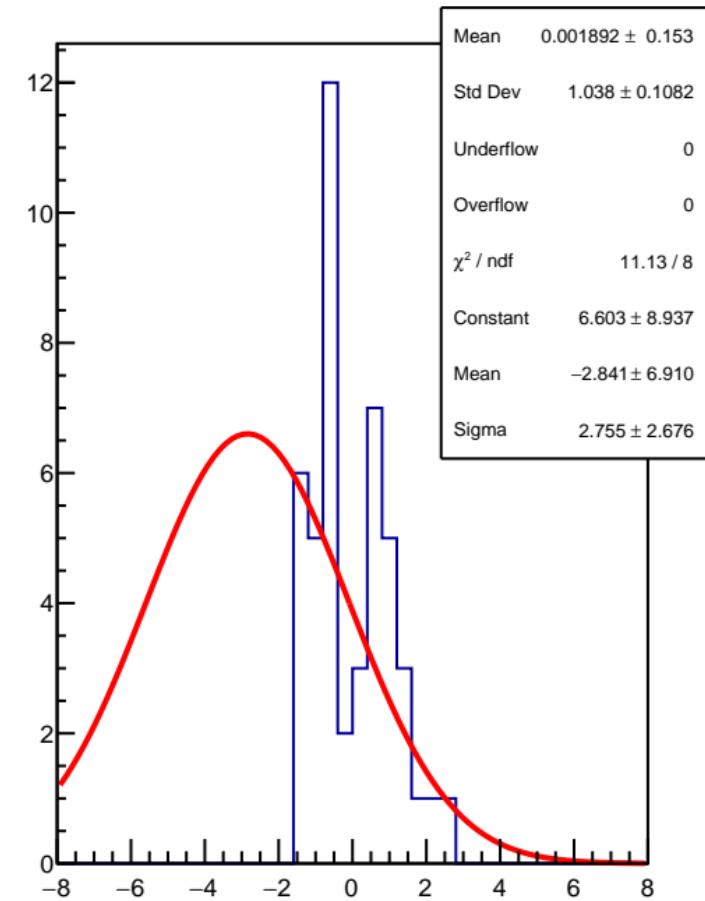
# slug89: reg\_asym\_at2\_dd.rms/ppm

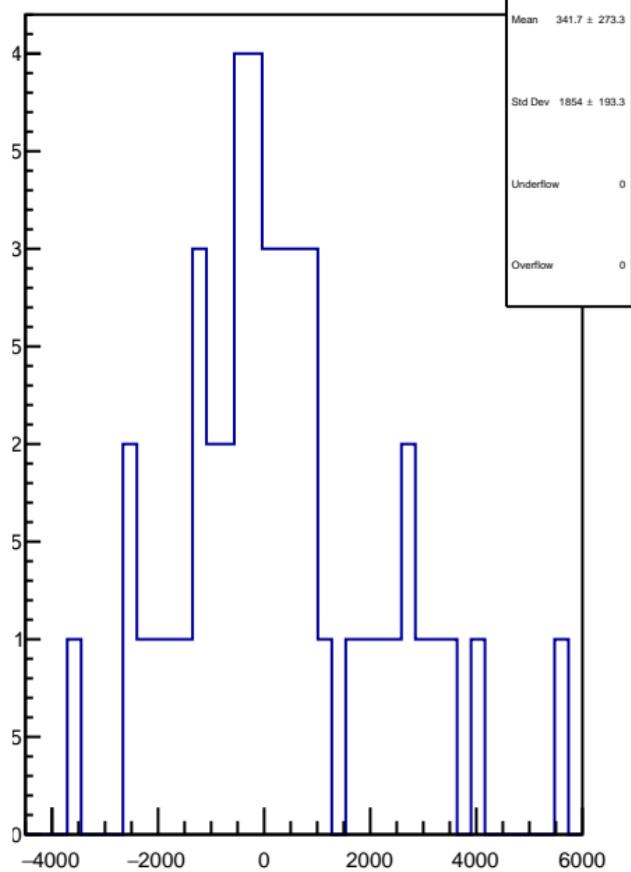
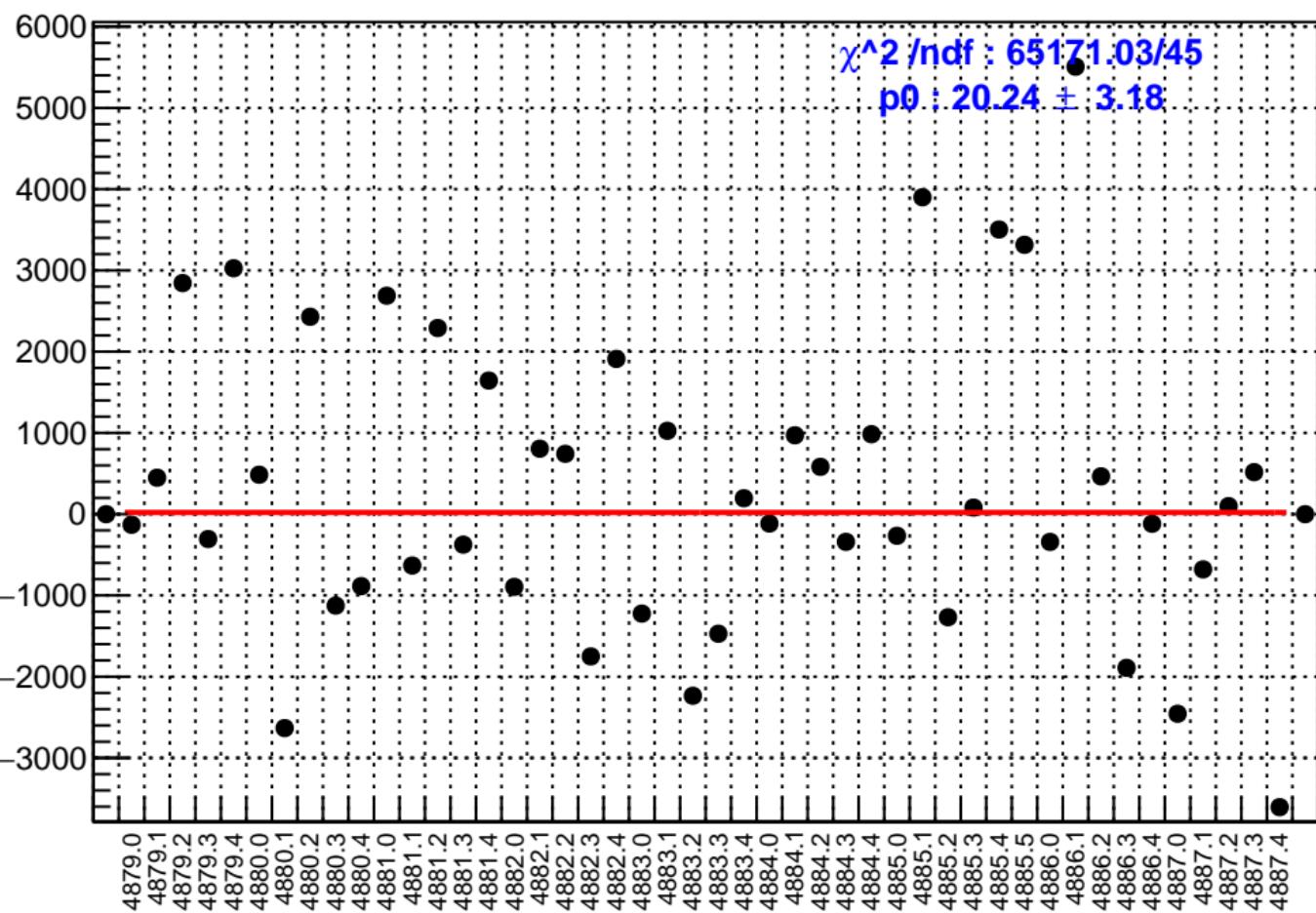


slug89: reg\_asym\_atl1r2\_avg.mean/ppb

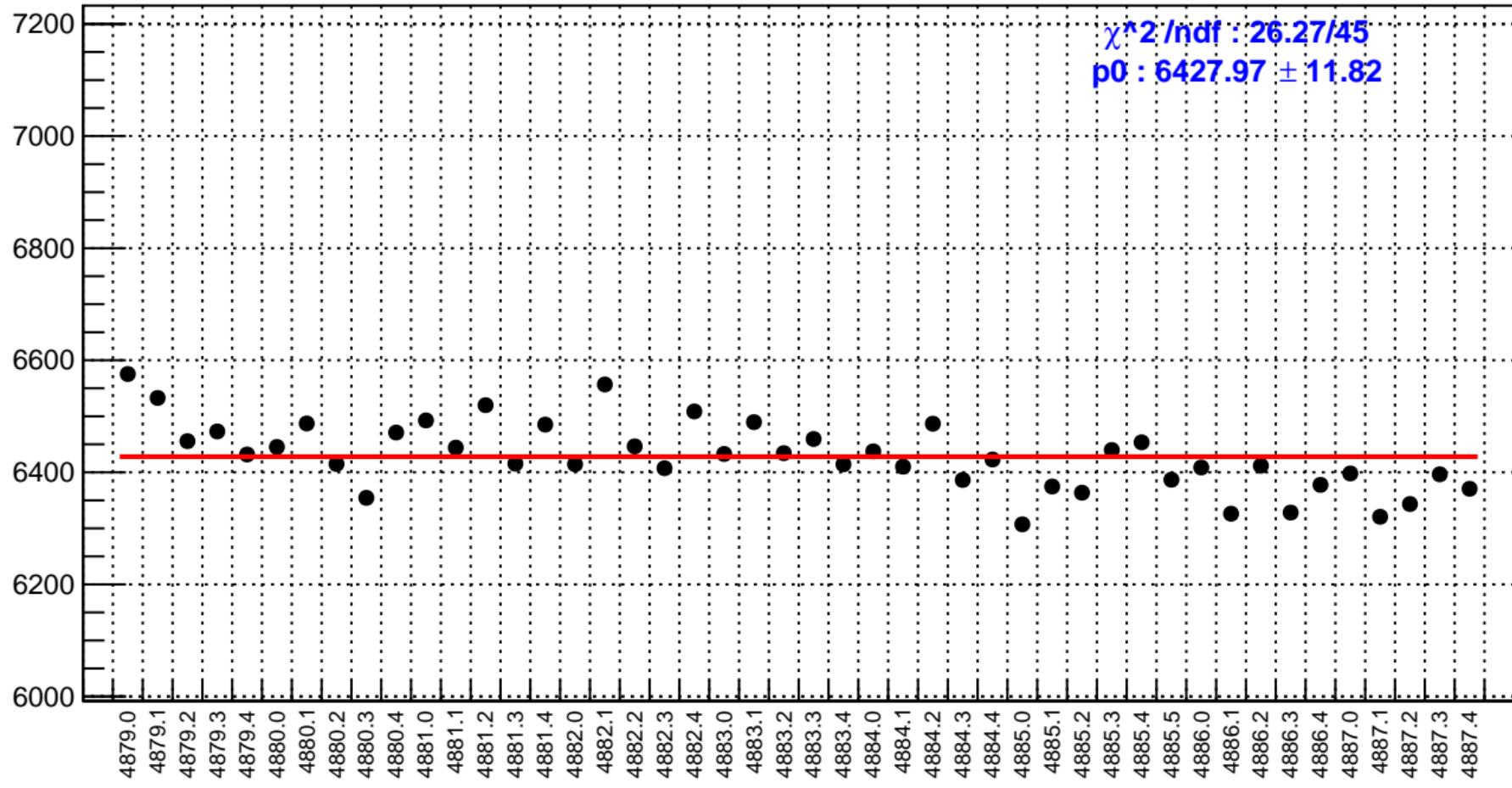


1D pull distribution

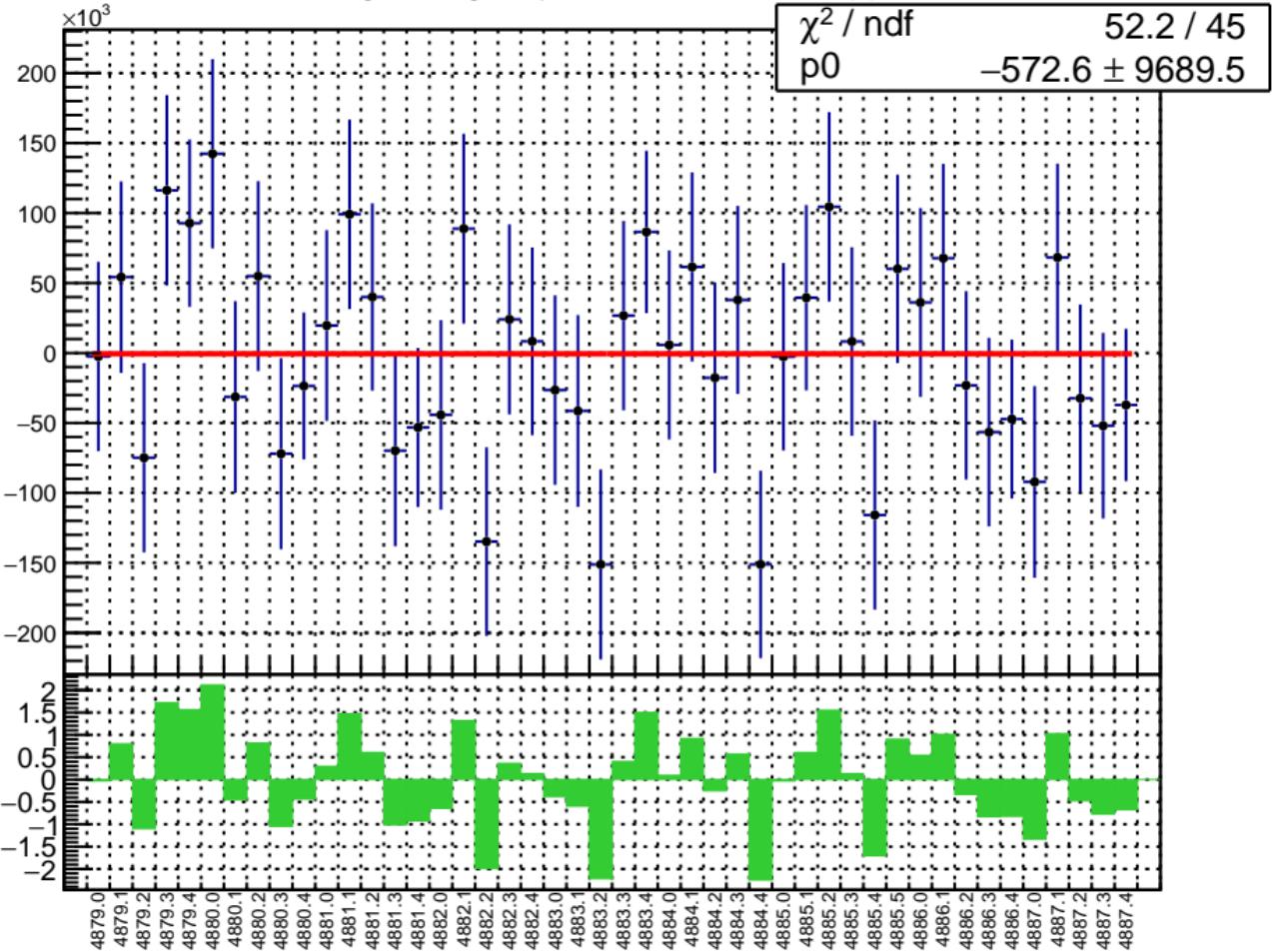




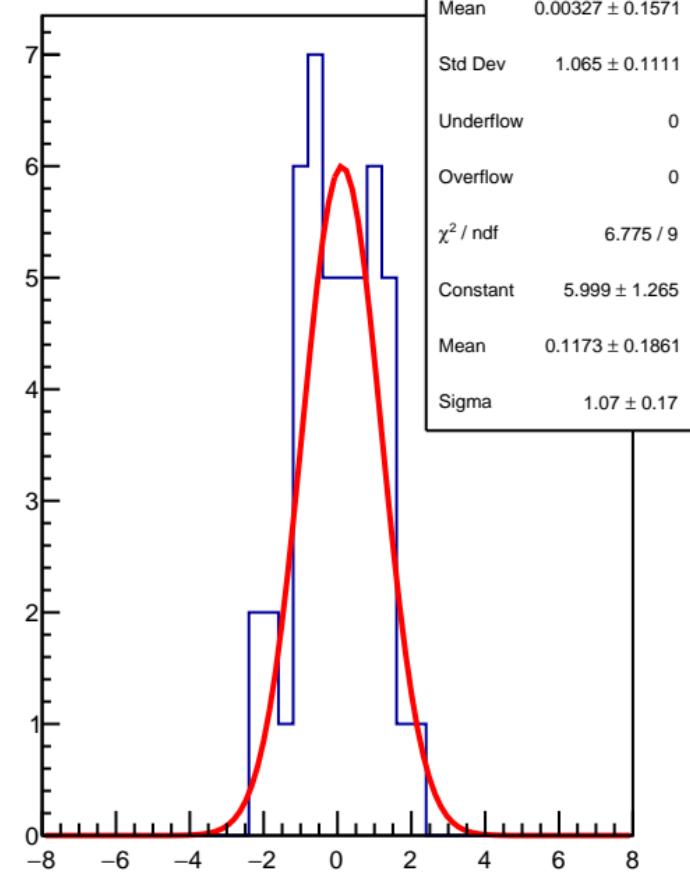
# slug89: reg\_asym\_atl1r2\_avg.rms/ppm



# slug89: reg\_asym\_atl1r2\_dd.mean/ppb

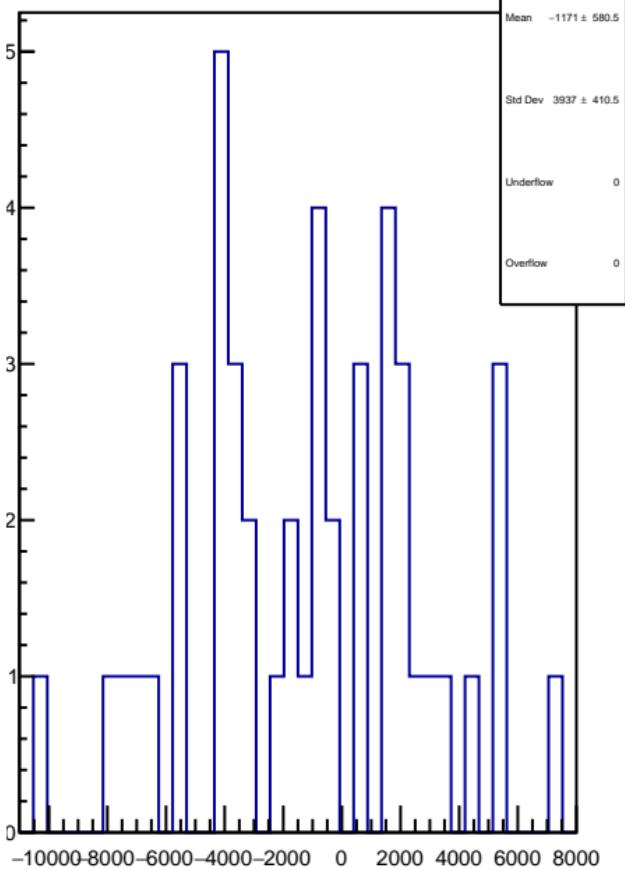
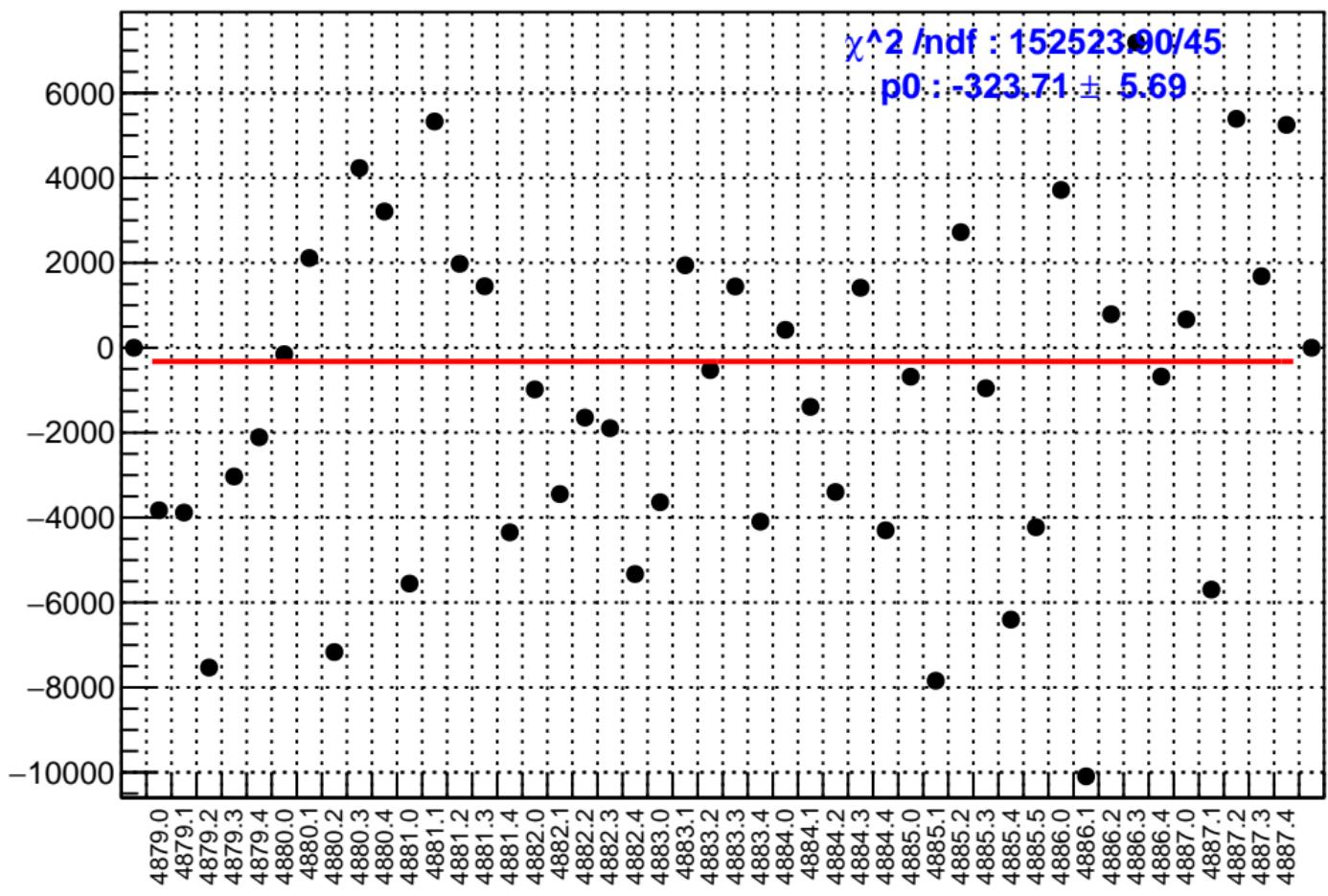


# 1D pull distribution

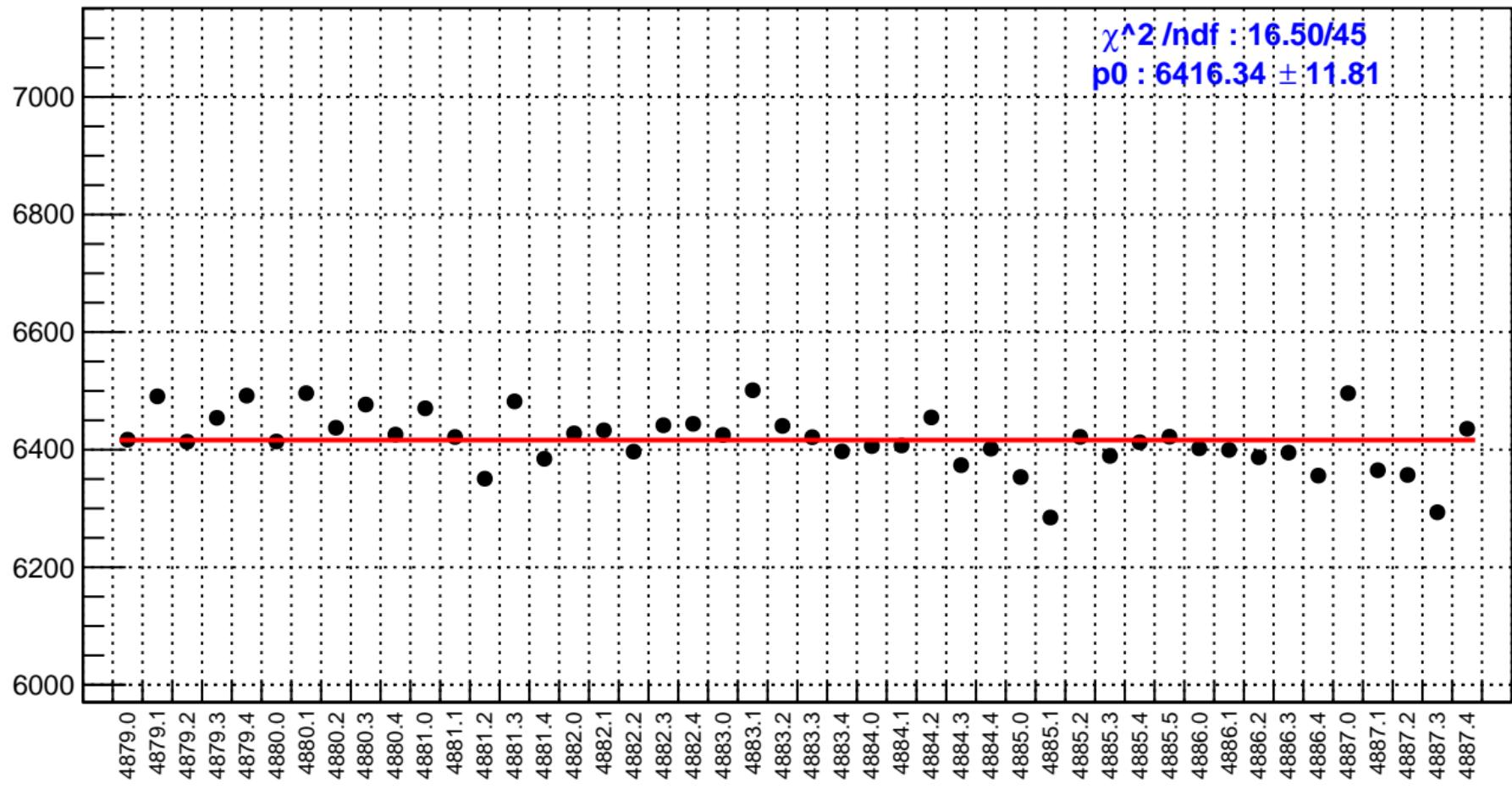


slug89: asym\_atl1r2\_dd.mean/ppb-reg\_asym\_atl1r2\_dd.mean/ppb

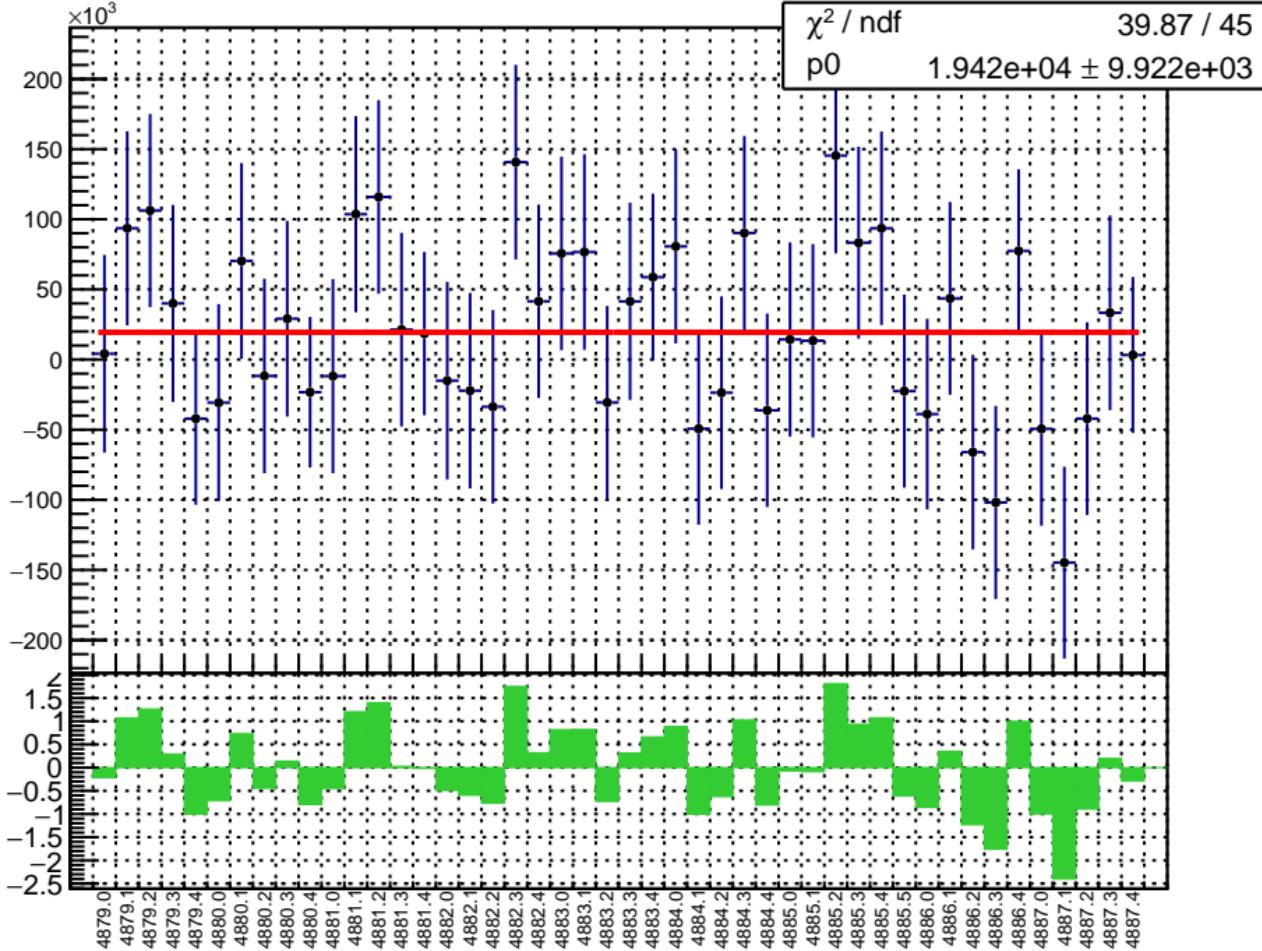
slug89: 1D Corr asym\_atl1r2\_dd.mean/ppb-reg\_asym\_atl1r2\_dd.mean/ppb



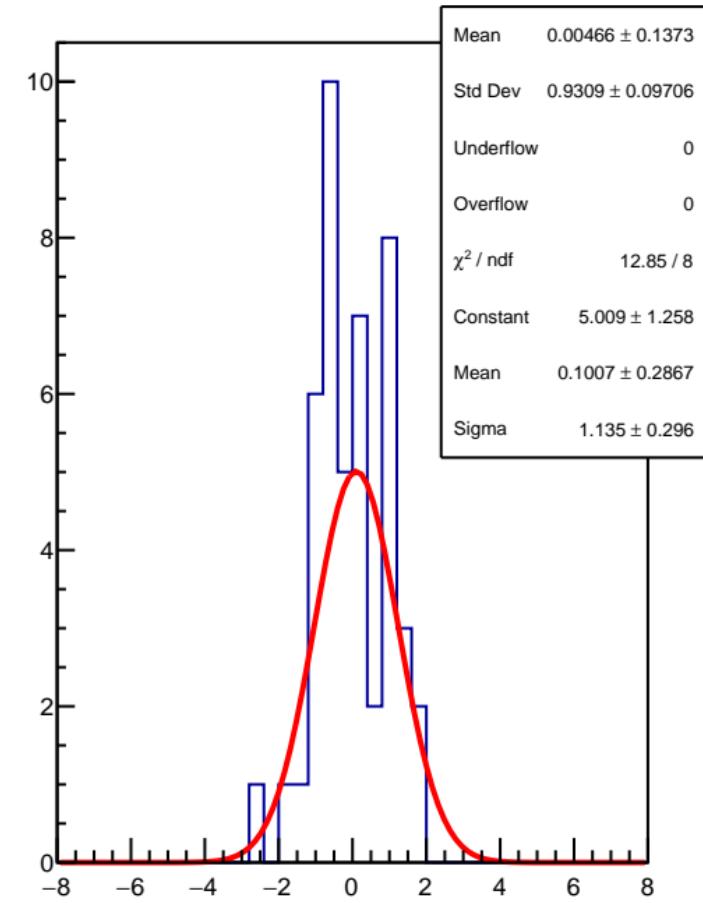
# slug89: reg\_asym\_atl1r2\_dd.rms/ppm



# slug89: reg\_asym\_atr1l2\_avg.mean/ppb

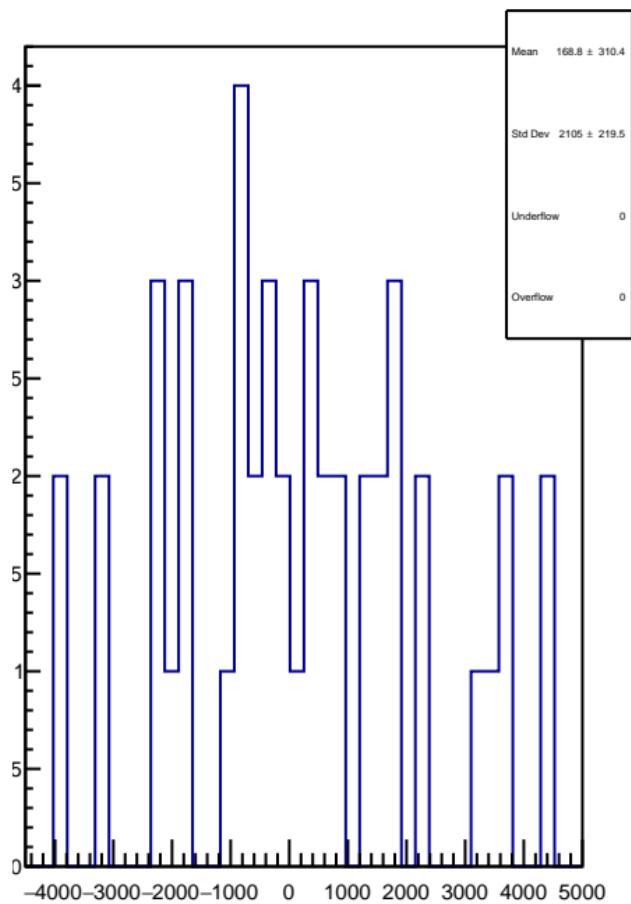
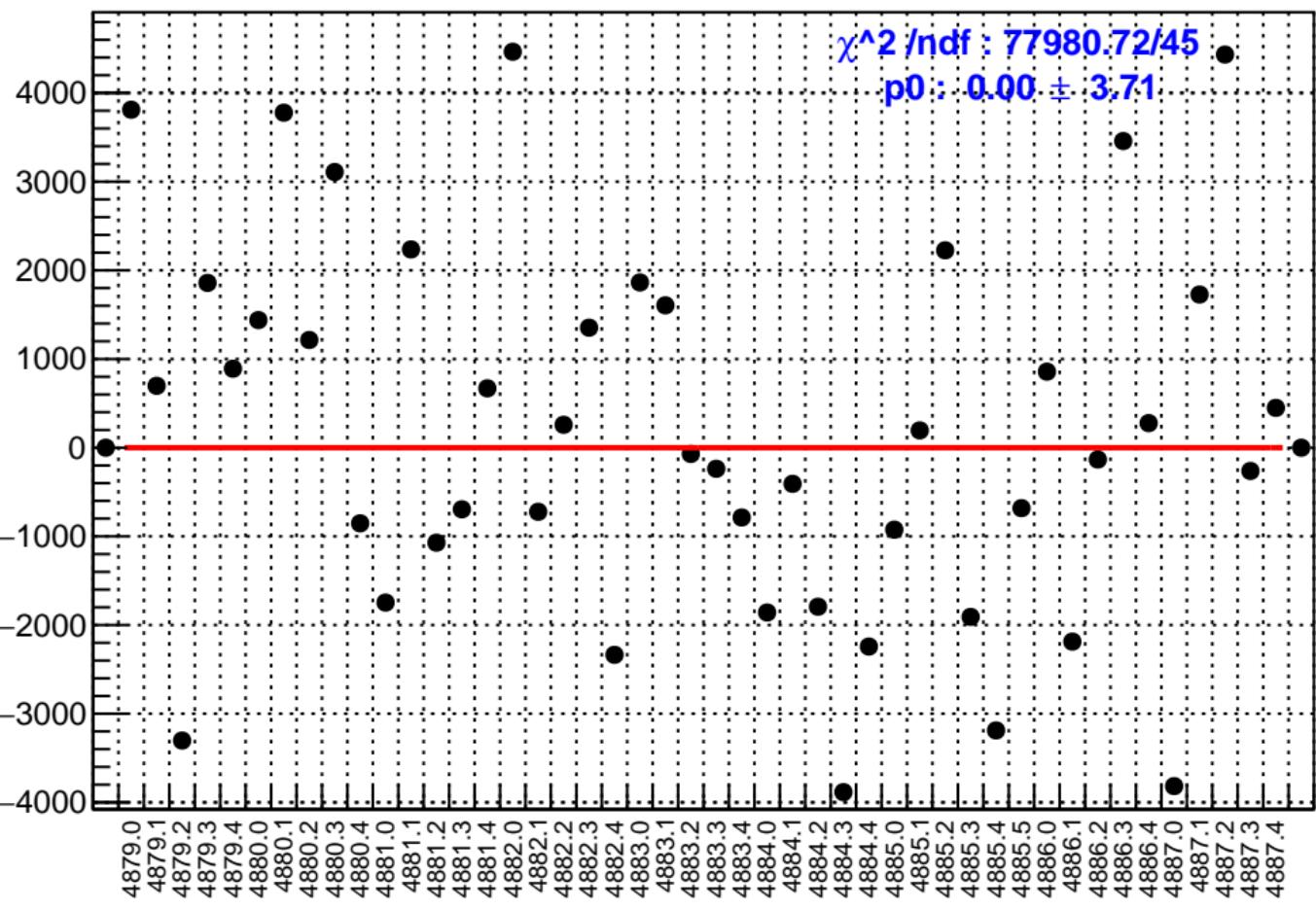


# 1D pull distribution

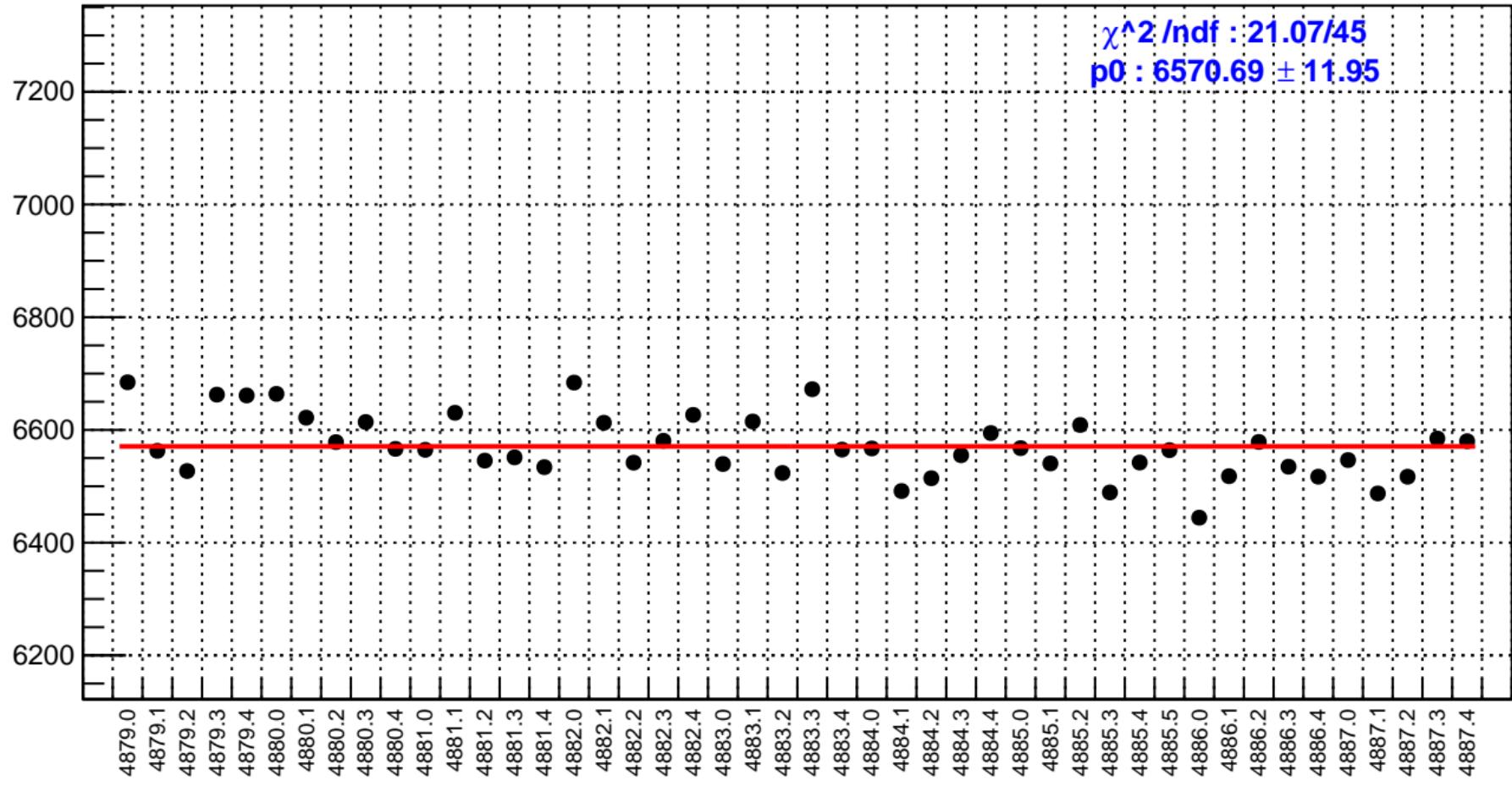


slug89: asym\_atr1l2\_avg.mean/ppb-reg\_asym\_atr1l2\_avg.mean/ppb

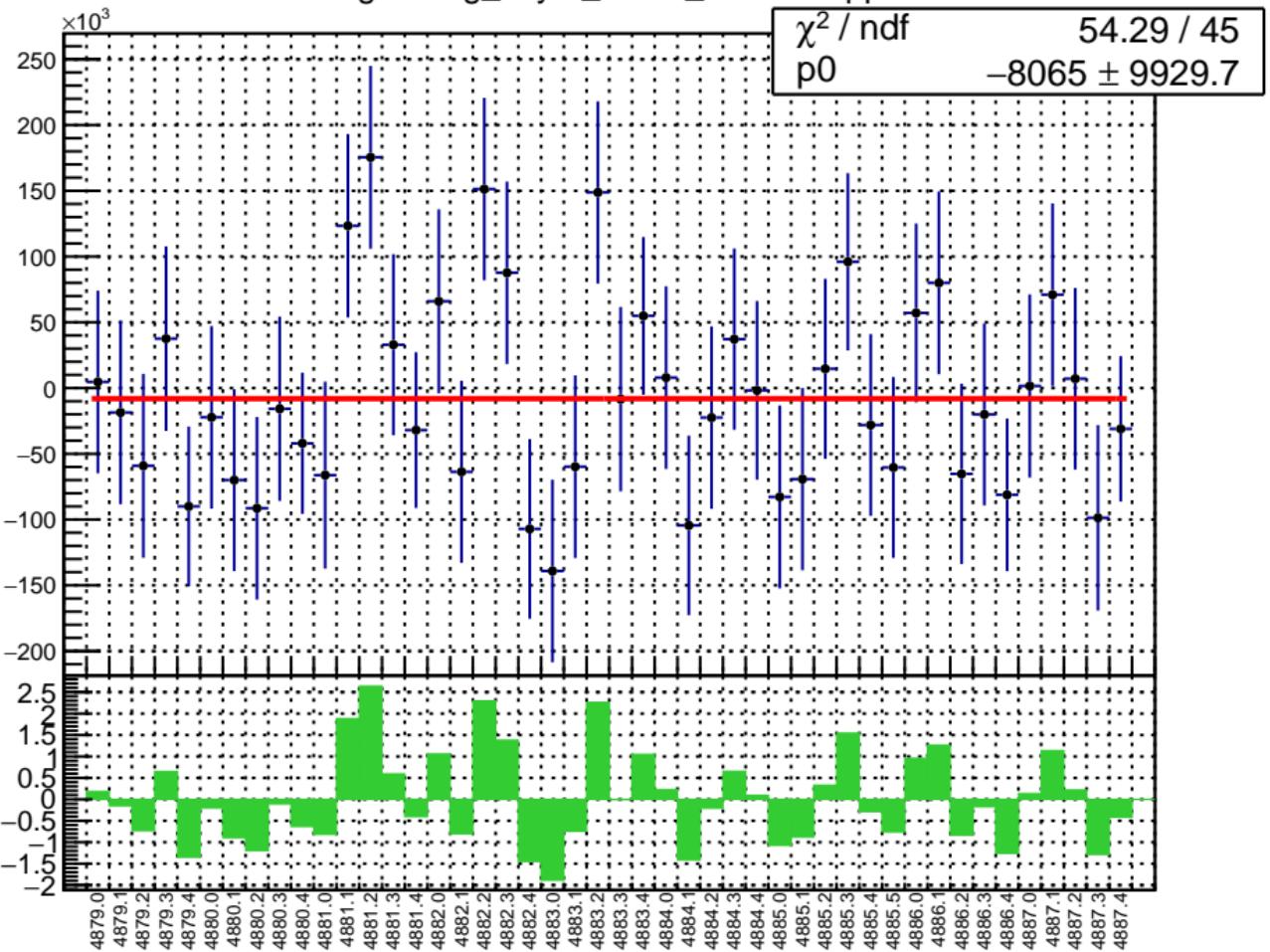
slug89: 1D Corr asym\_atr1l2\_avg.mean/ppb-reg\_asym\_atr1l2\_avg.mean/ppb



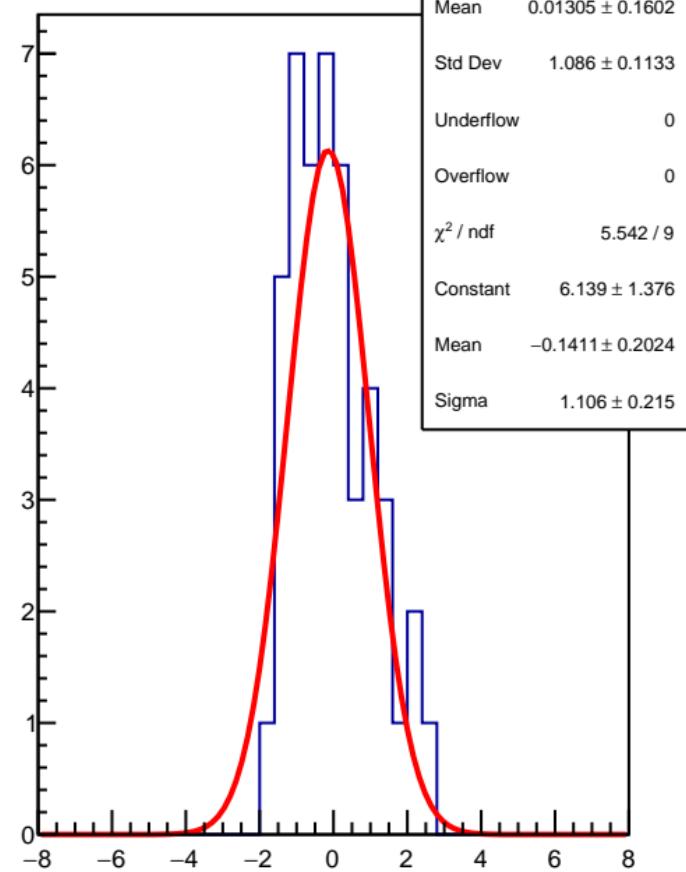
# slug89: reg\_asym\_atr1I2\_avg.rms/ppm

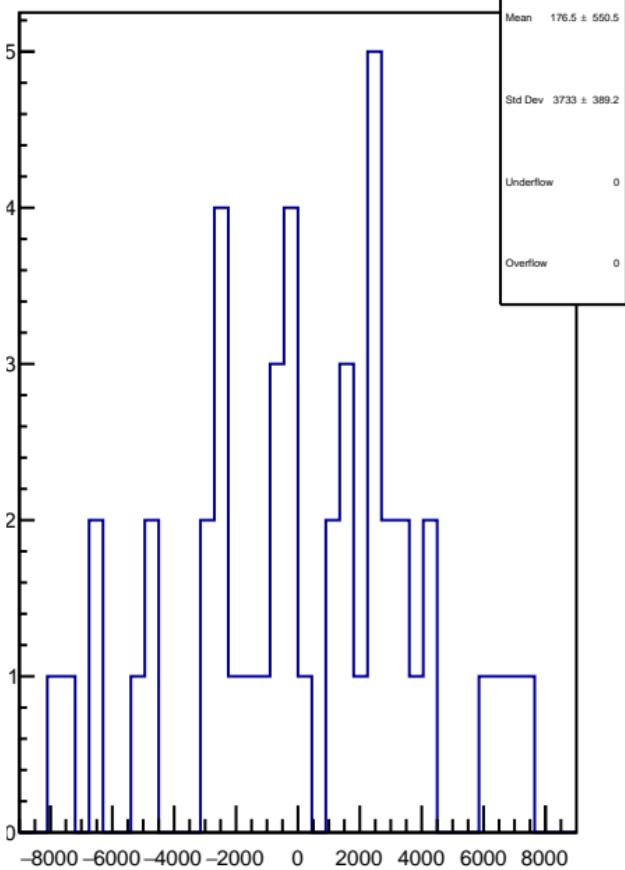
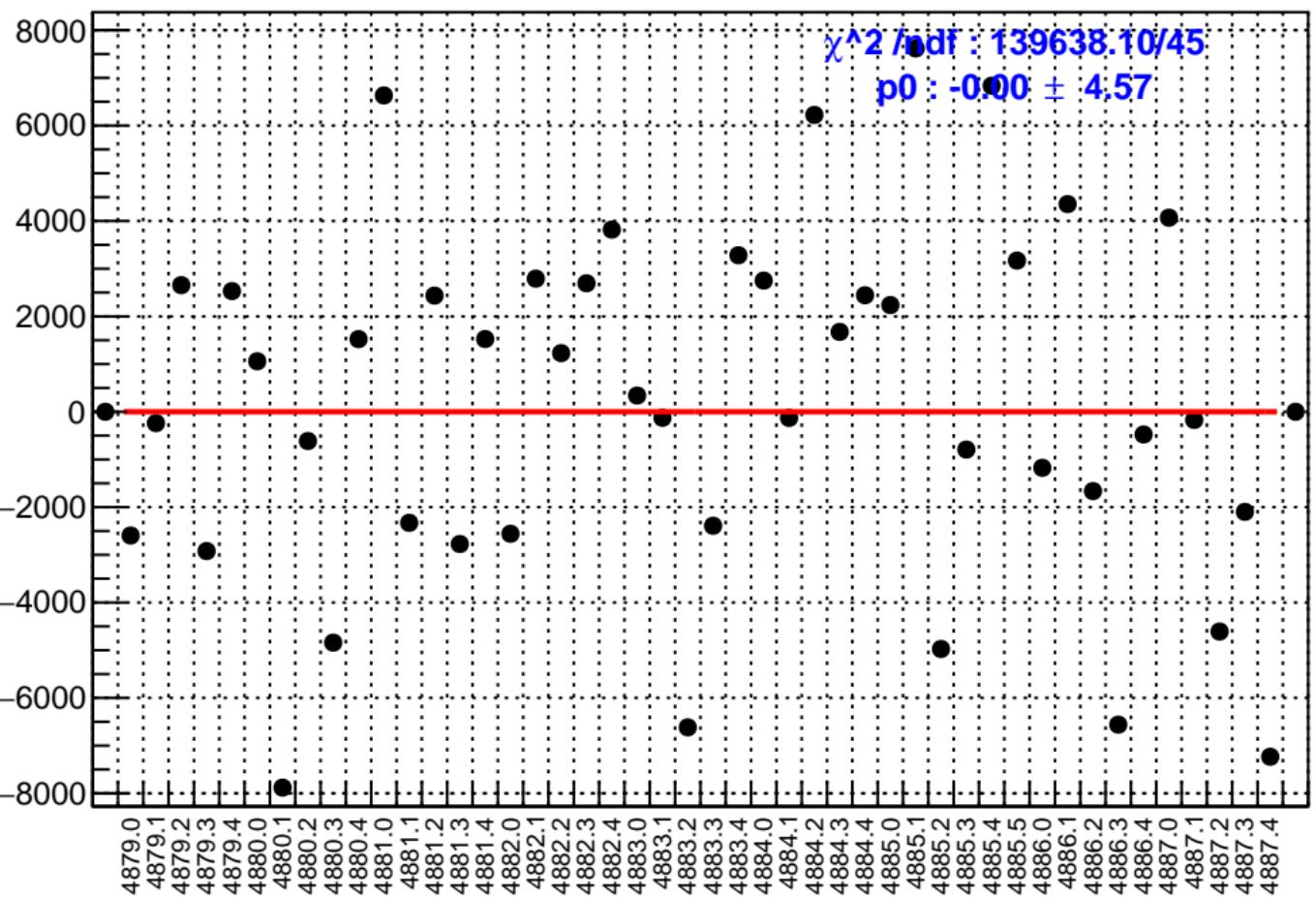


## slug89: reg\_asym\_atr1l2\_dd.mean/ppb

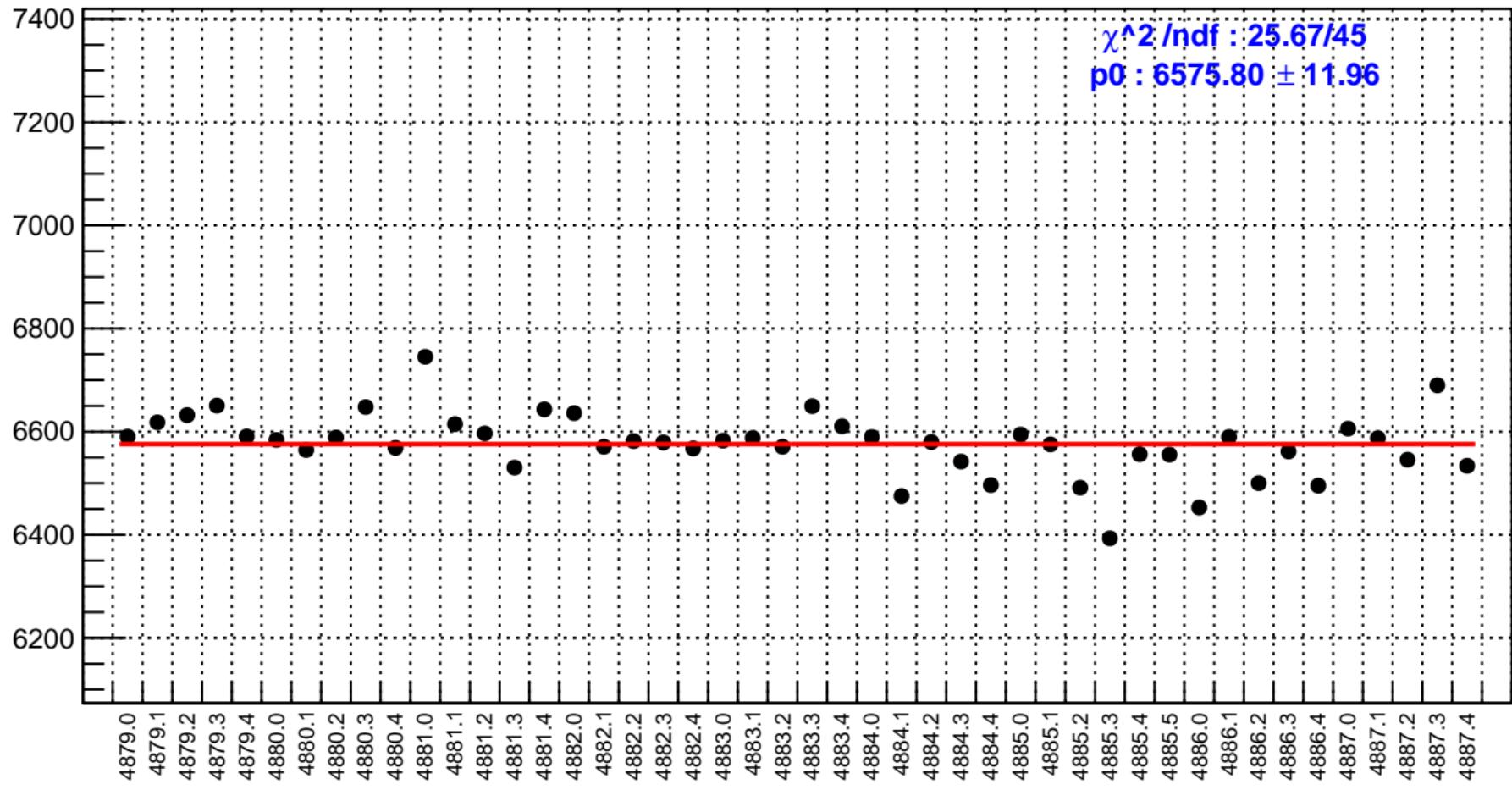


## 1D pull distribution

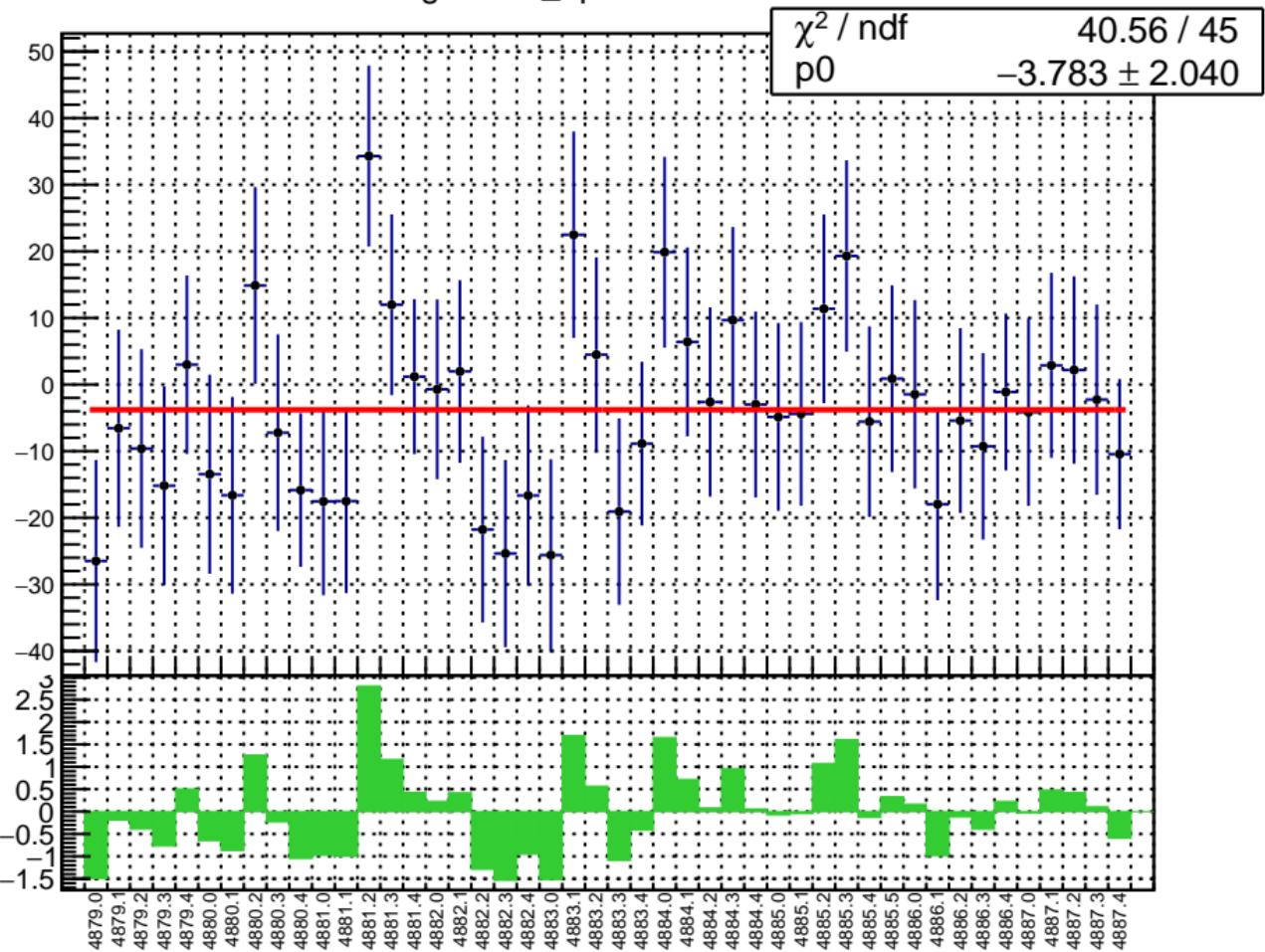




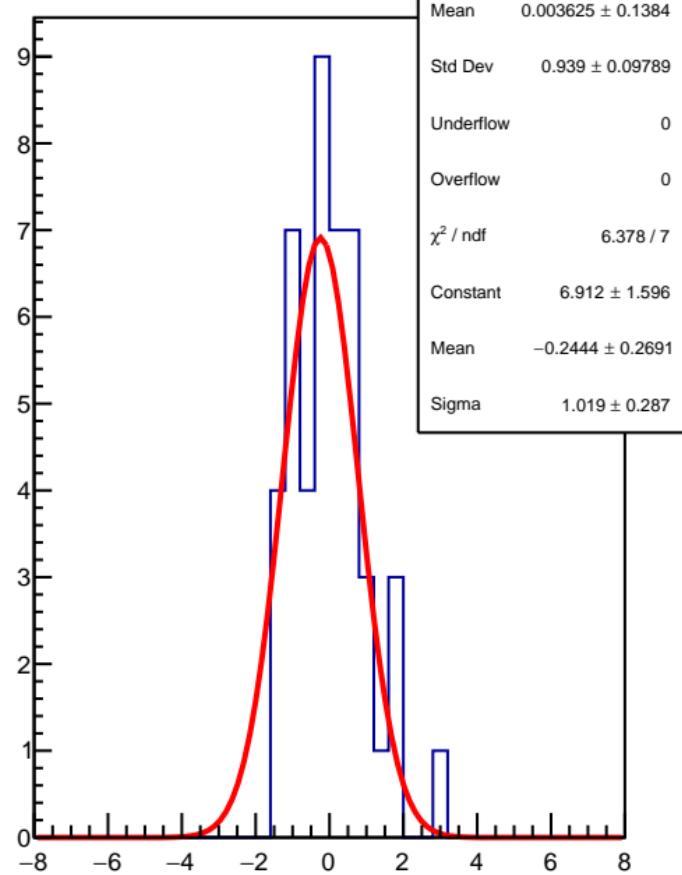
# slug89: reg\_asym\_atr1l2\_dd.rms/ppm



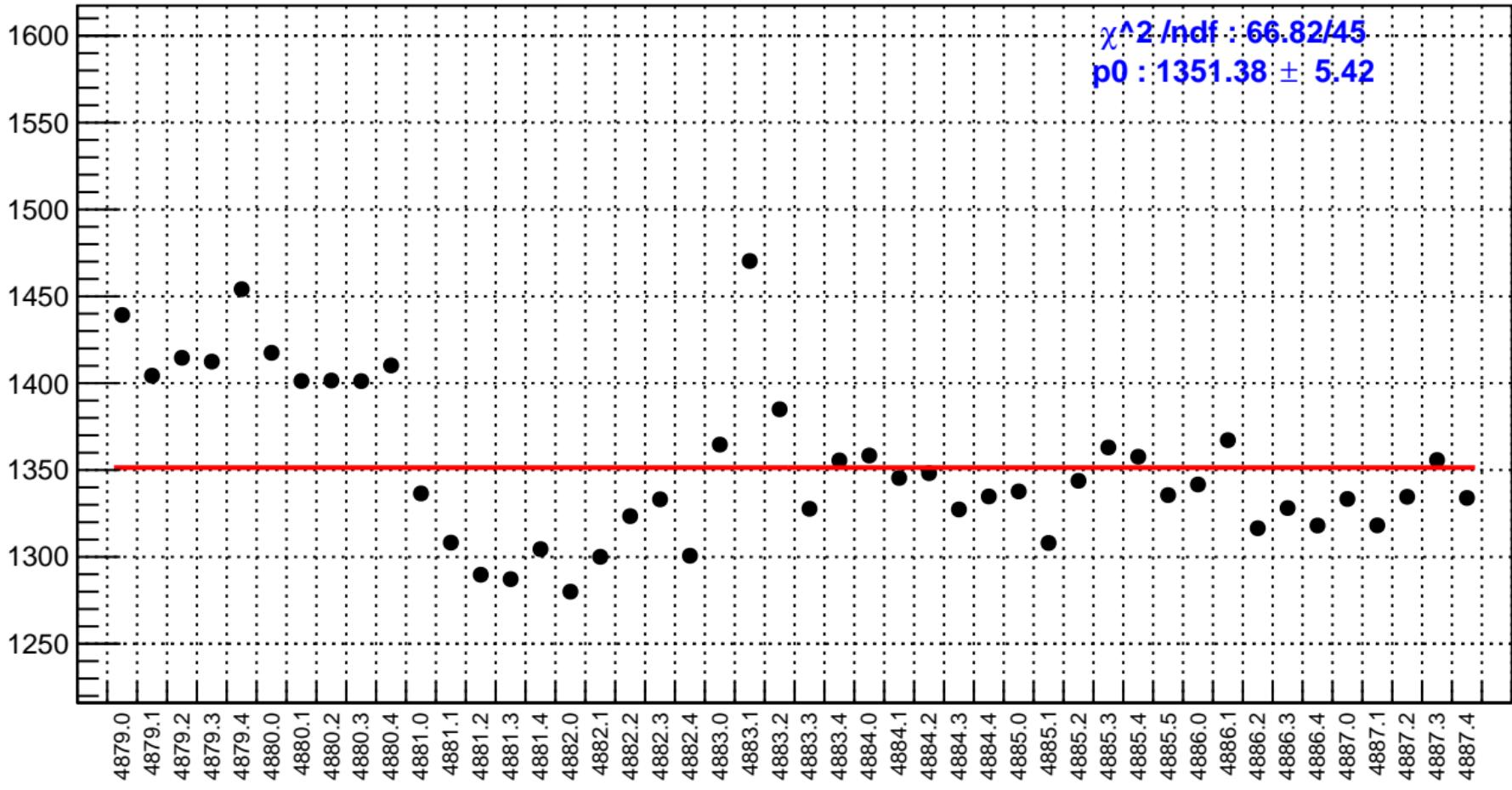
# slug89: diff\_bpm4aX.mean/nm



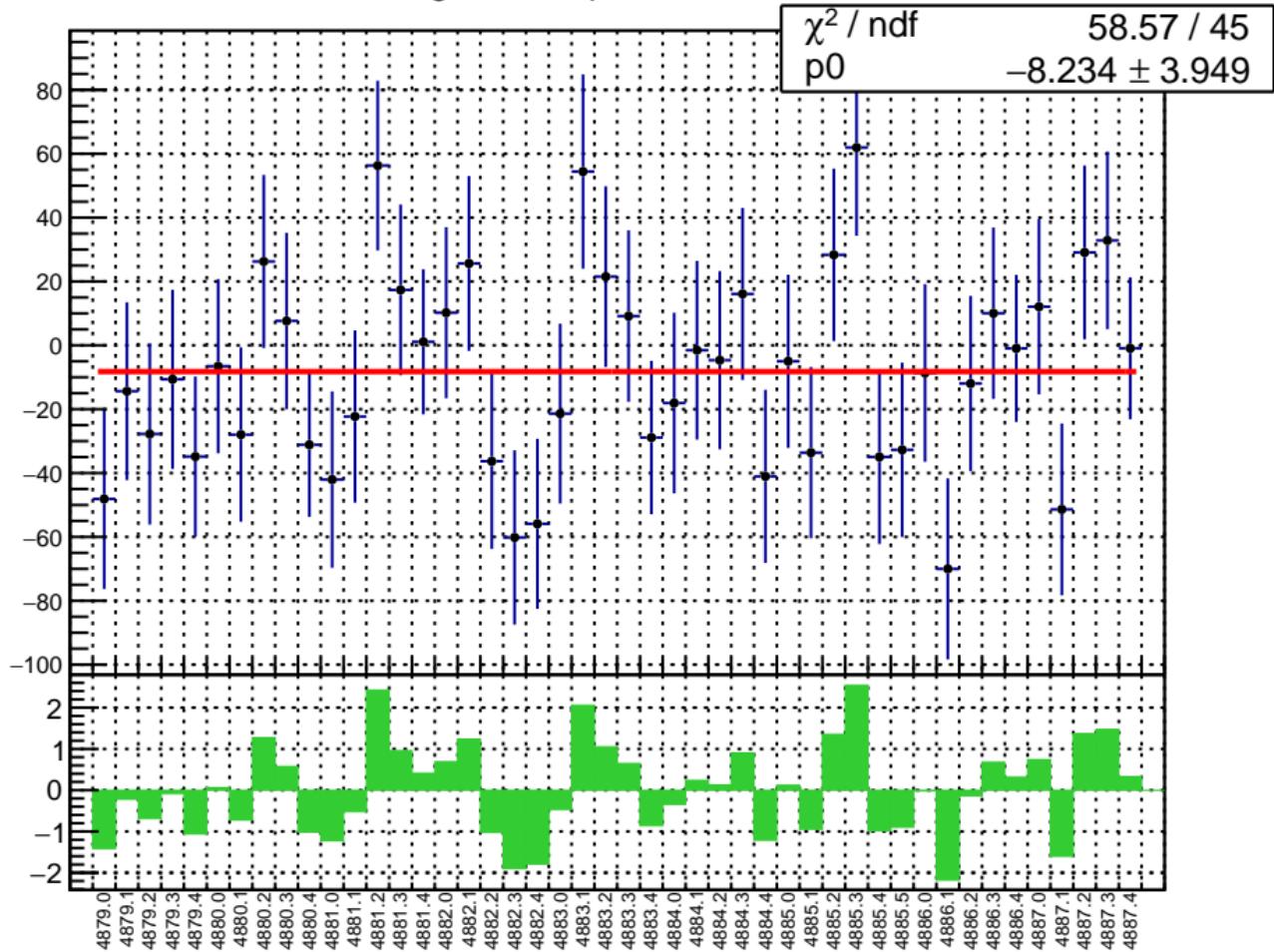
# 1D pull distribution



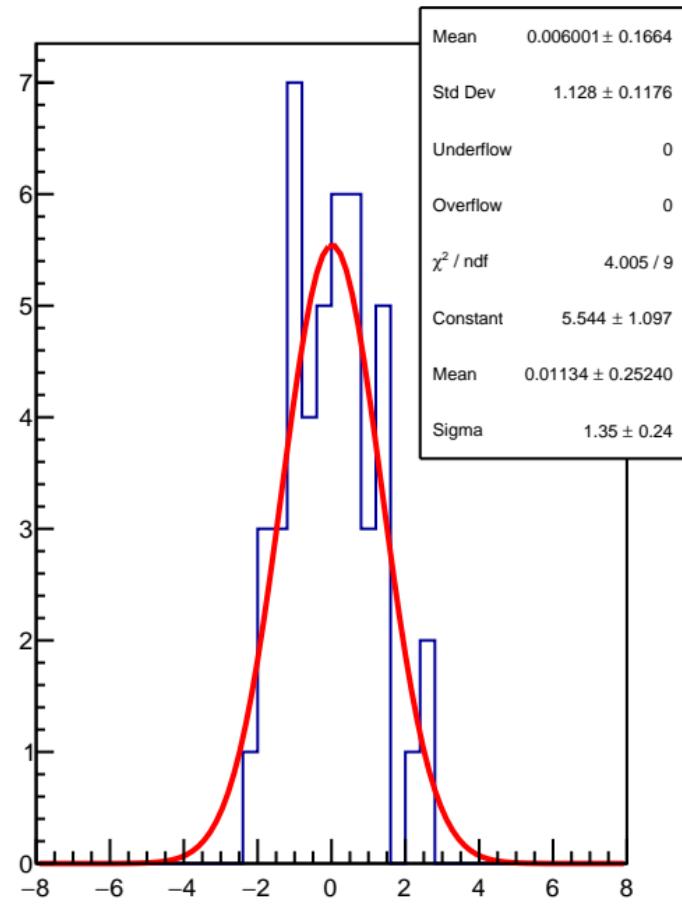
# slug89: diff\_bpm4aX.rms/nm



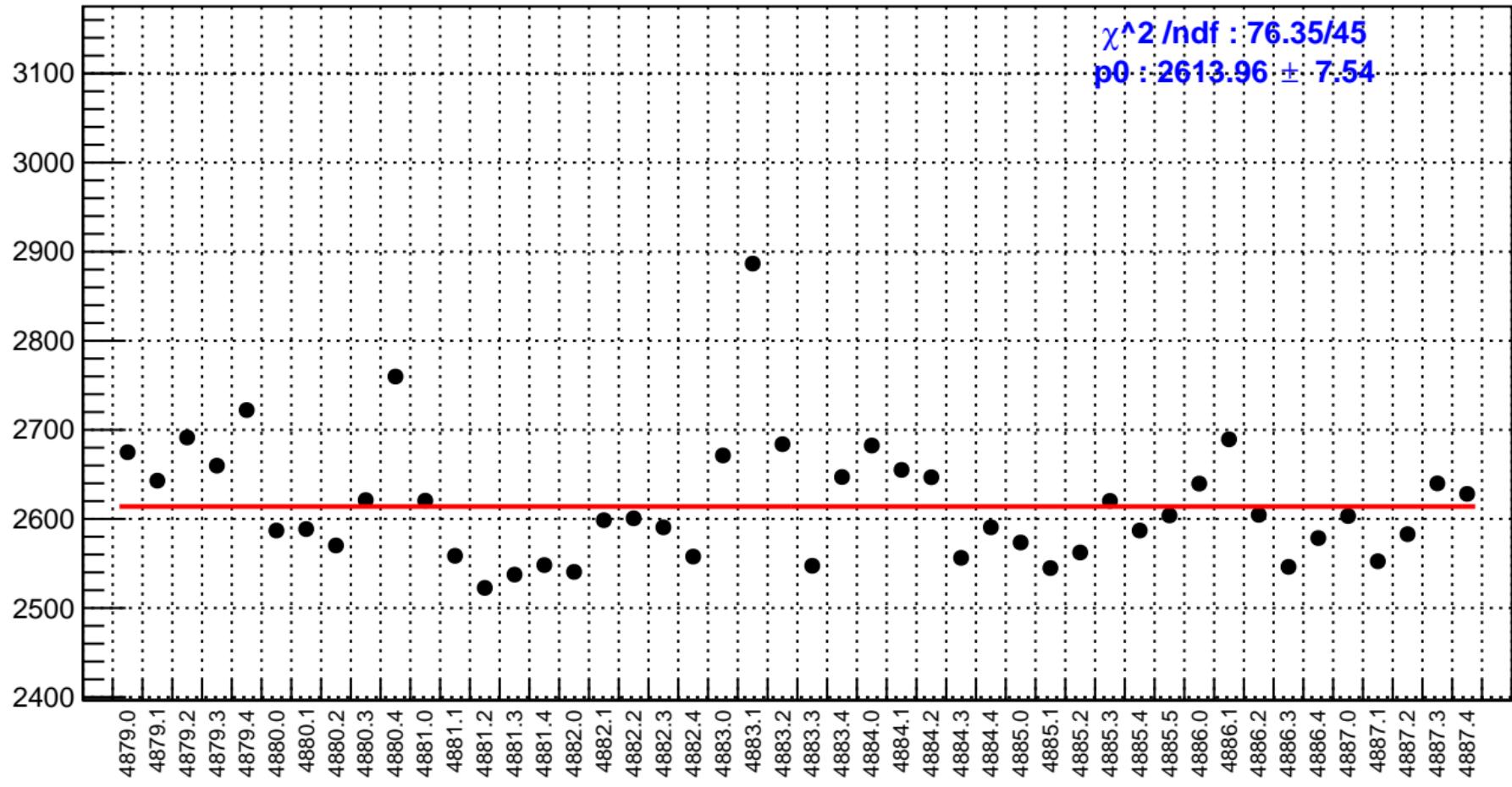
slug89: diff\_bpm4aY.mean/nm



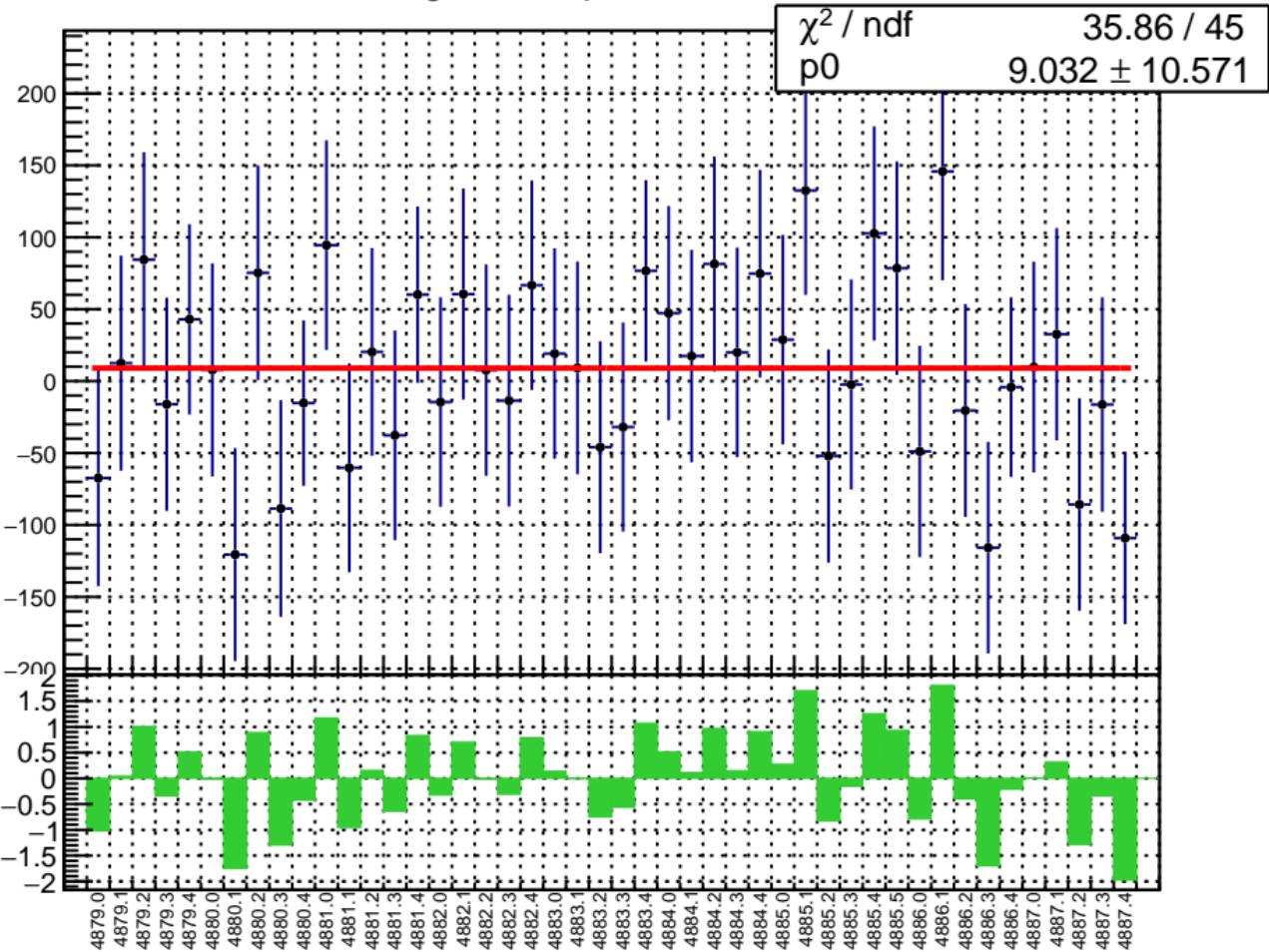
1D pull distribution



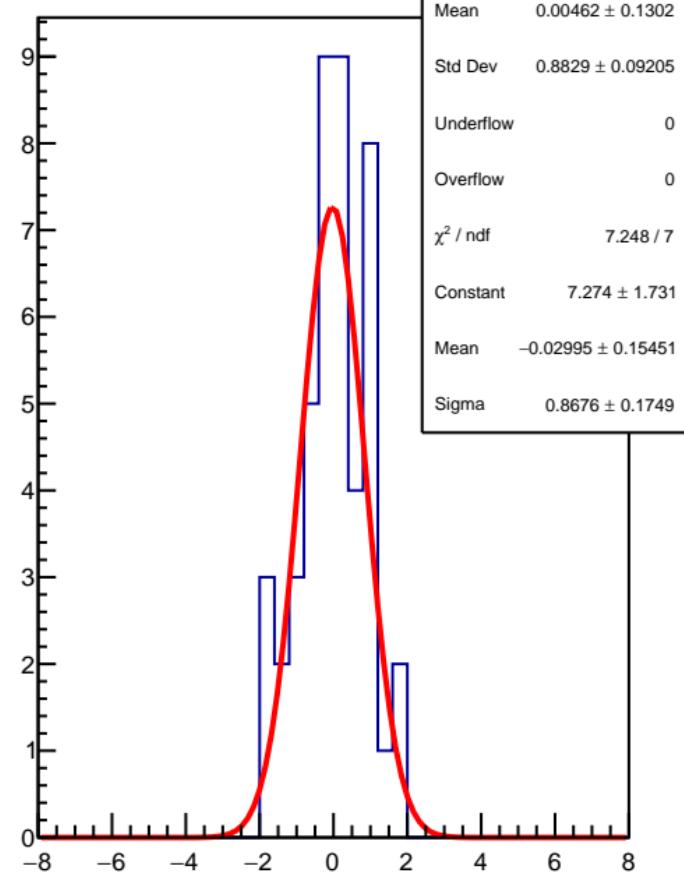
# slug89: diff\_bpm4aY.rms/nm



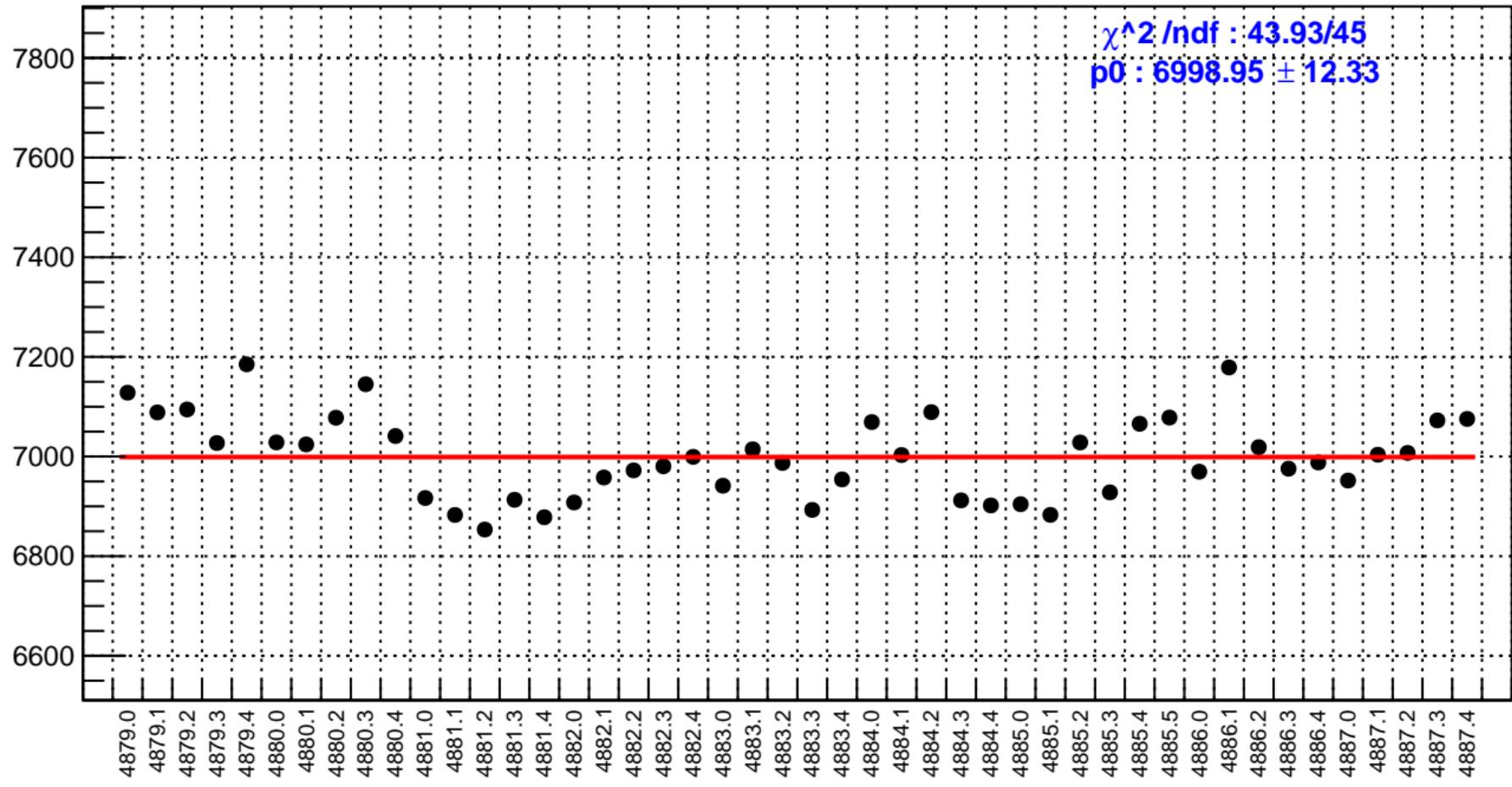
# slug89: diff\_bpm4eX.mean/nm



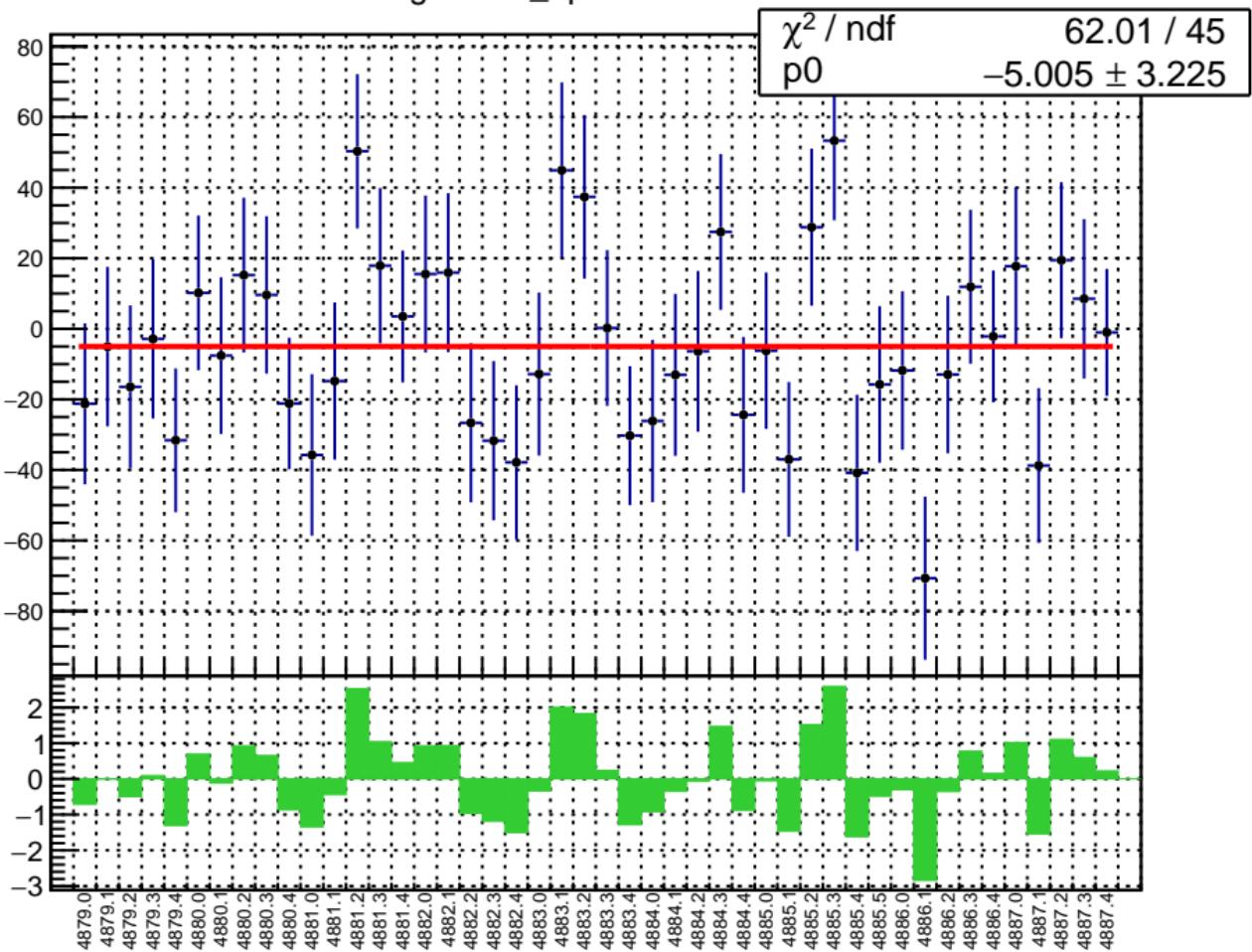
# 1D pull distribution



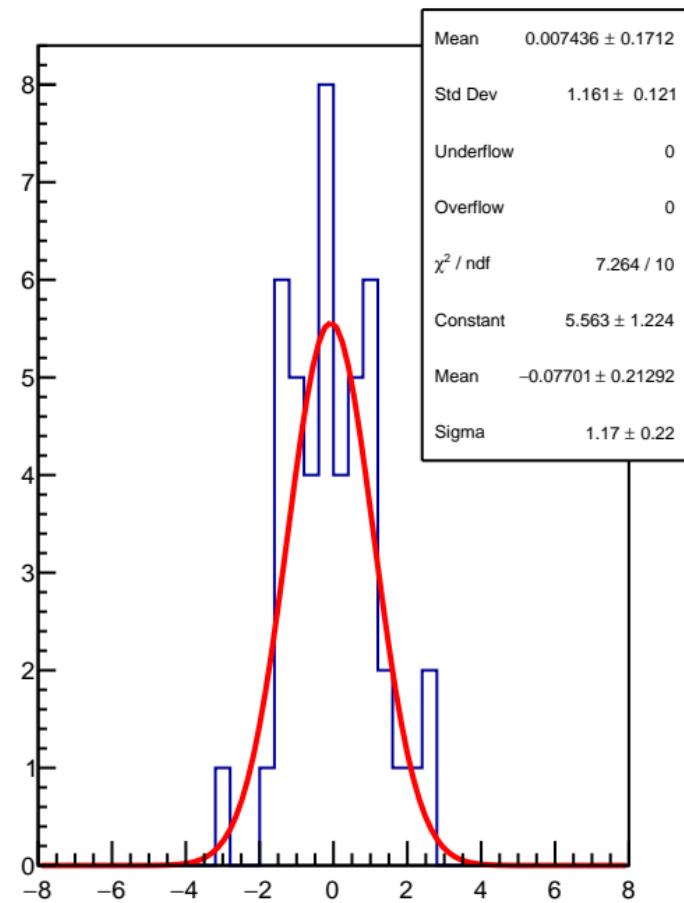
# slug89: diff\_bpm4eX.rms/nm



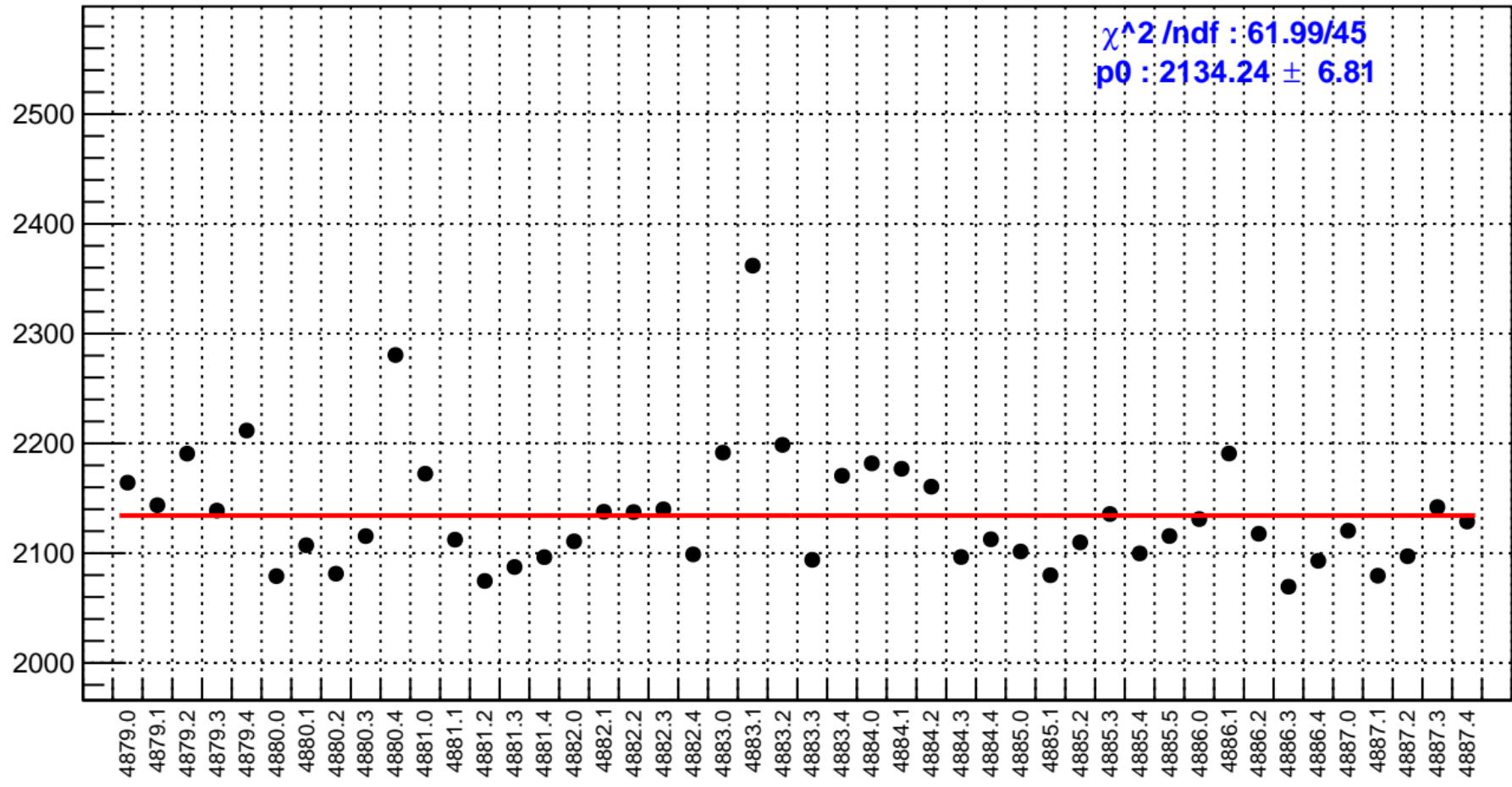
slug89: diff\_bpm4eY.mean/nm



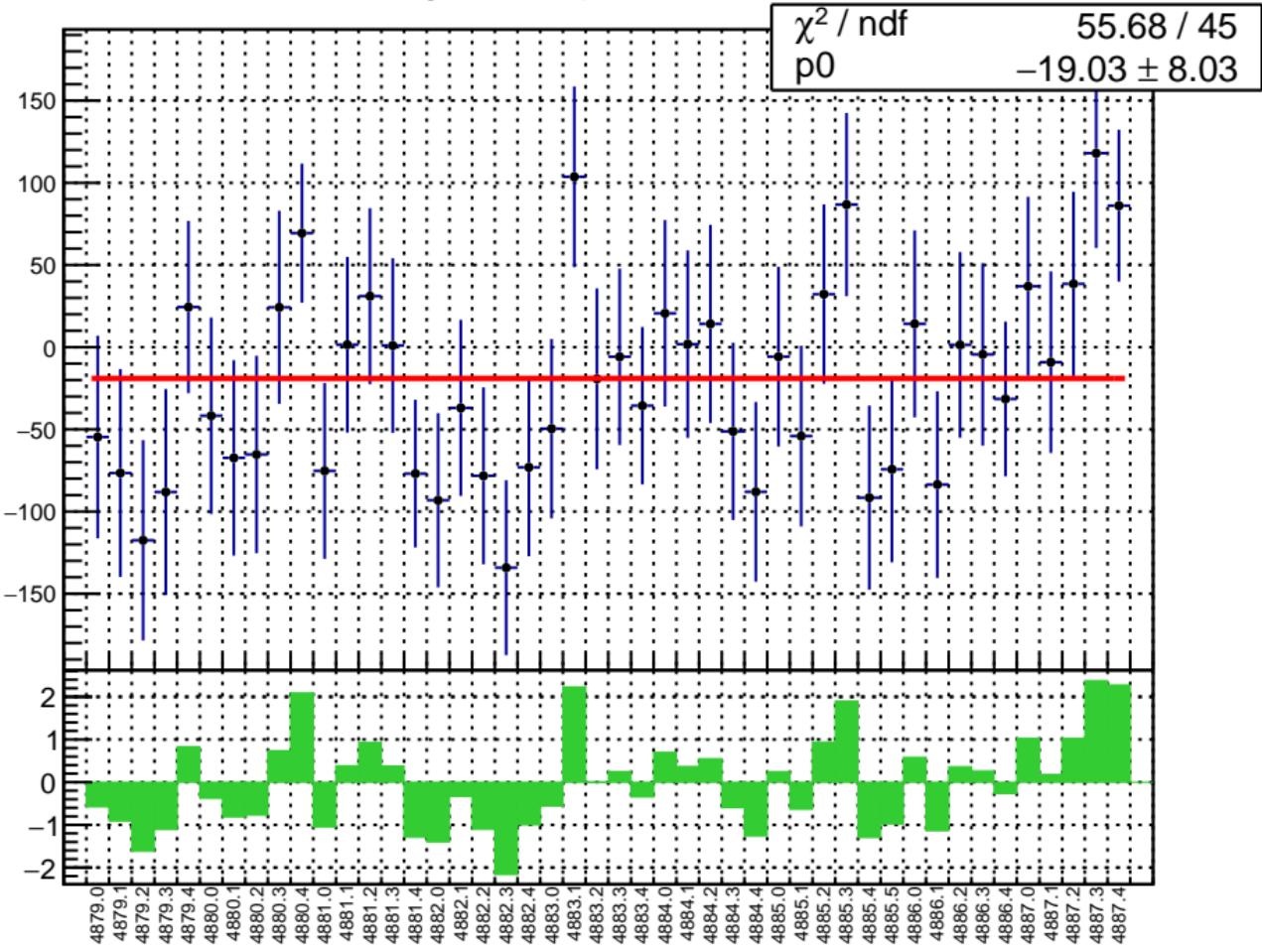
1D pull distribution



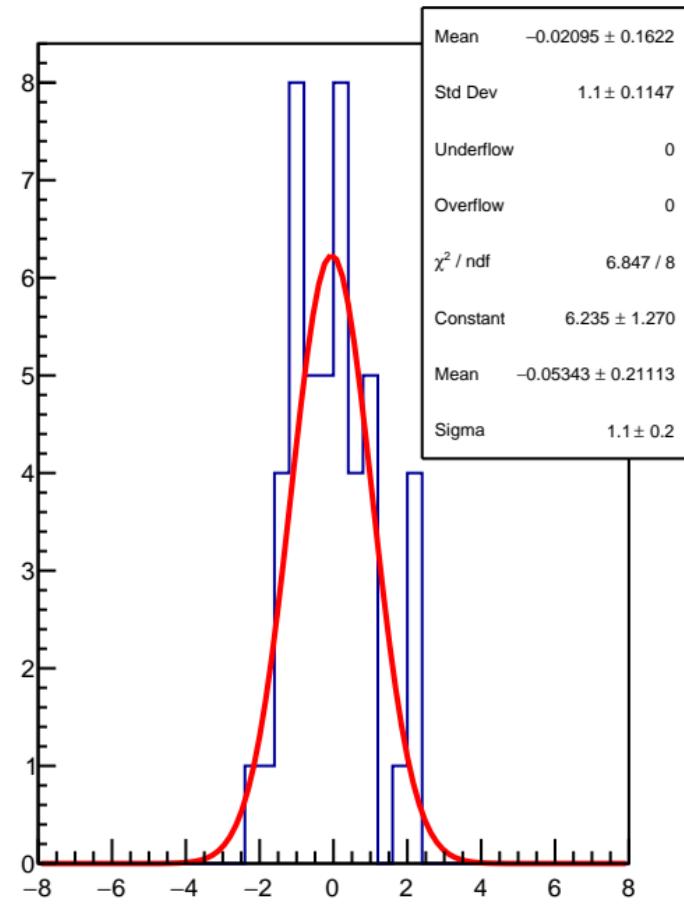
# slug89: diff\_bpm4eY.rms/nm



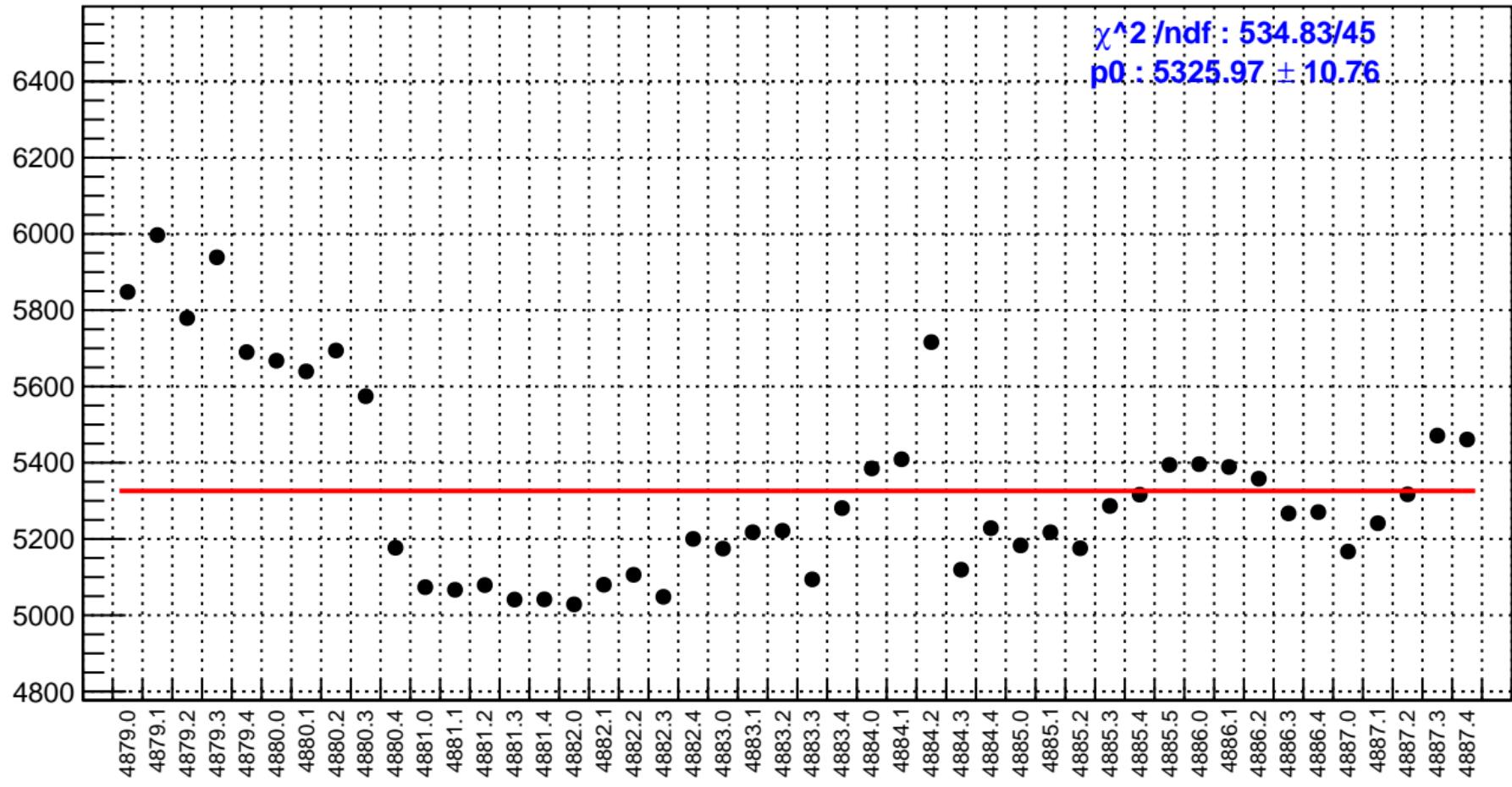
slug89: diff\_bpm11X.mean/nm



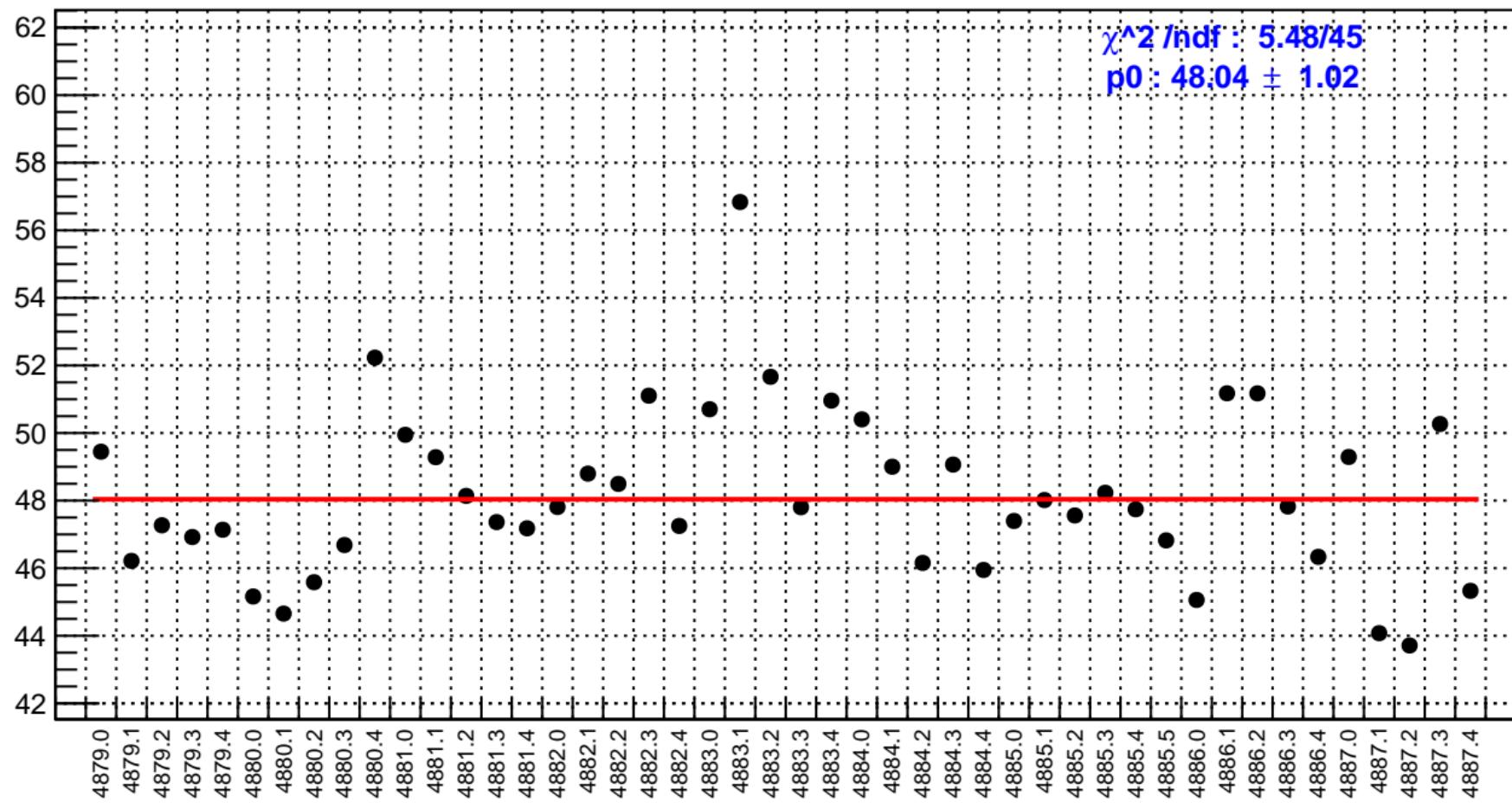
1D pull distribution



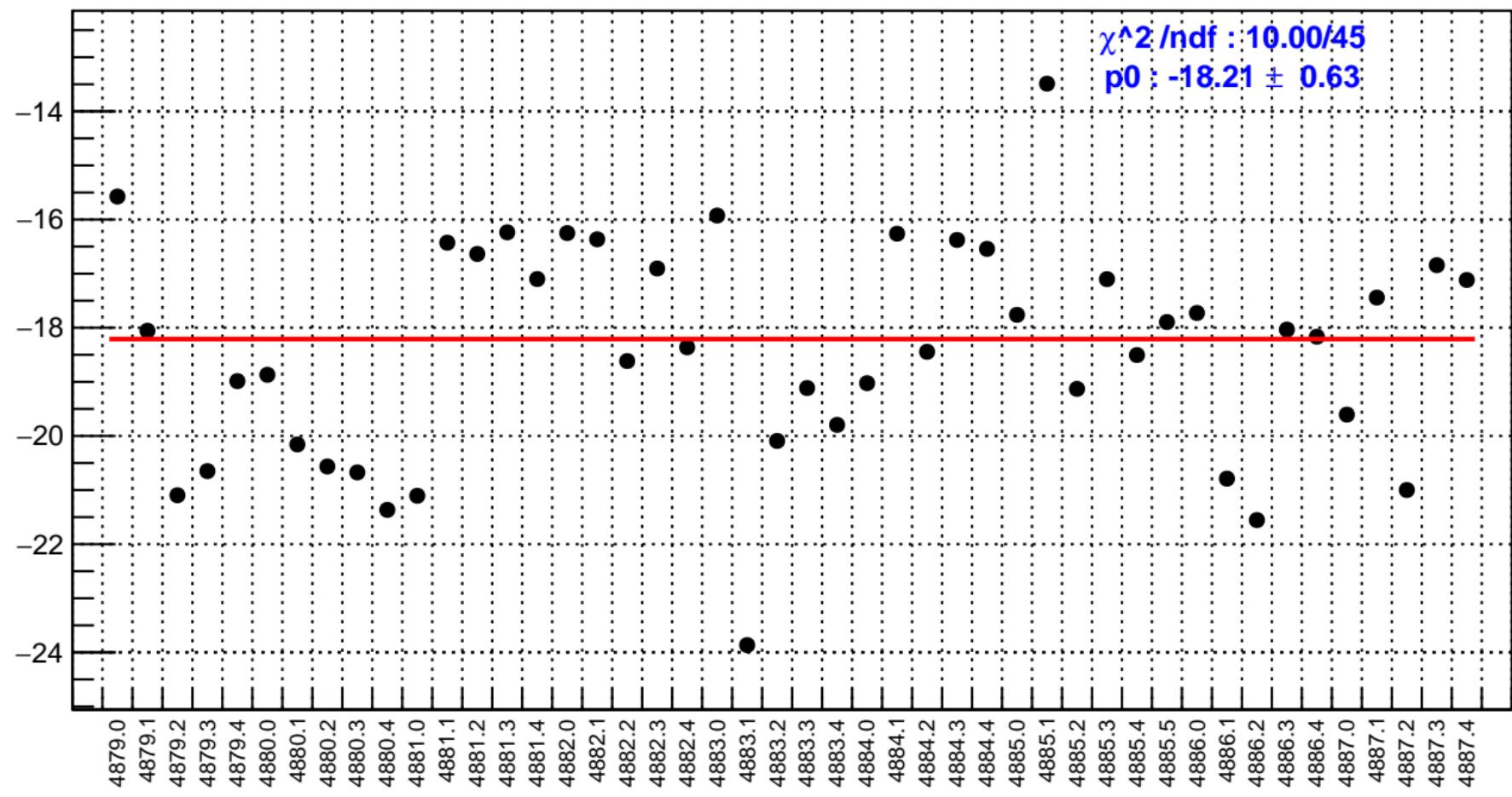
# slug89: diff\_bpm11X.rms/nm



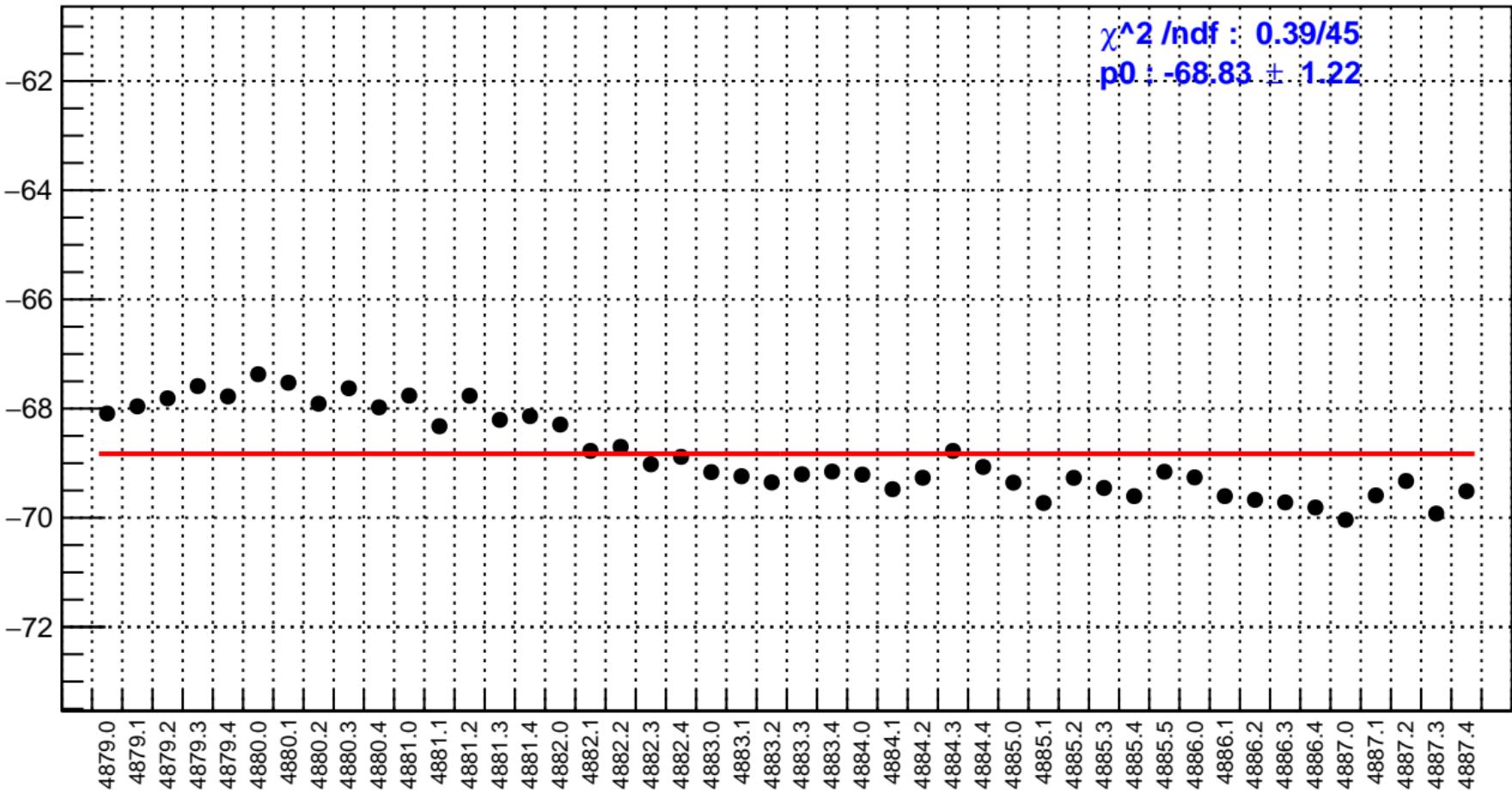
# slug89: usl\_bpm4aX/(ppb/nm)



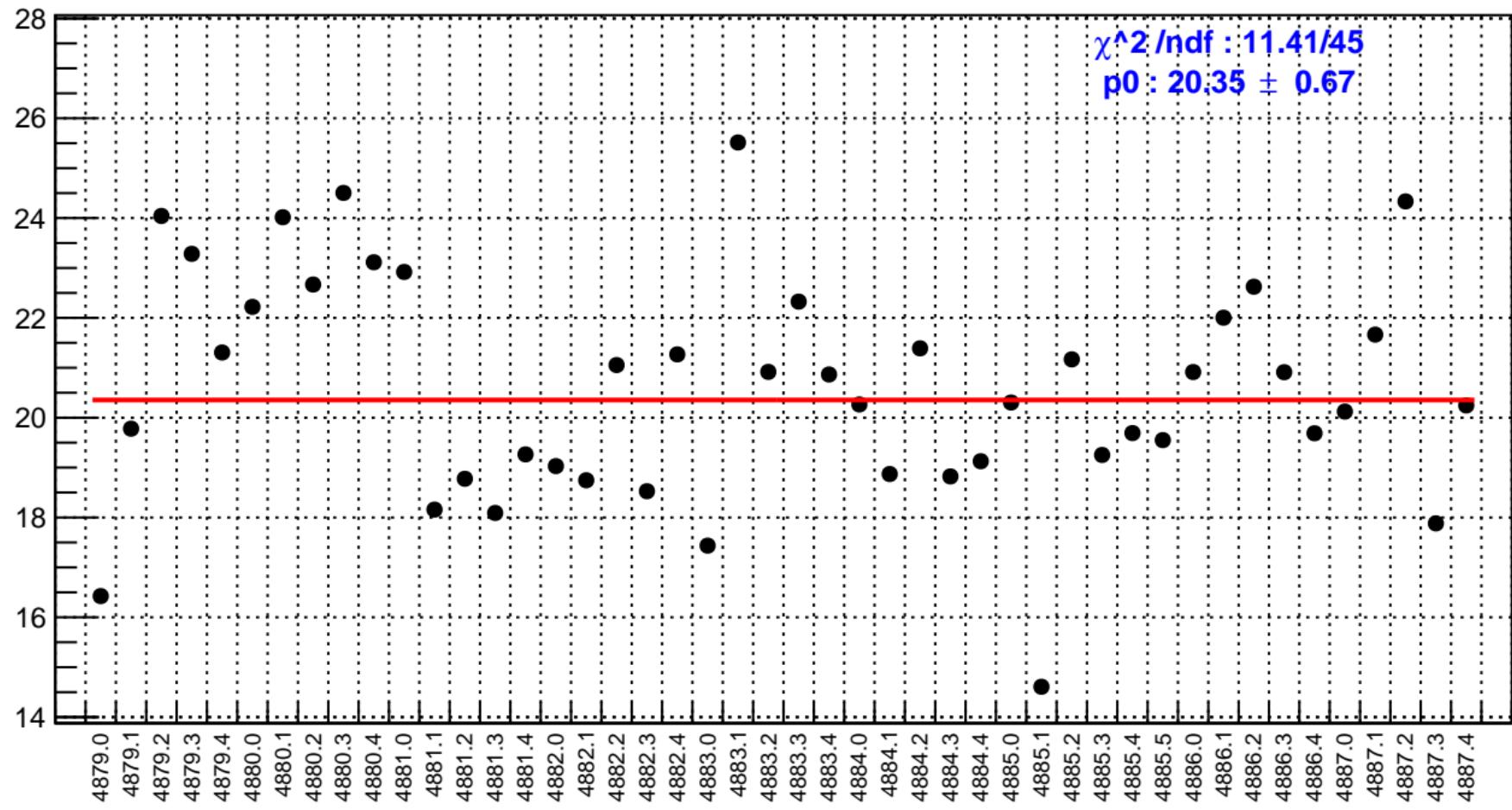
# slug89: usl\_bpm4aY/(ppb/nm)



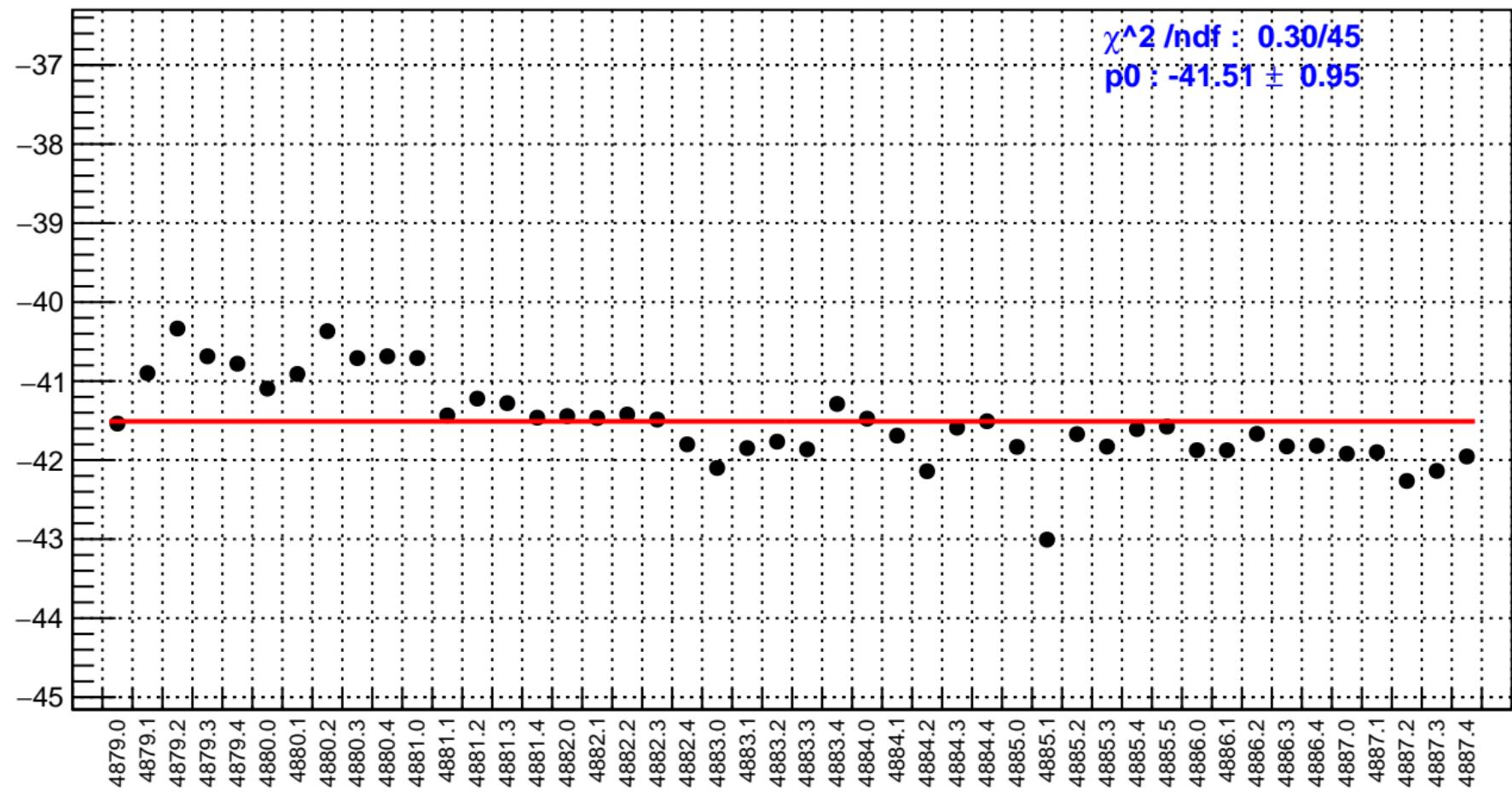
# slug89: usl\_bpm4eX/(ppb/nm)



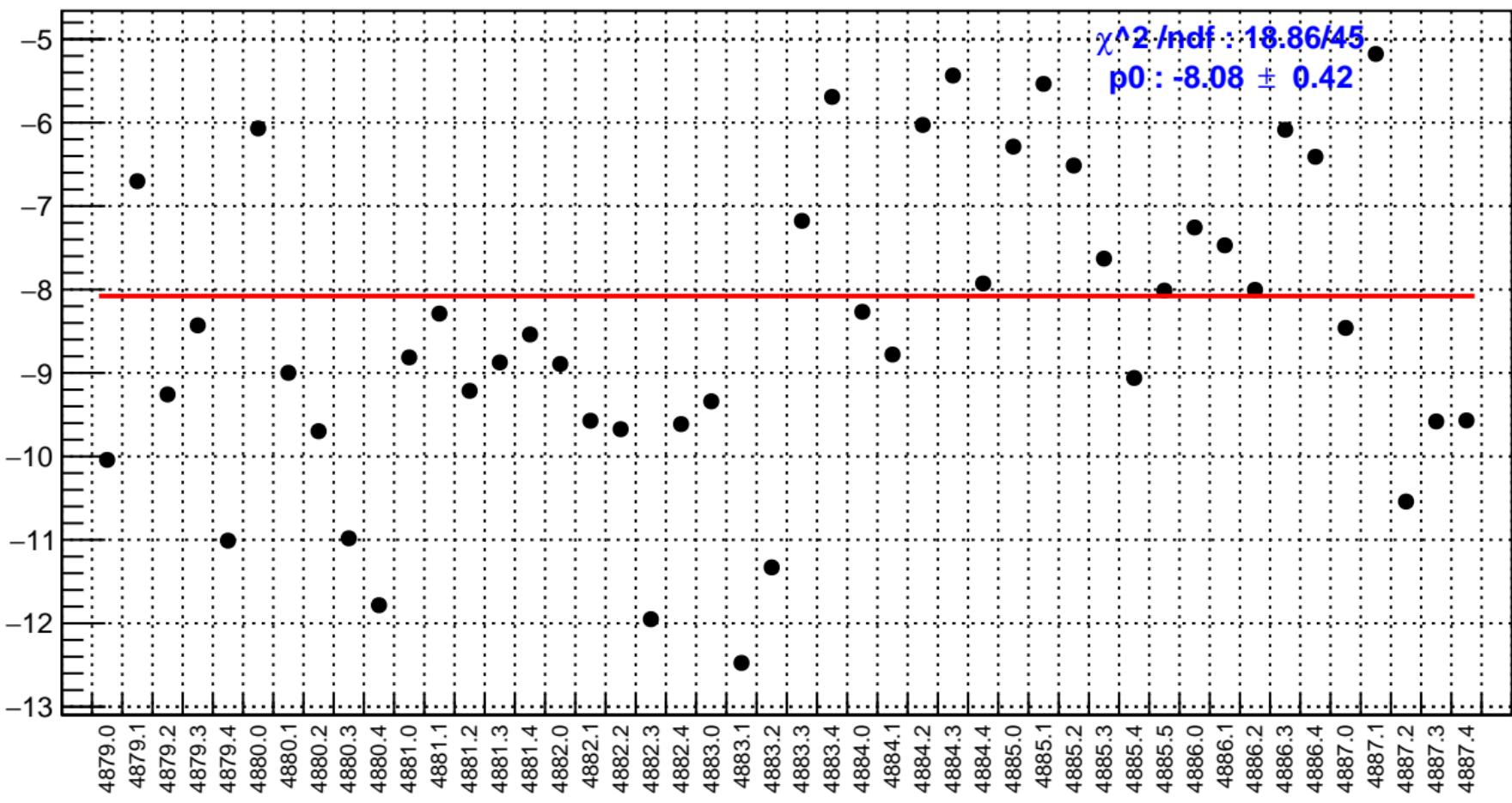
# slug89: usl\_bpm4eY/(ppb/nm)



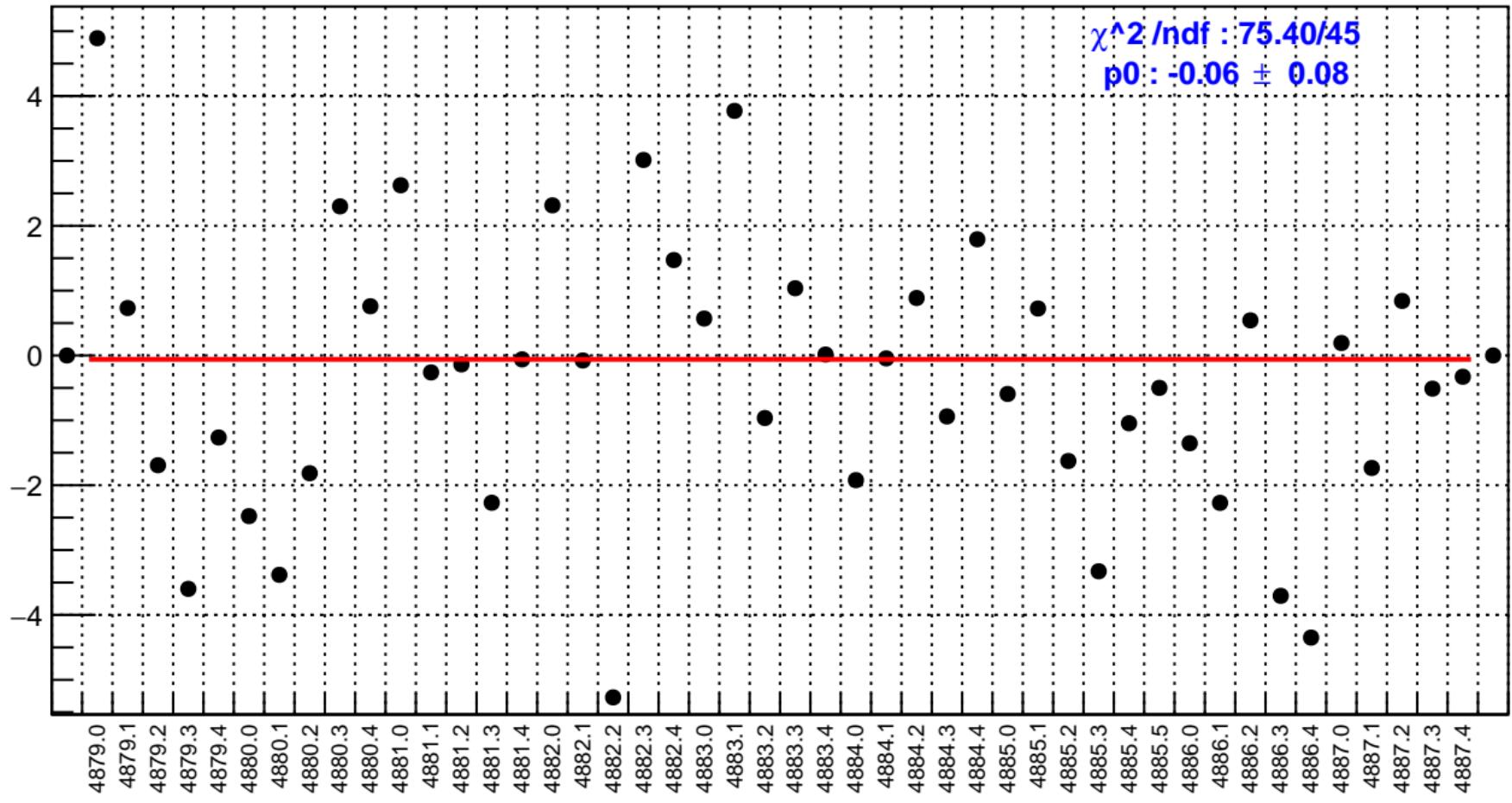
# slug89: usl\_bpm12X/(ppb/nm)



# slug89: usr\_bpm4aX/(ppb/nm)

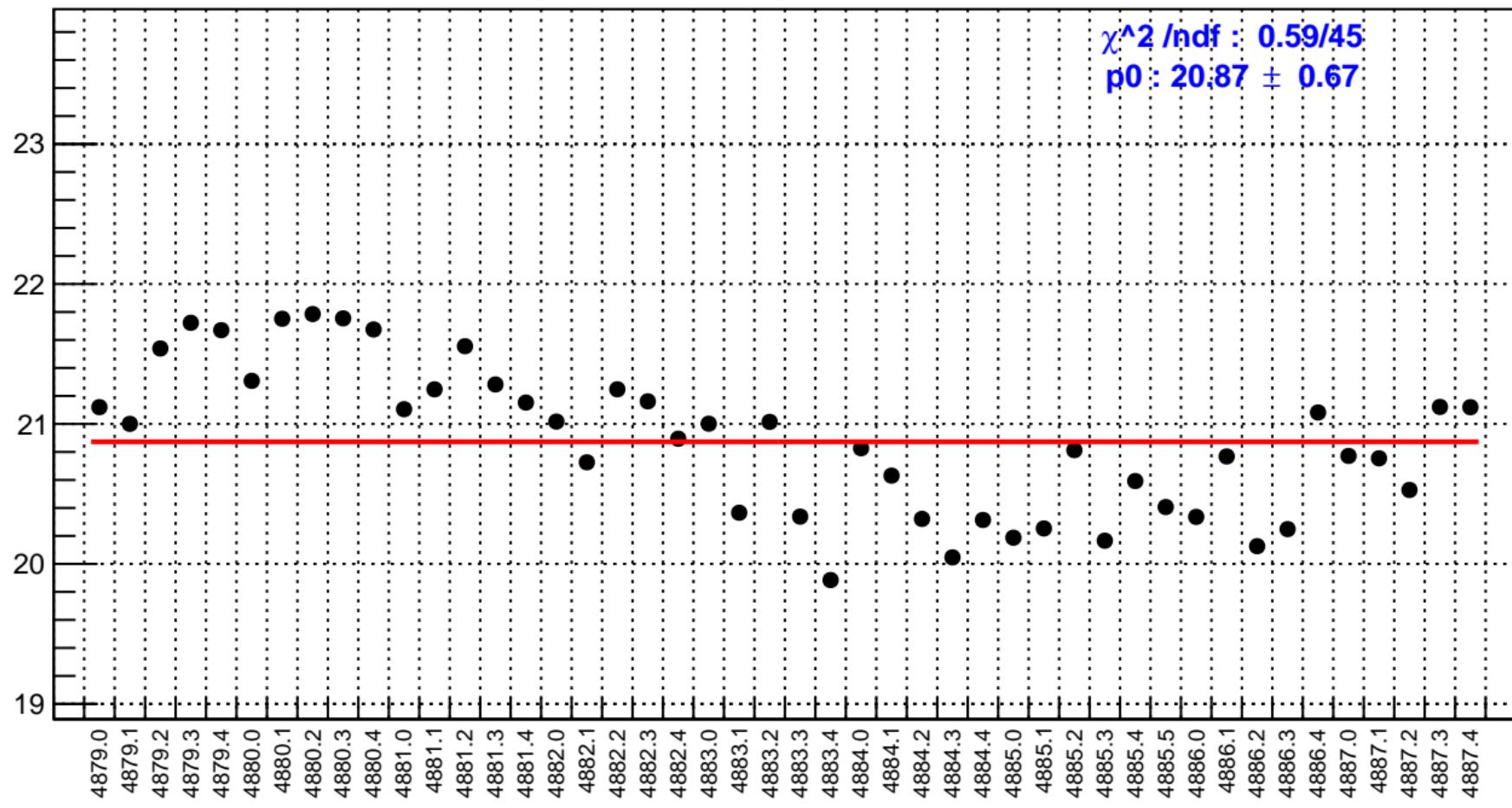


# slug89: usr\_bpm4aY/(ppb/nm)

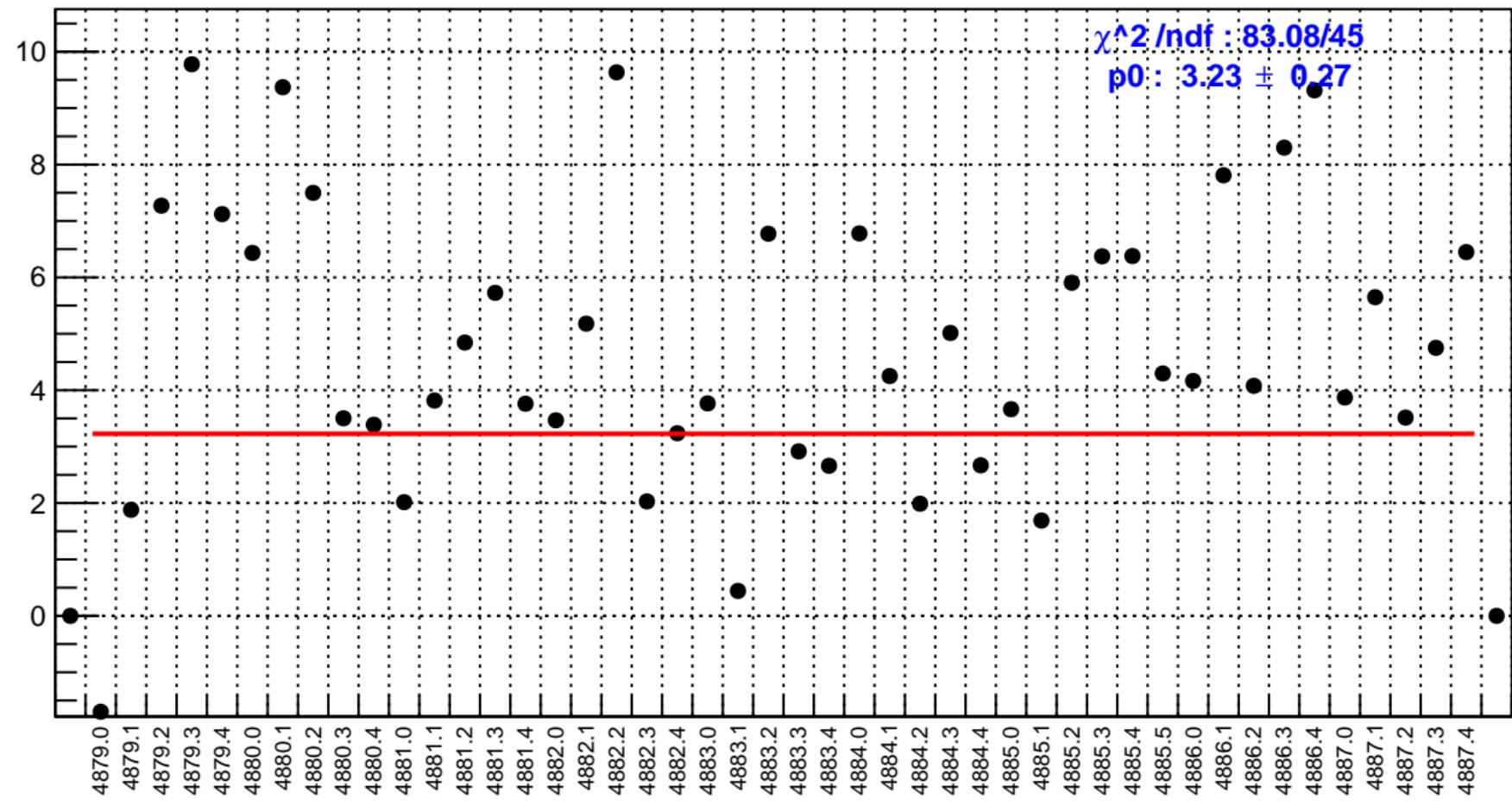


# slug89: usr\_bpm4eX/(ppb/nm)

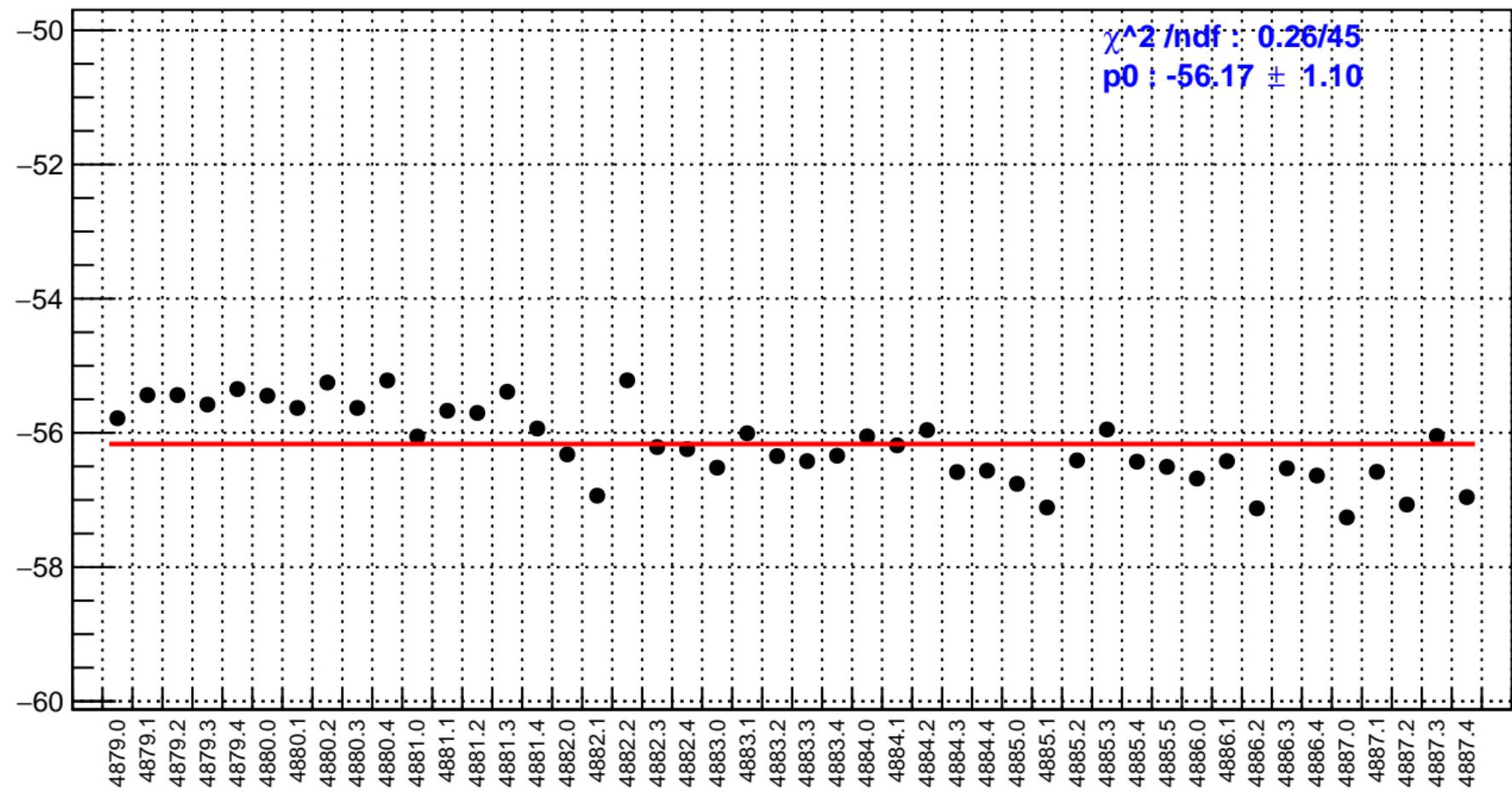
$\chi^2 / \text{ndf} : 0.59/45$   
 $p_0 : 20.87 \pm 0.67$



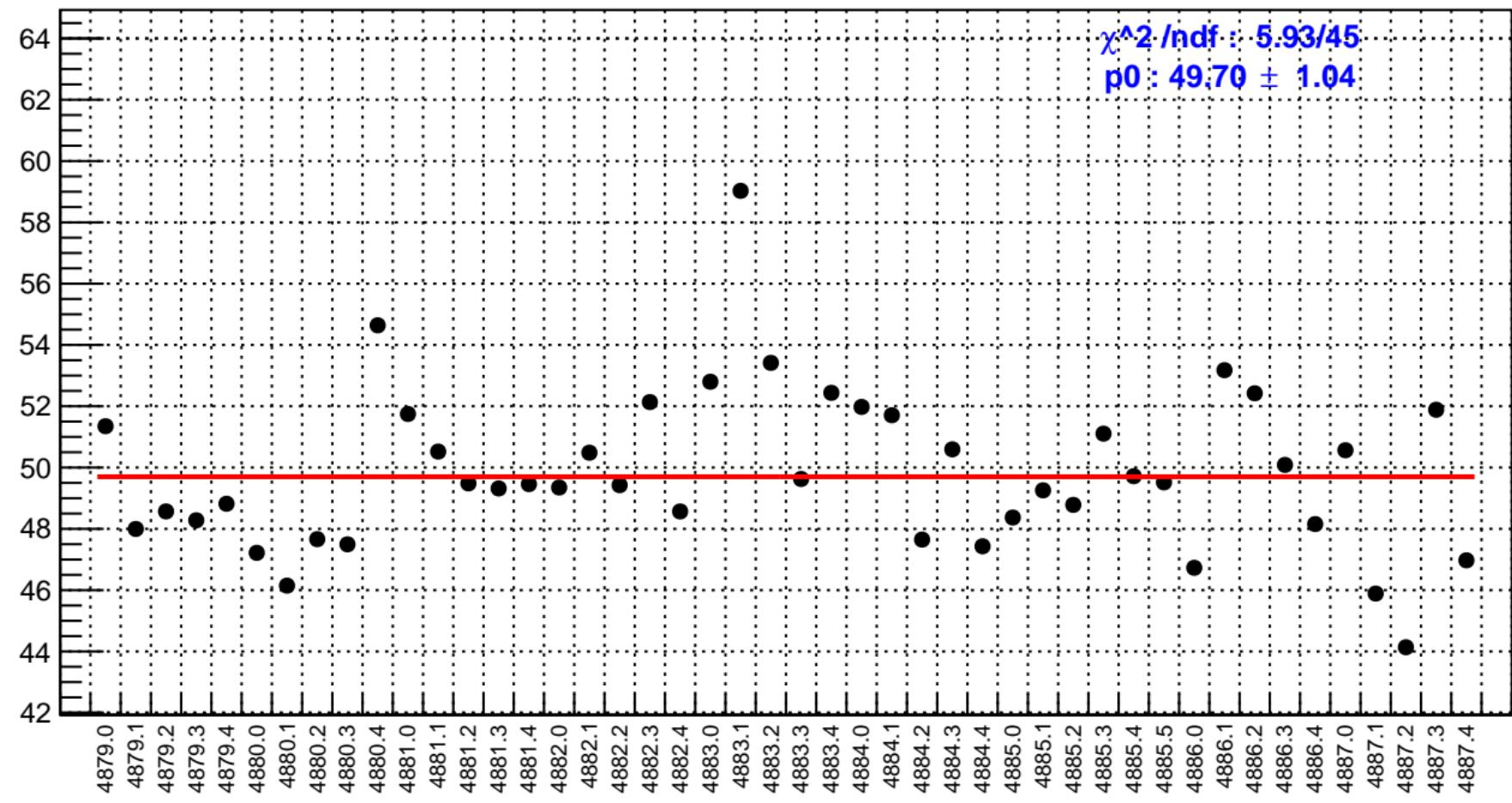
# slug89: usr\_bpm4eY/(ppb/nm)



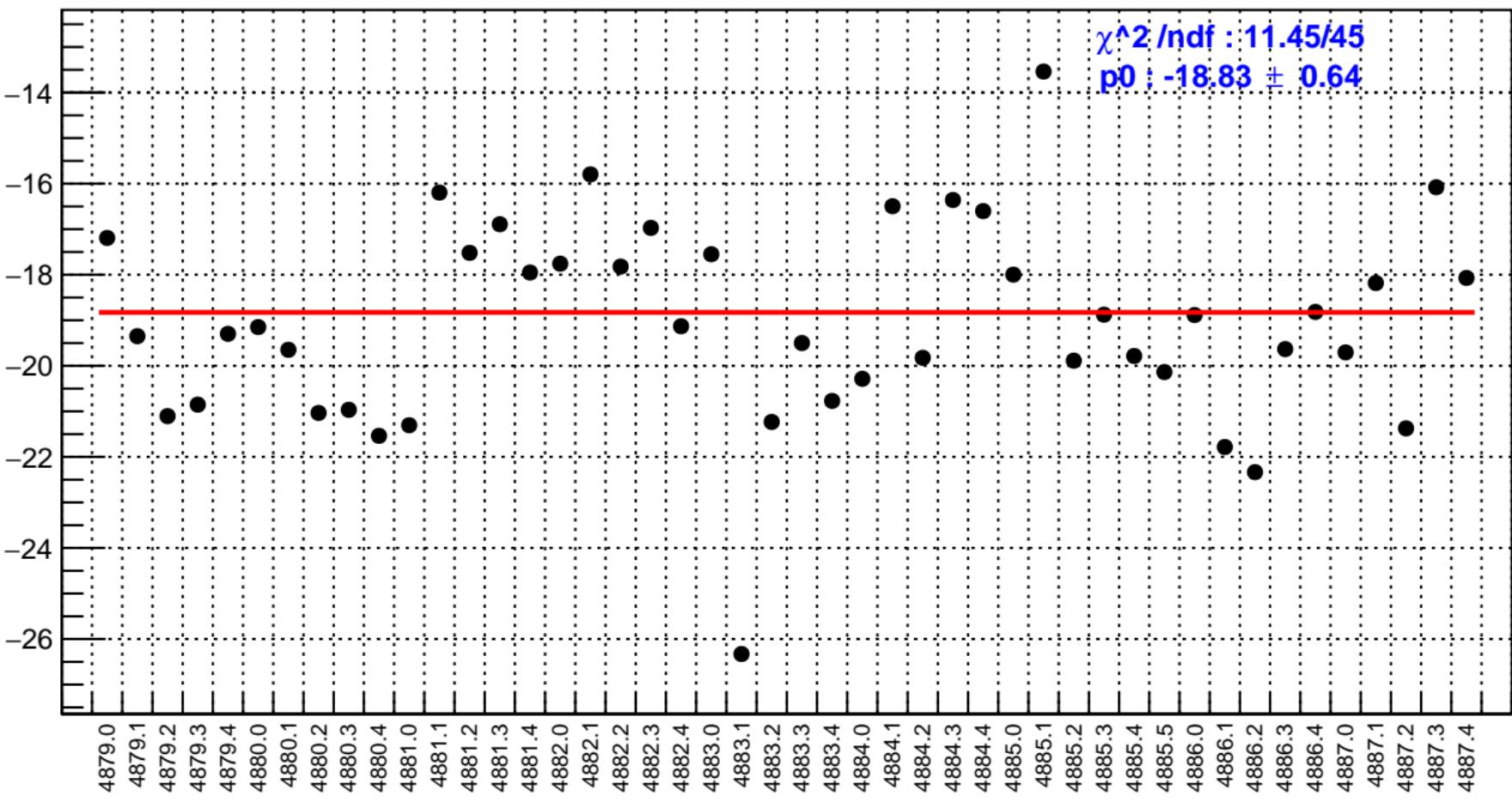
# slug89: usr\_bpm12X/(ppb/nm)



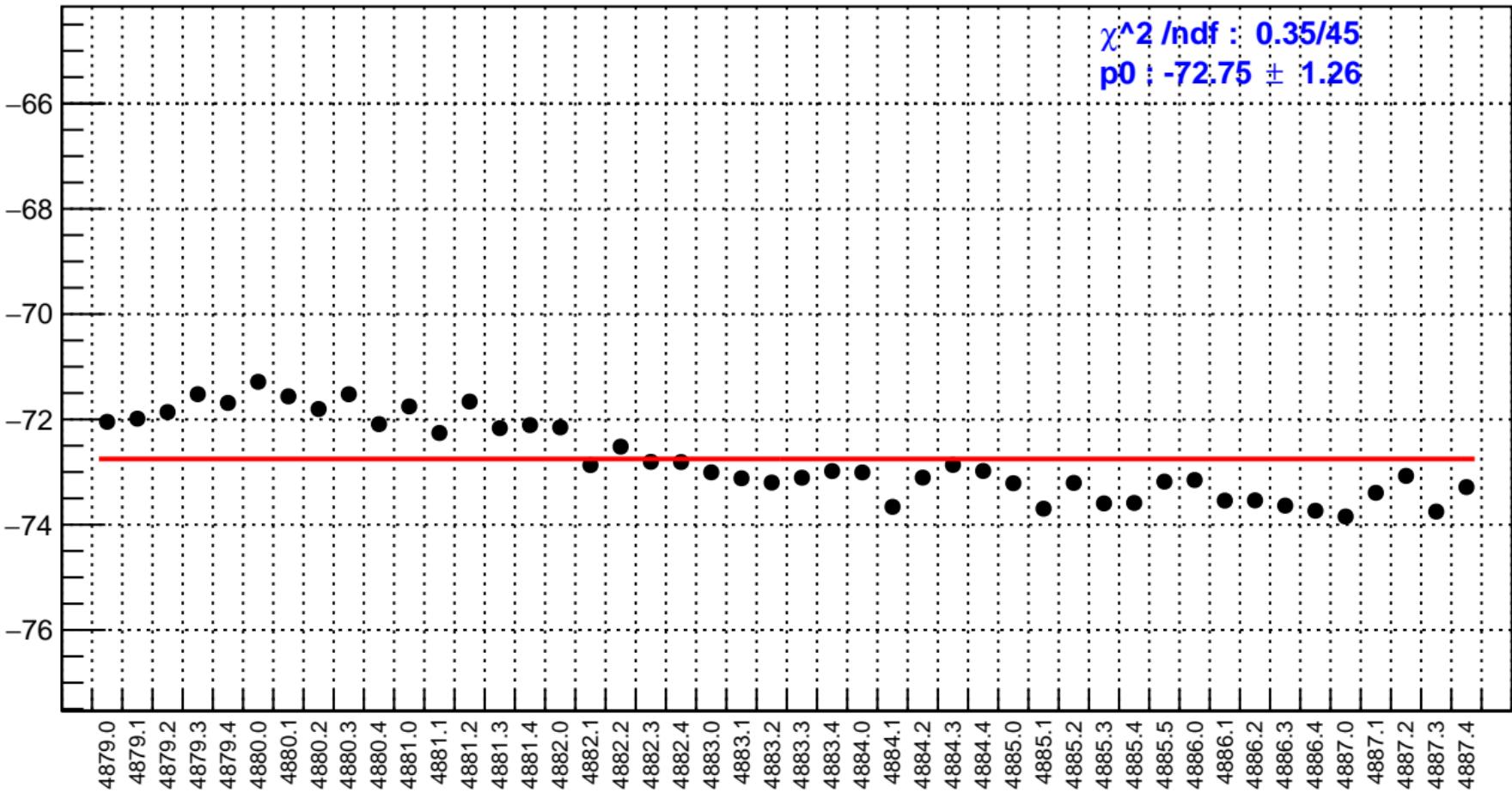
# slug89: dsl\_bpm4aX/(ppb/nm)



# slug89: dsl\_bpm4aY/(ppb/nm)

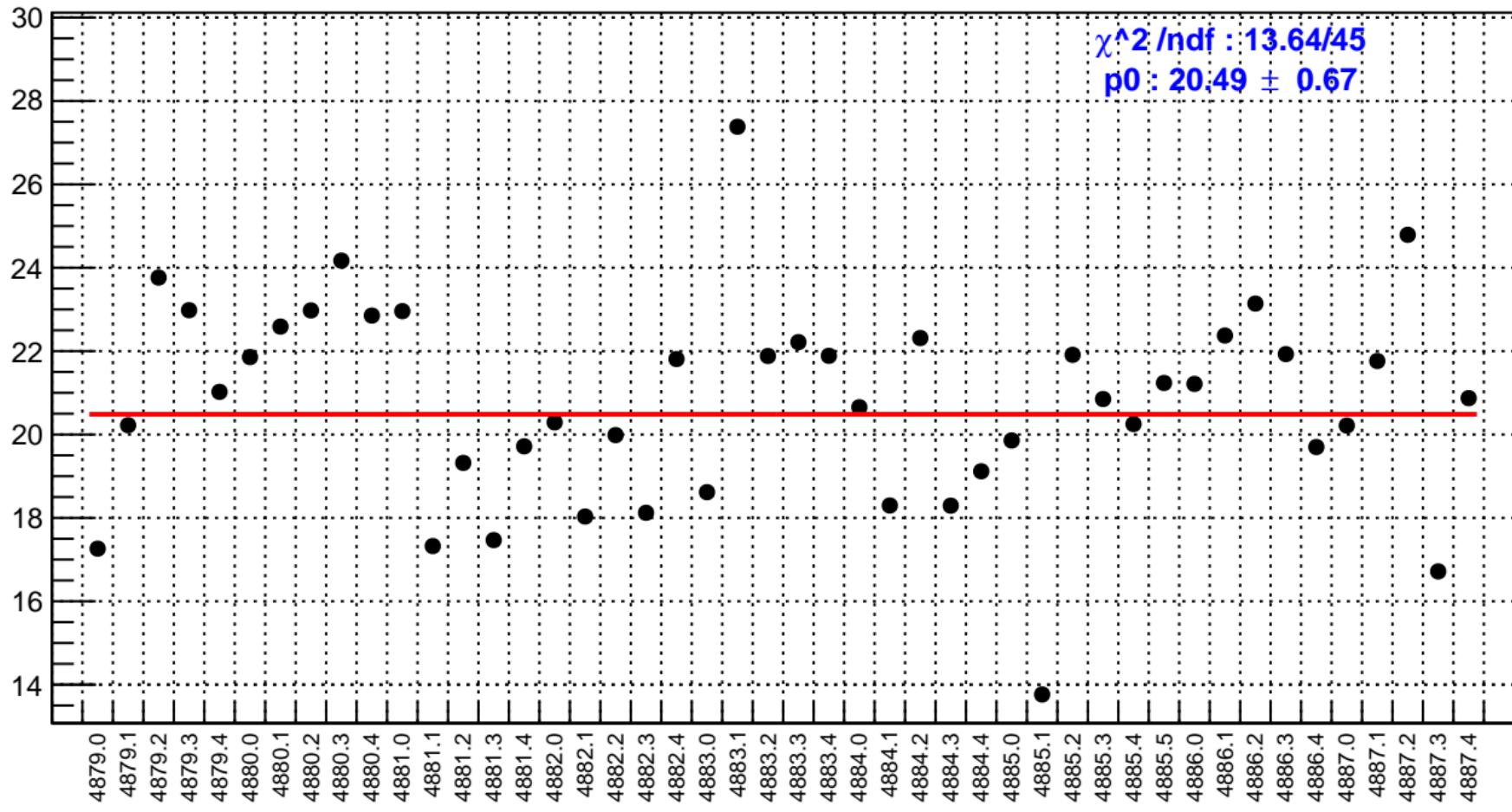


# slug89: dsl\_bpm4eX/(ppb/nm)

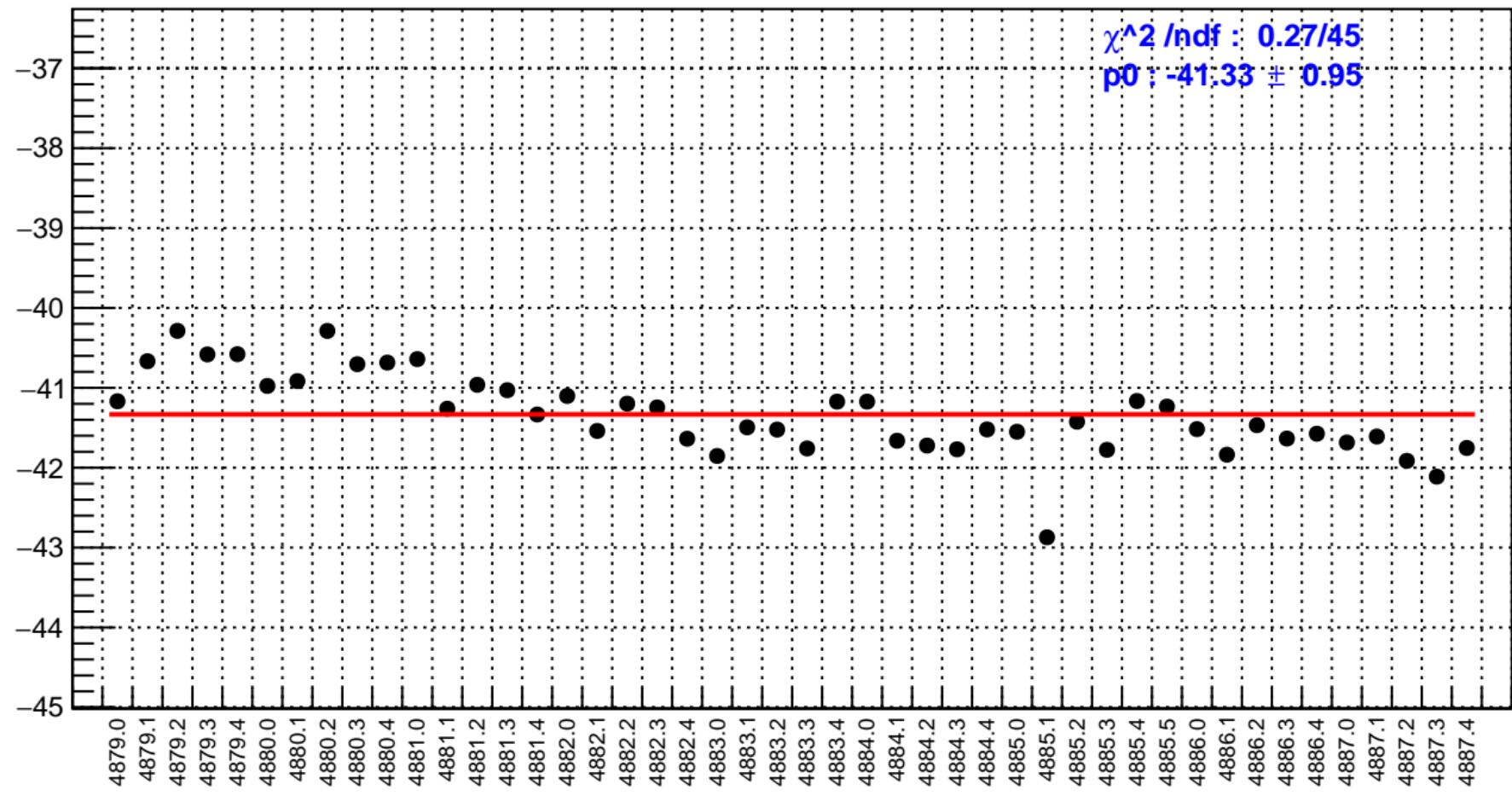


# slug89: dsl\_bpm4eY/(ppb/nm)

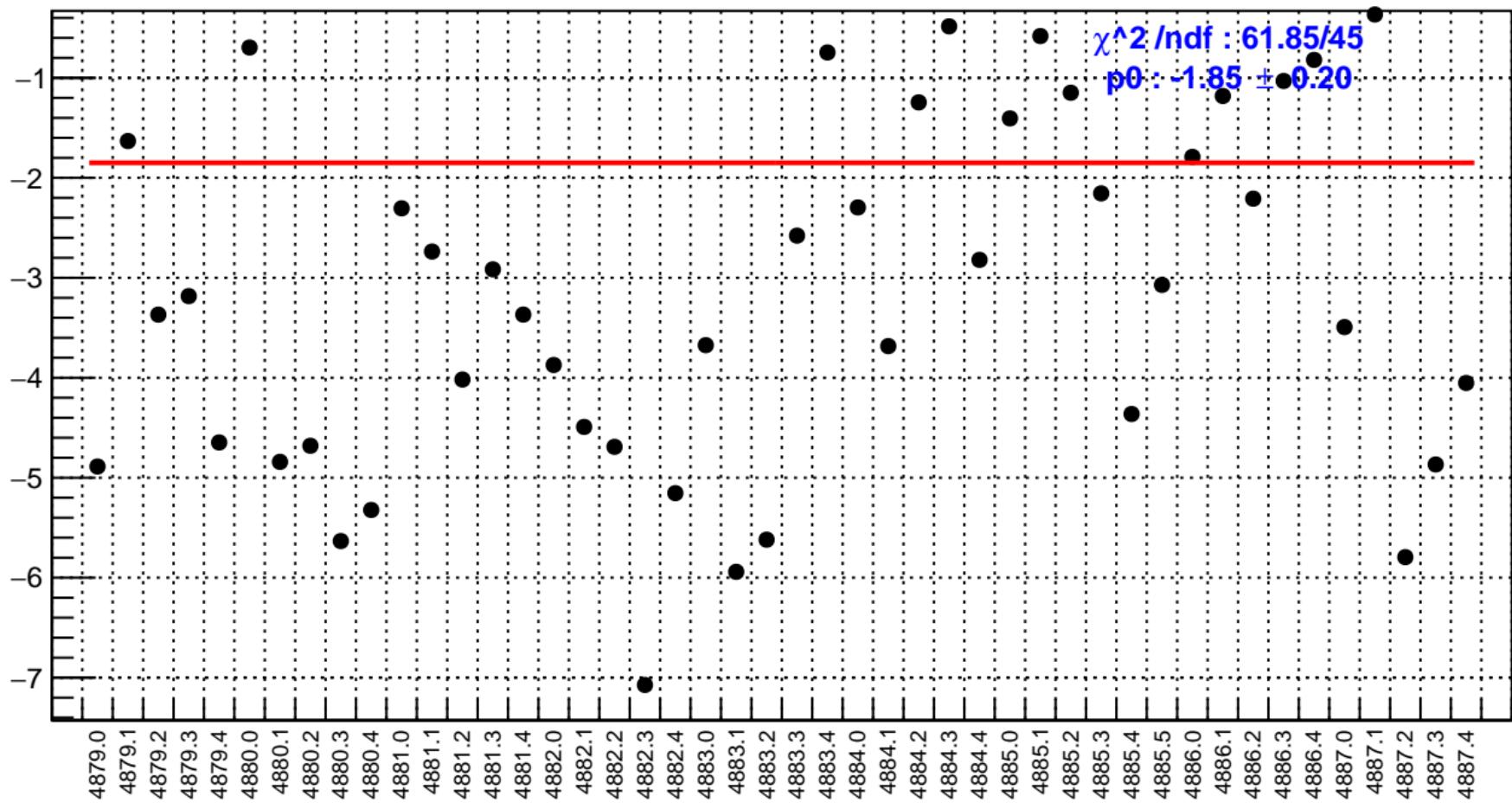
$\chi^2/\text{ndf} : 13.64/45$   
 $p_0 : 20.49 \pm 0.67$



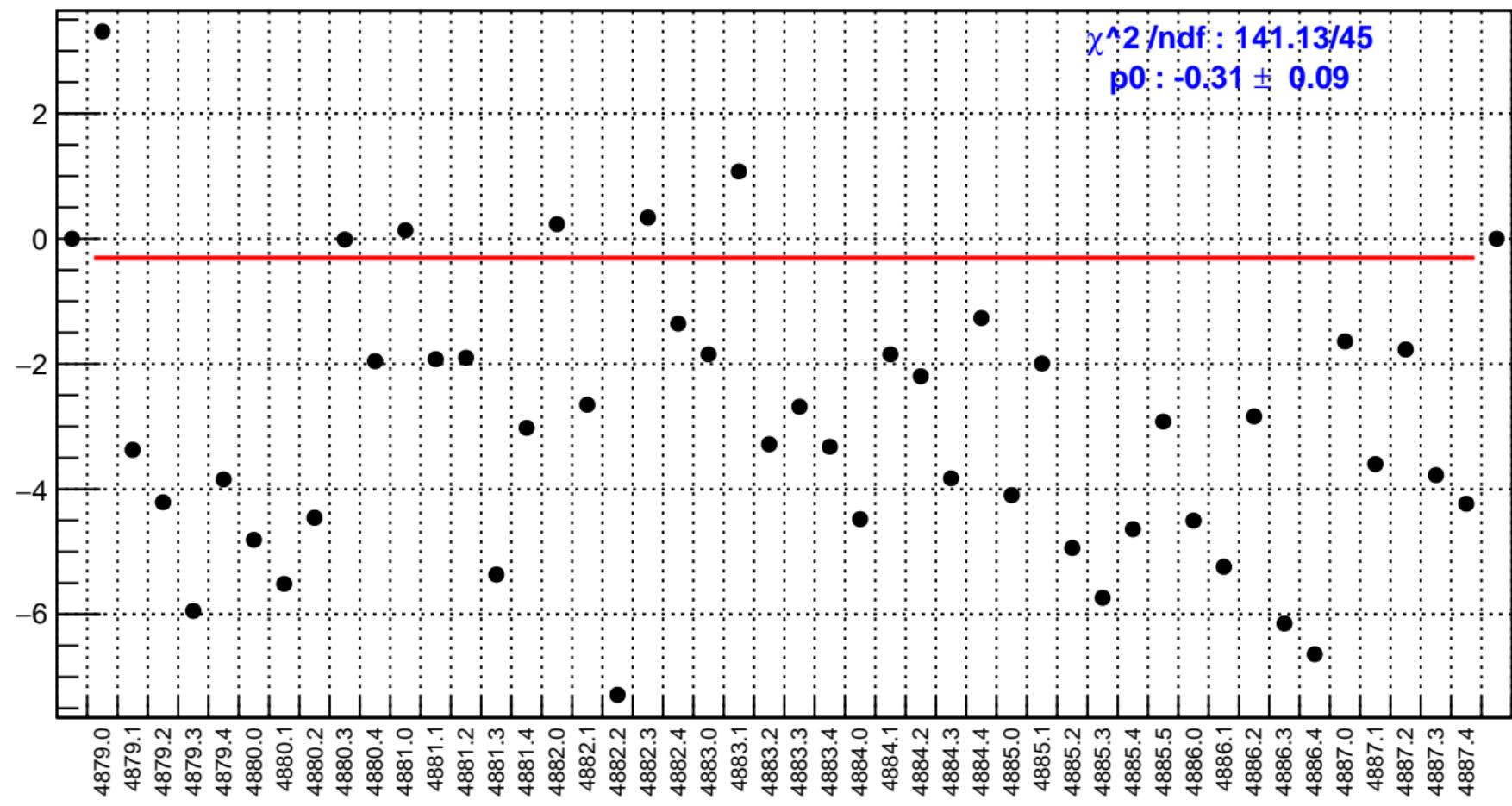
# slug89: dsl\_bpm12X/(ppb/nm)



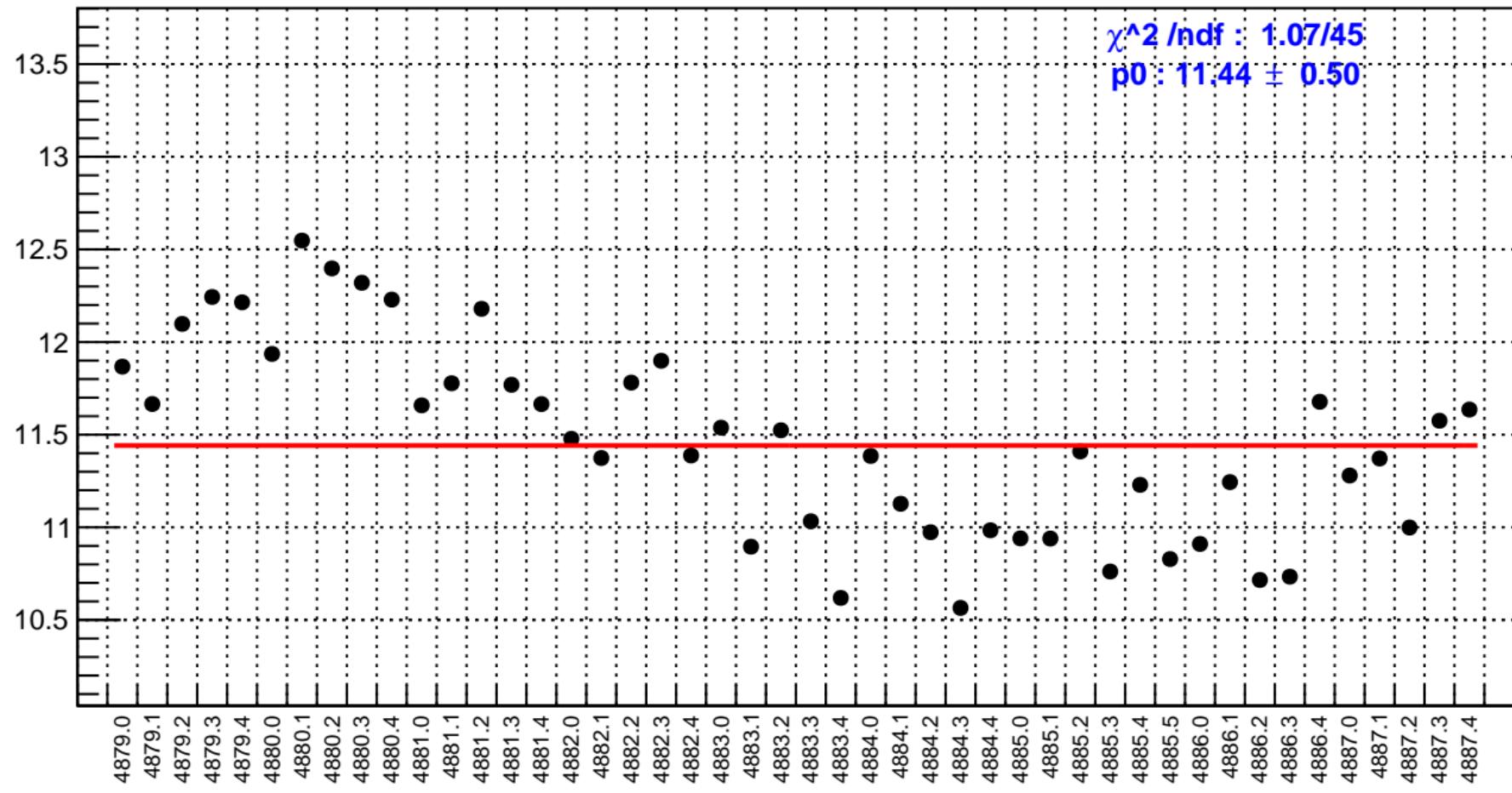
# slug89: dsr\_bpm4aX/(ppb/nm)



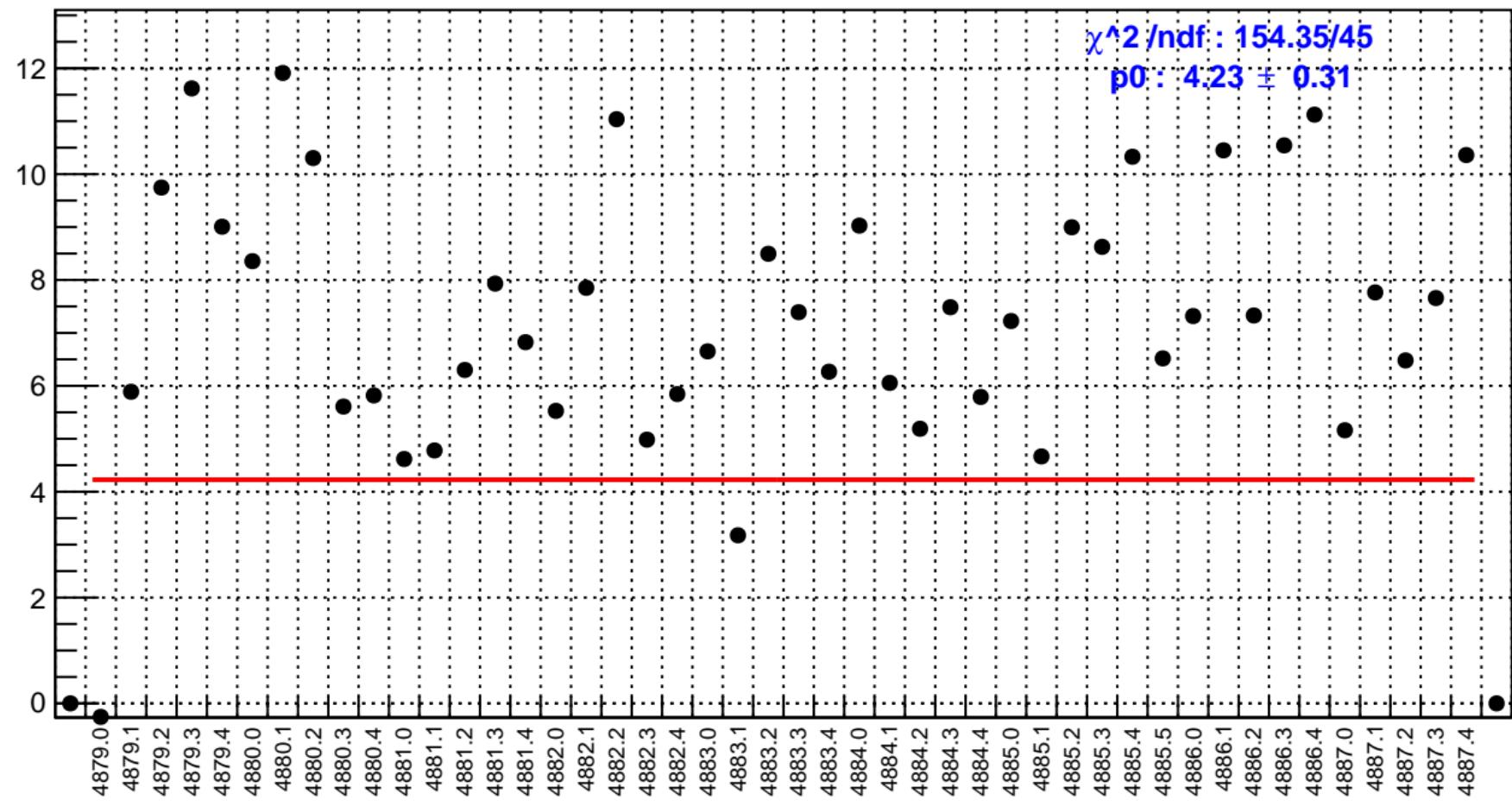
# slug89: dsr\_bpm4aY/(ppb/nm)



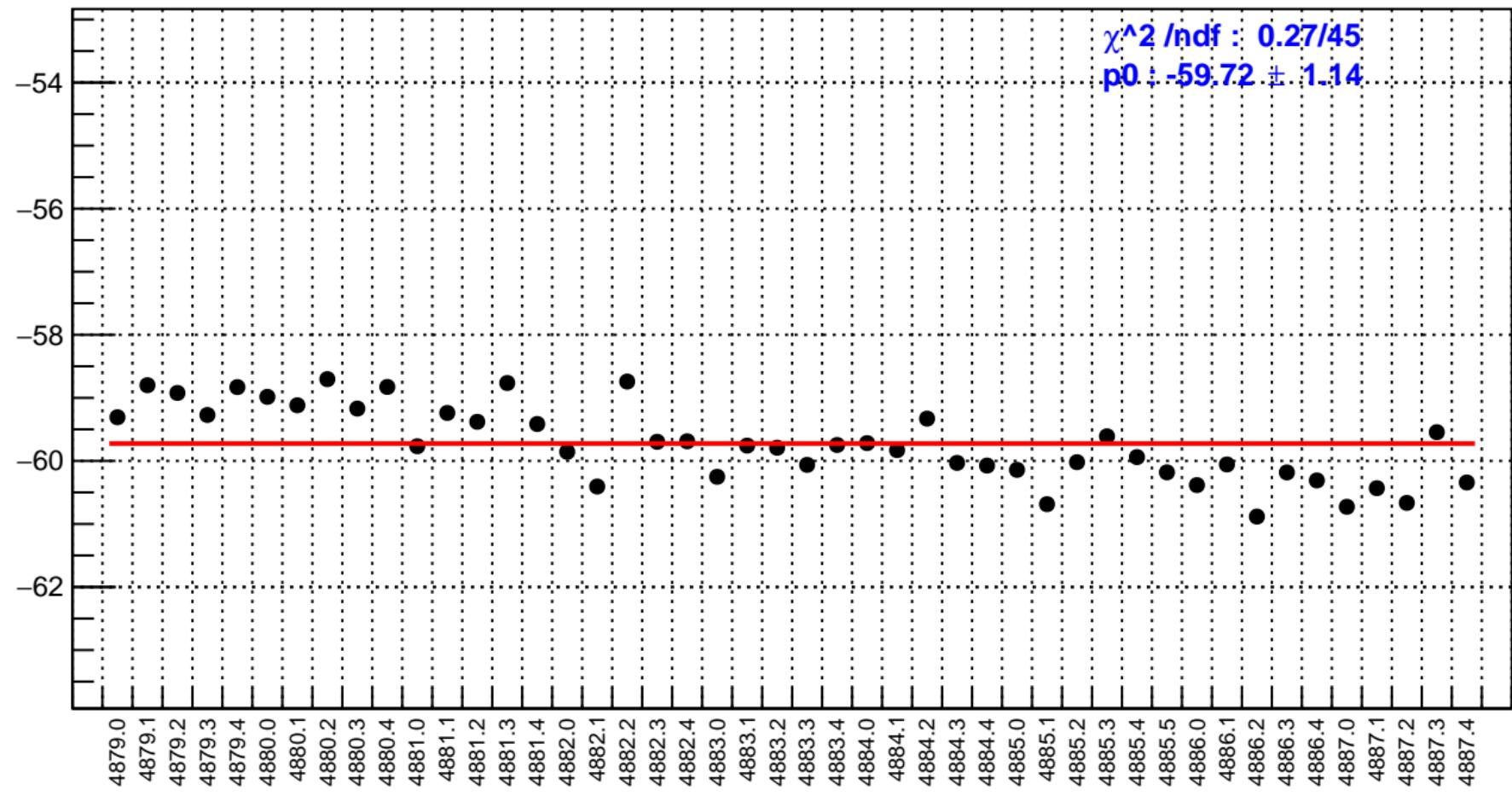
# slug89: dsr\_bpm4eX/(ppb/nm)



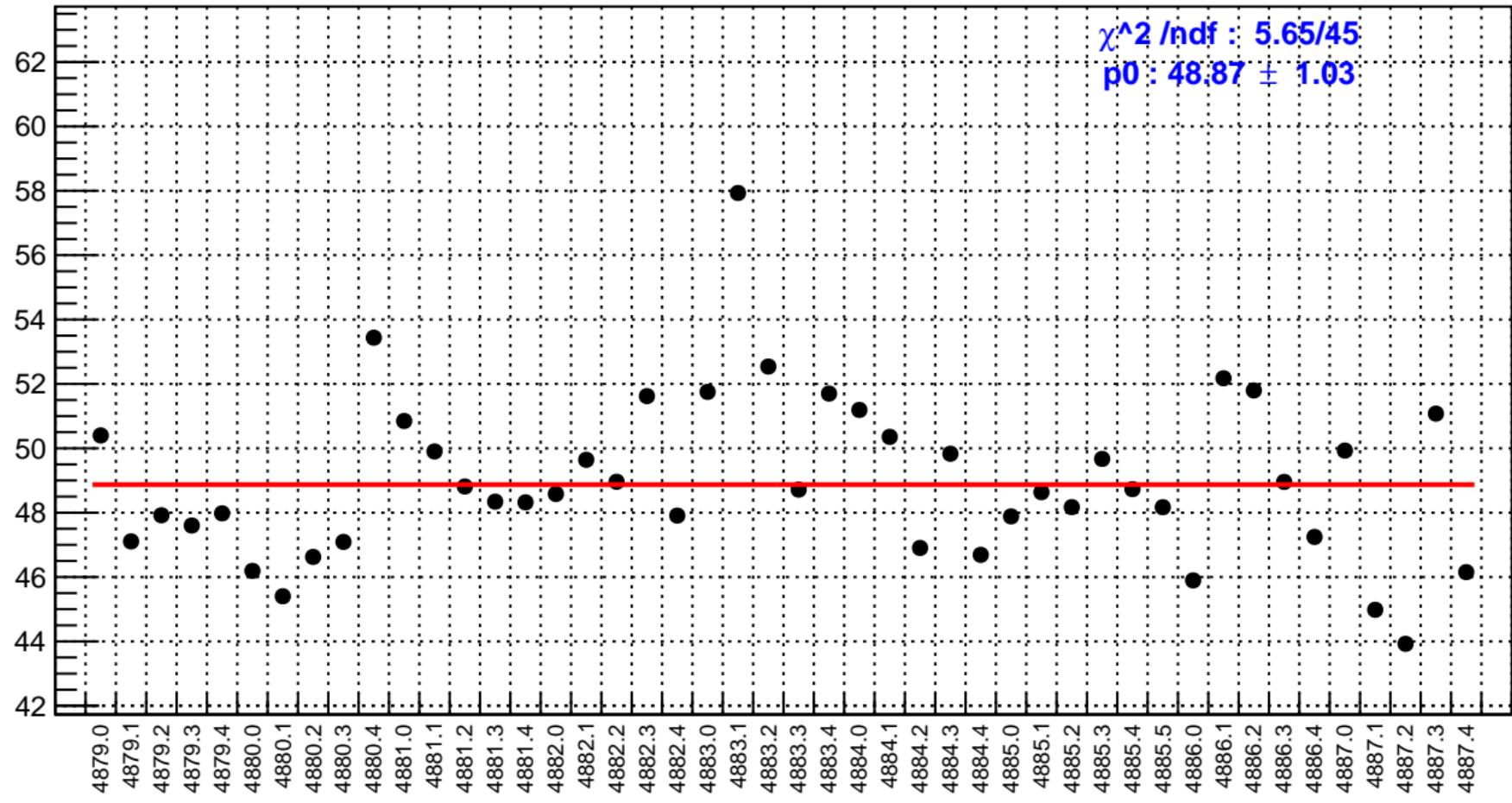
# slug89: dsr\_bpm4eY/(ppb/nm)



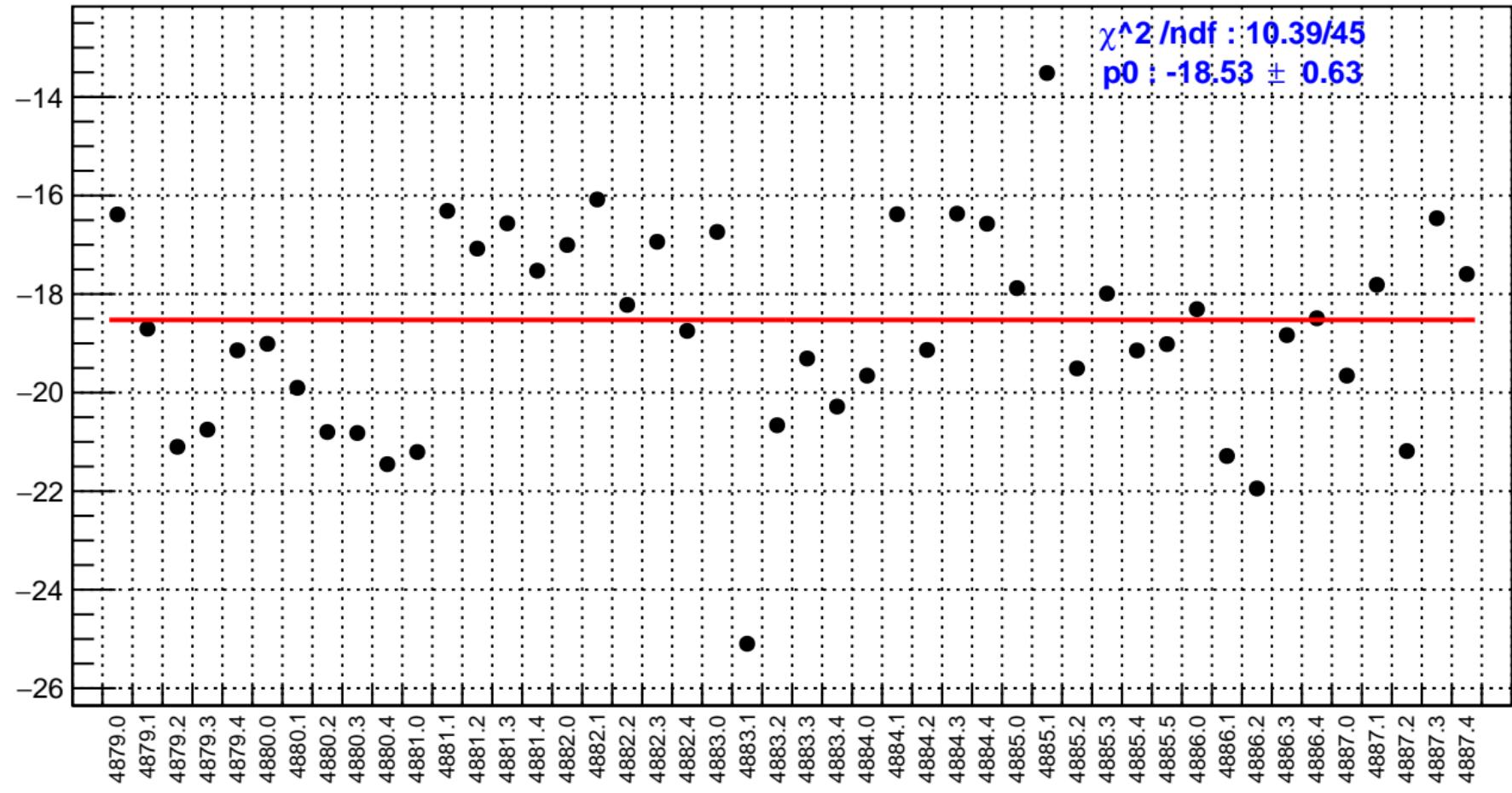
# slug89: dsr\_bpm12X/(ppb/nm)



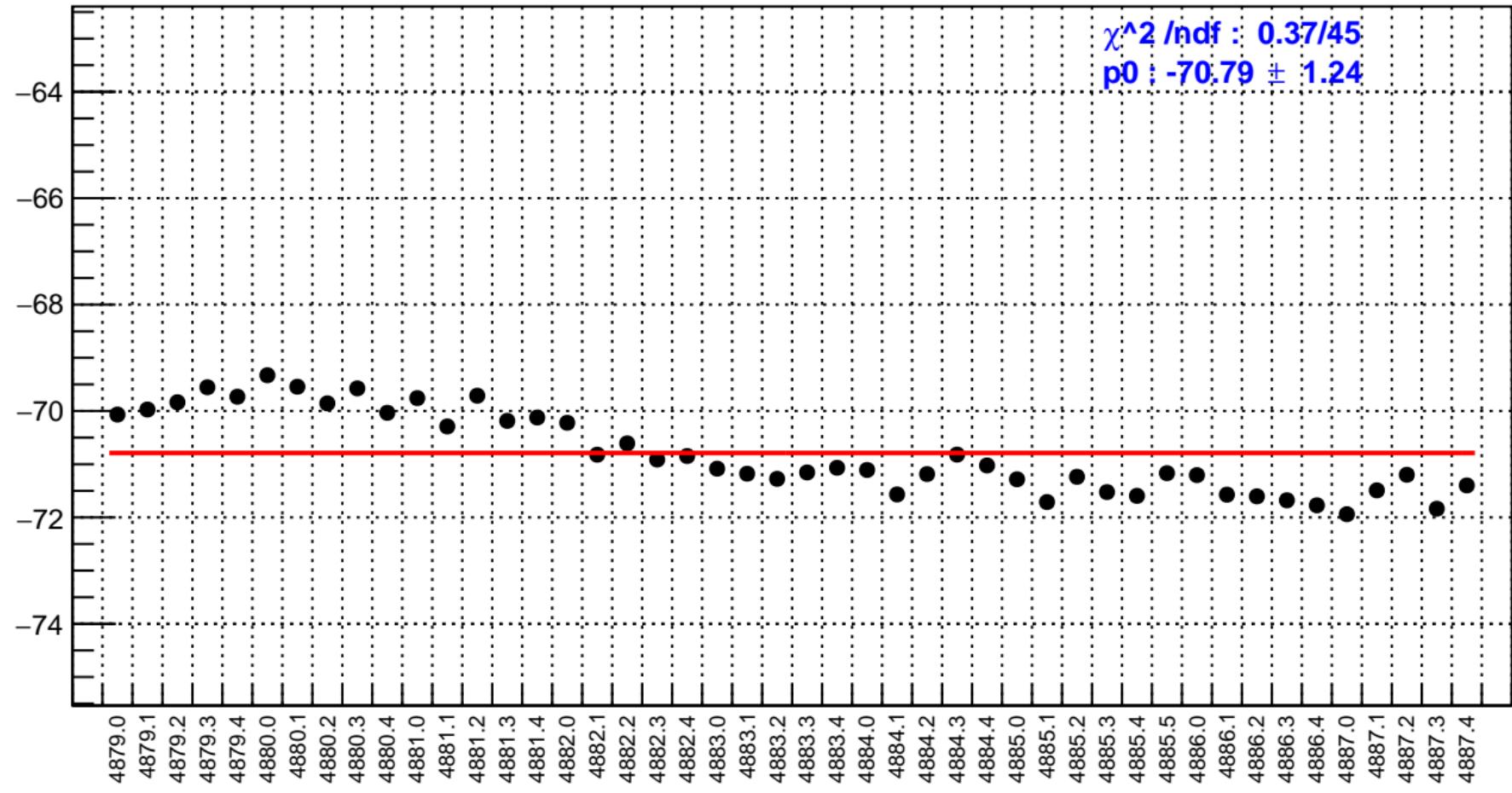
# slug89: left\_avg\_bpm4aX(ppb/nm)



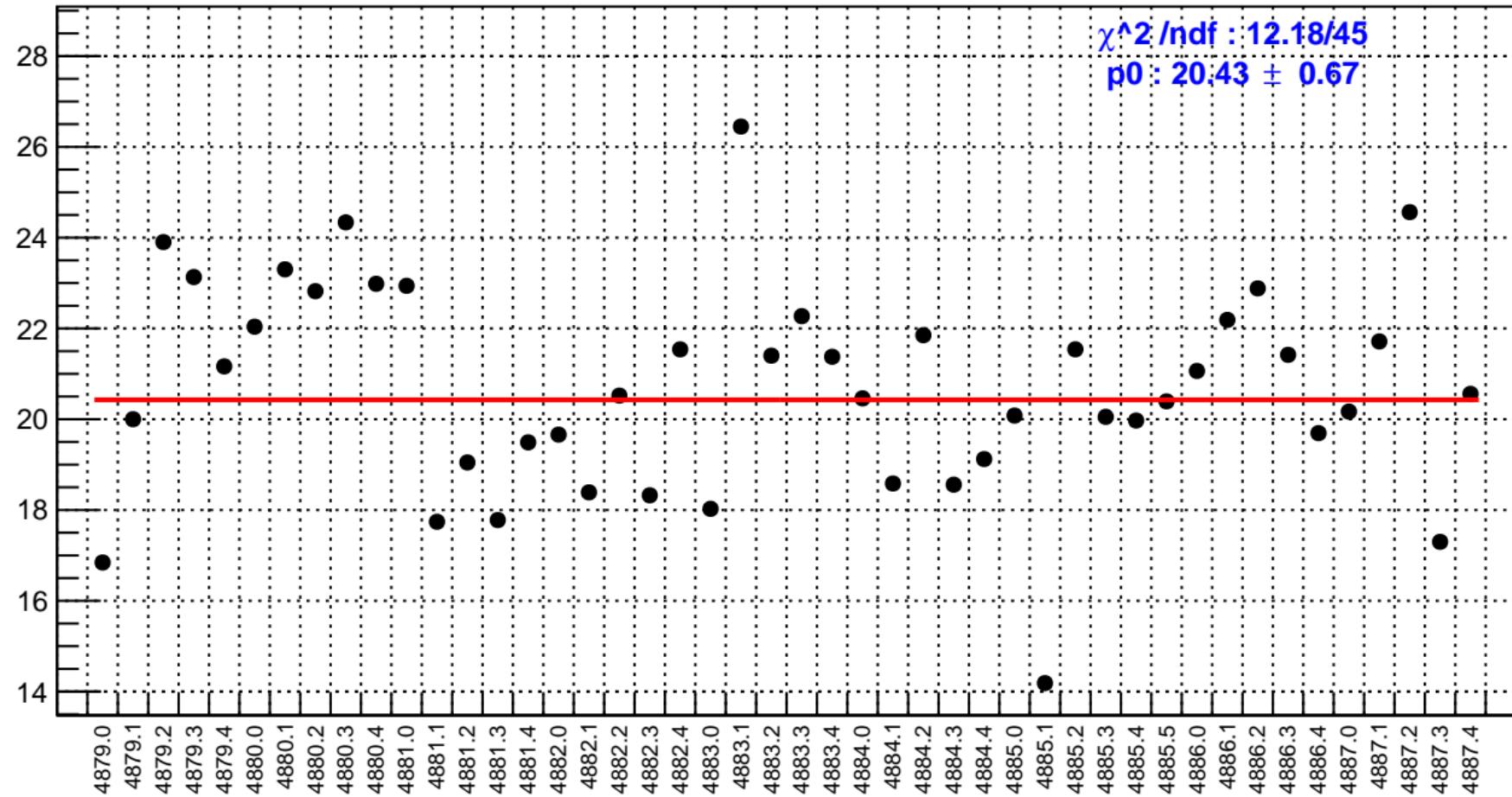
# slug89: left\_avg\_bpm4aY/(ppb/nm)



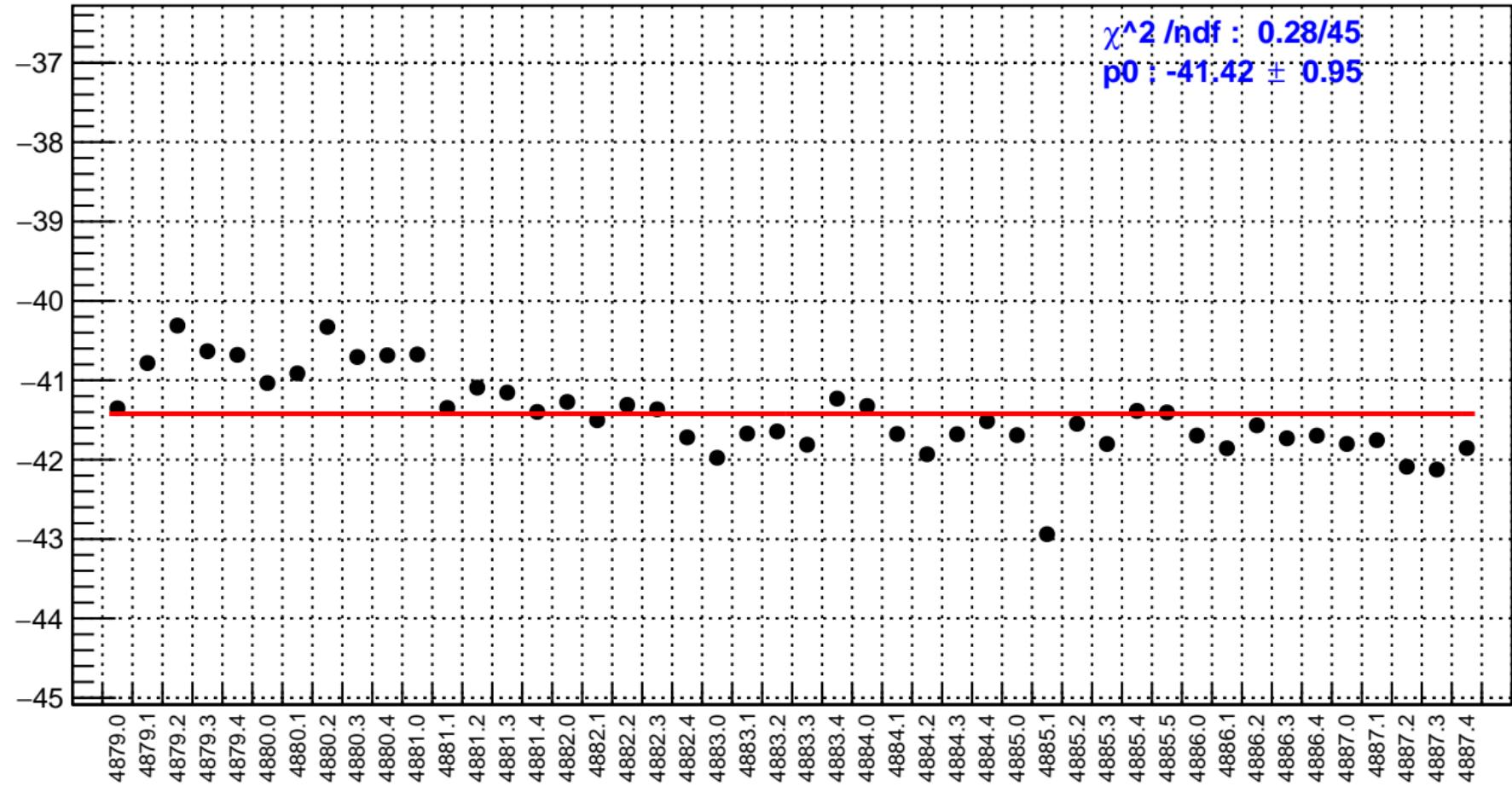
# slug89: left\_avg\_bpm4eX(ppb/nm)



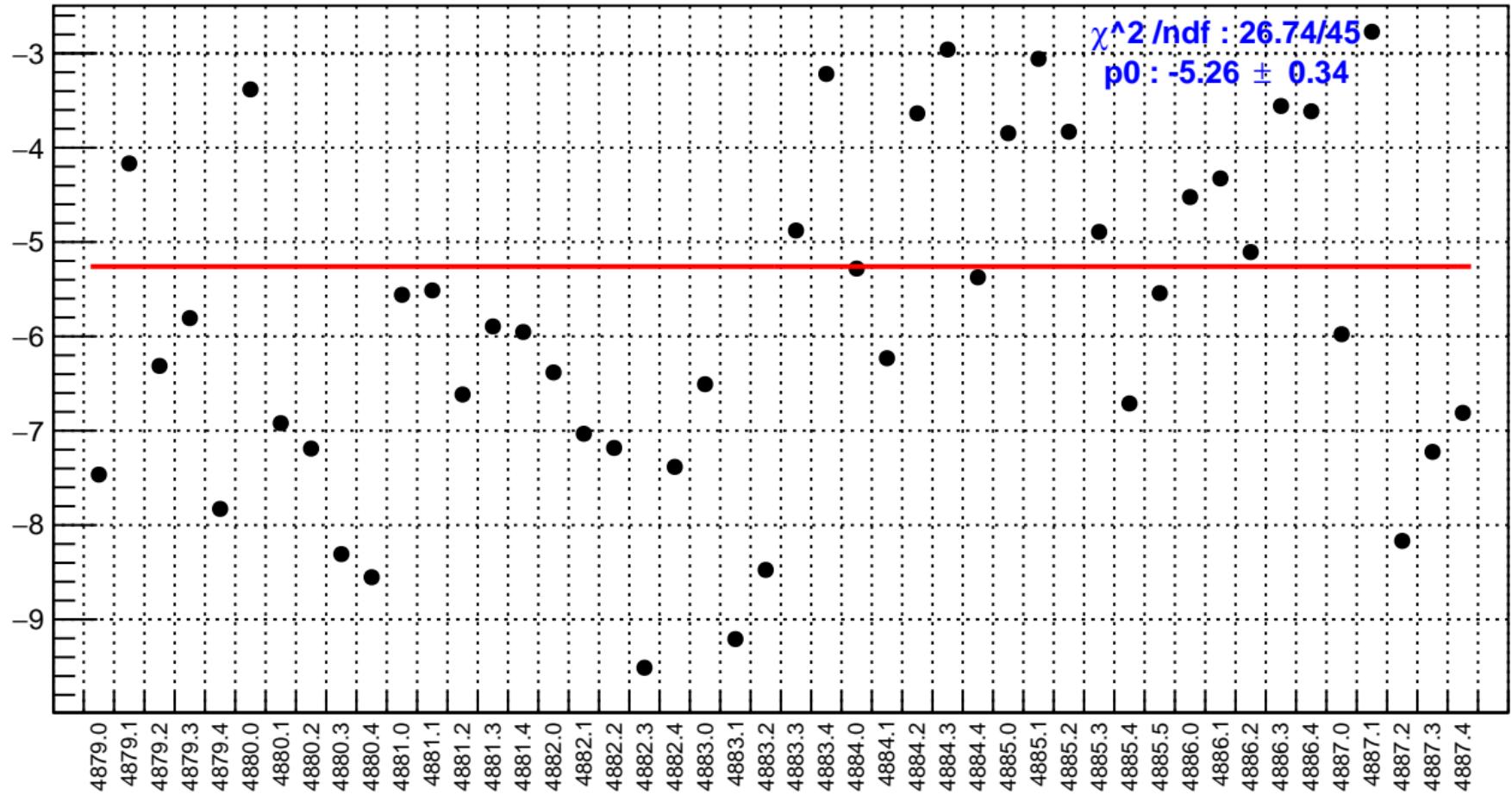
# slug89: left\_avg\_bpm4eY/(ppb/nm)



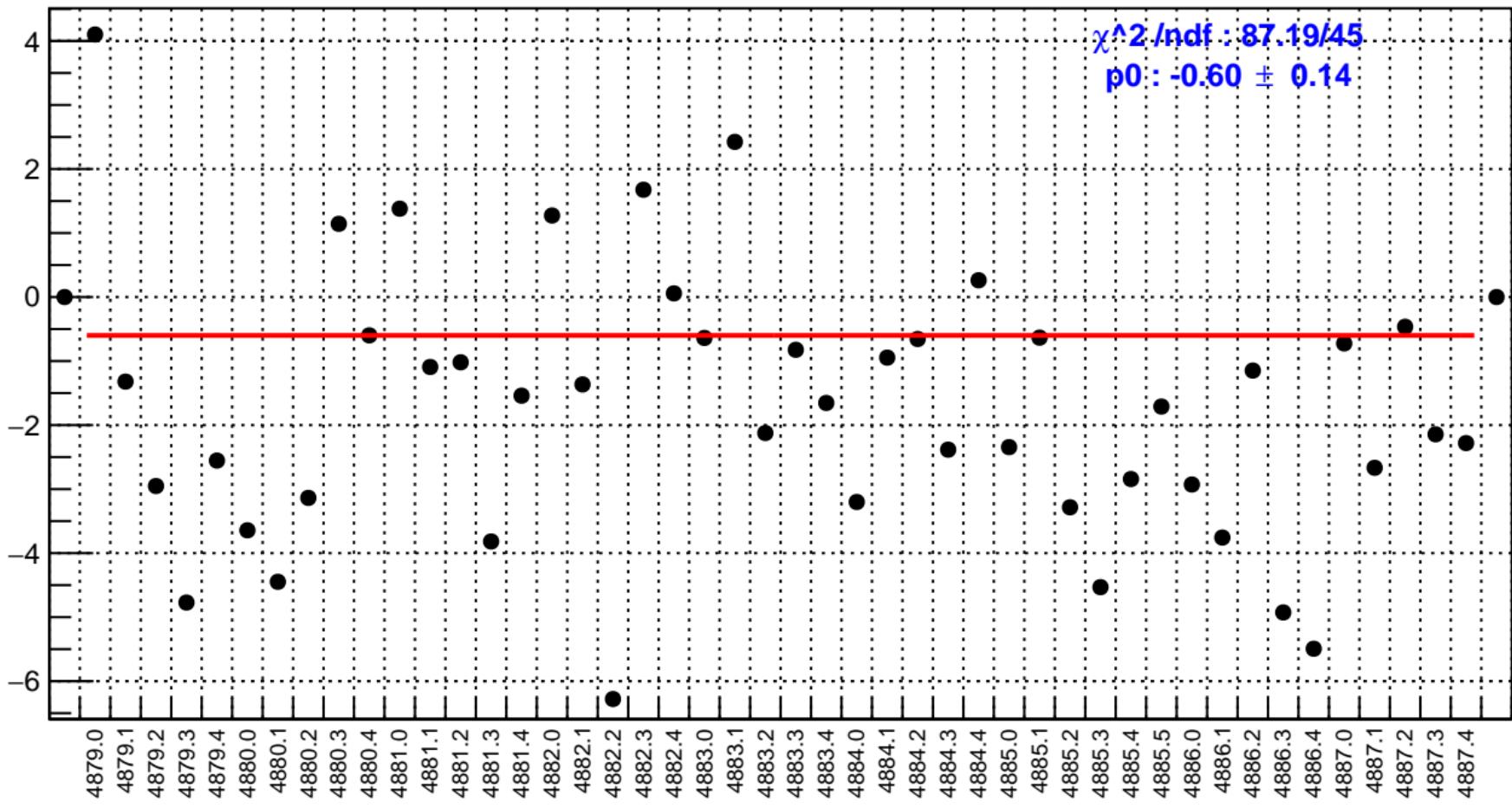
# slug89: left\_avg\_bpm12X(ppb/nm)



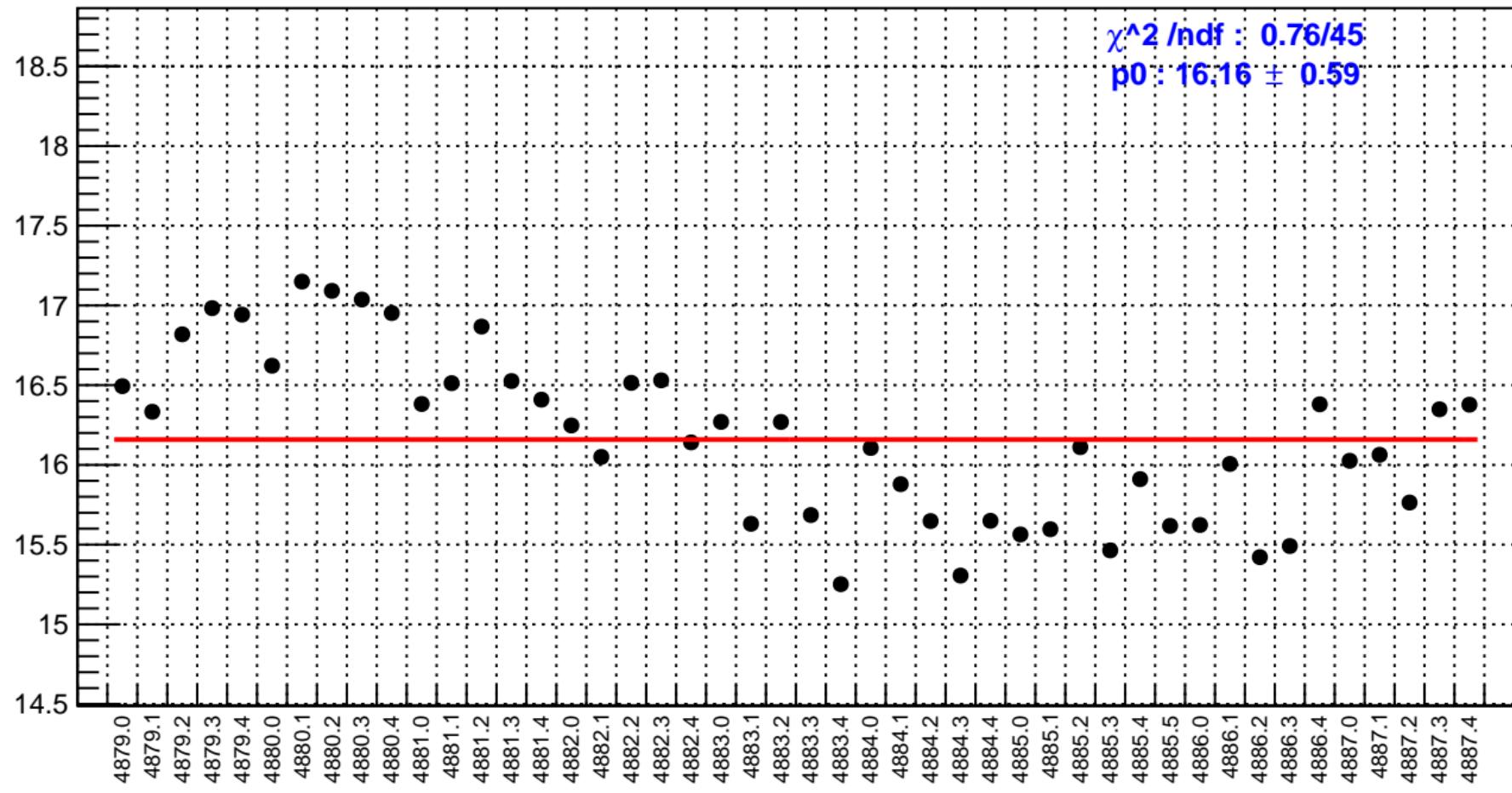
# slug89: right\_avg\_bpm4aX/(ppb/nm)



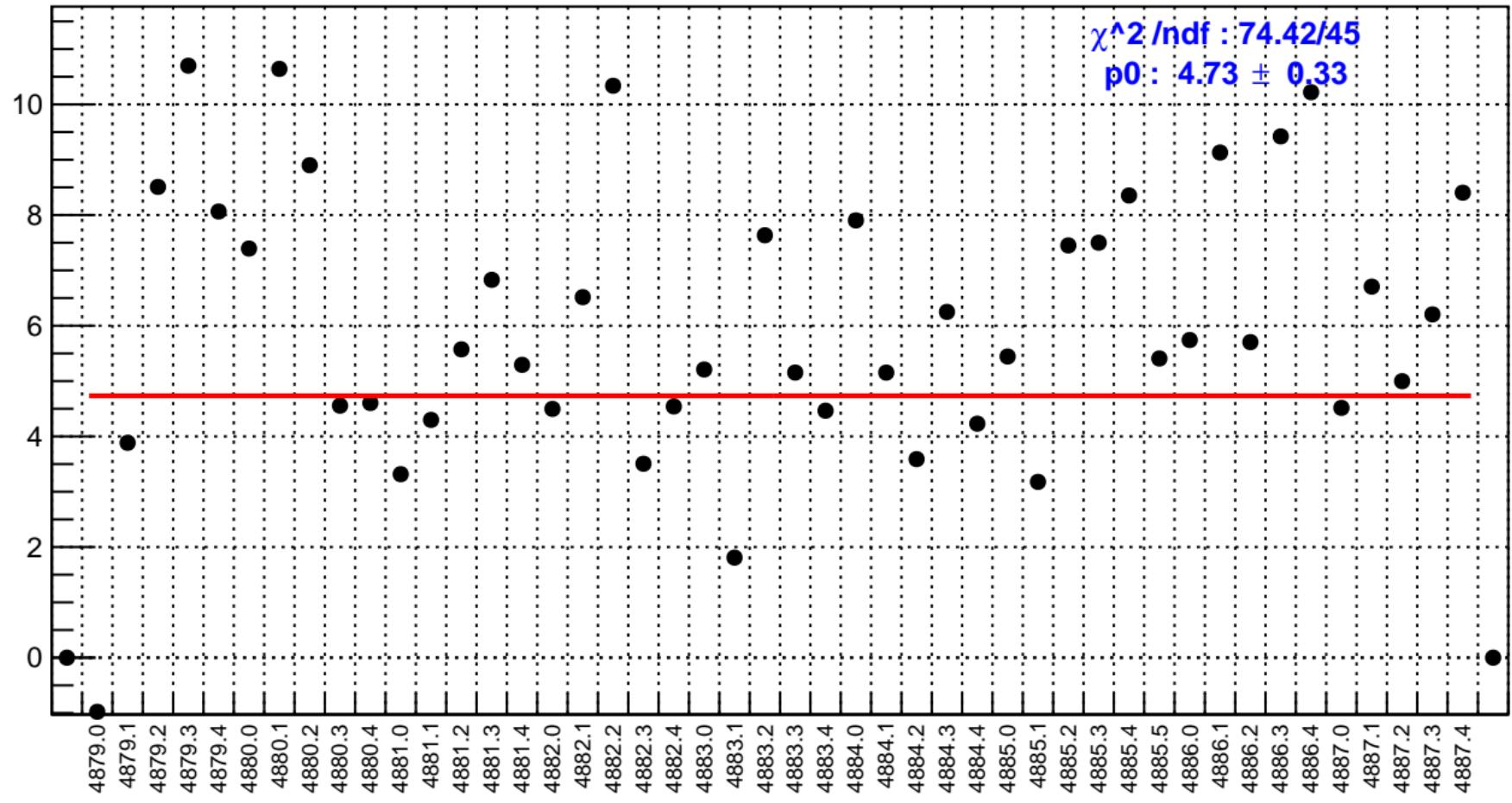
# slug89: right\_avg\_bpm4aY/(ppb/nm)



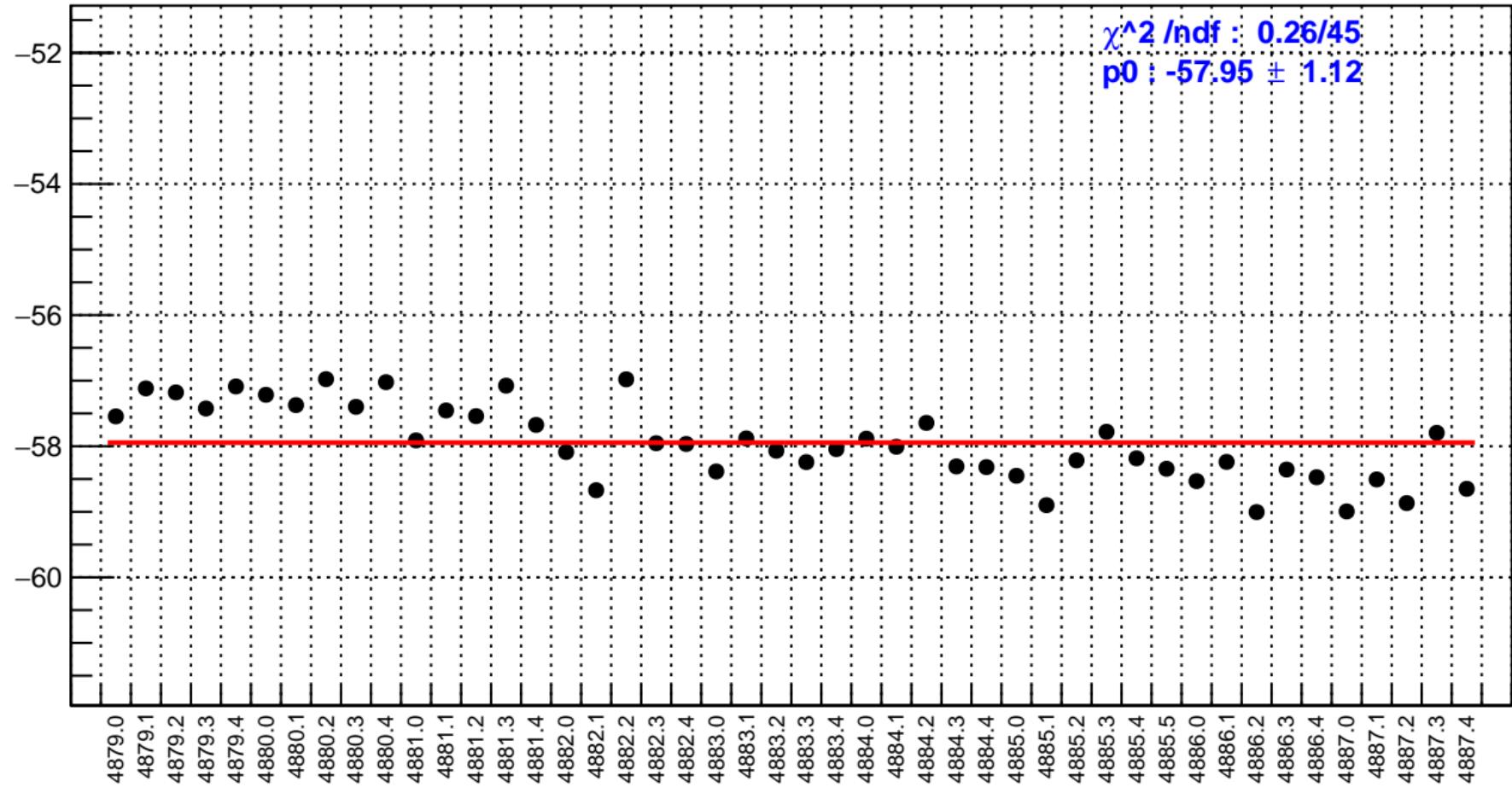
# slug89: right\_avg\_bpm4eX/(ppb/nm)



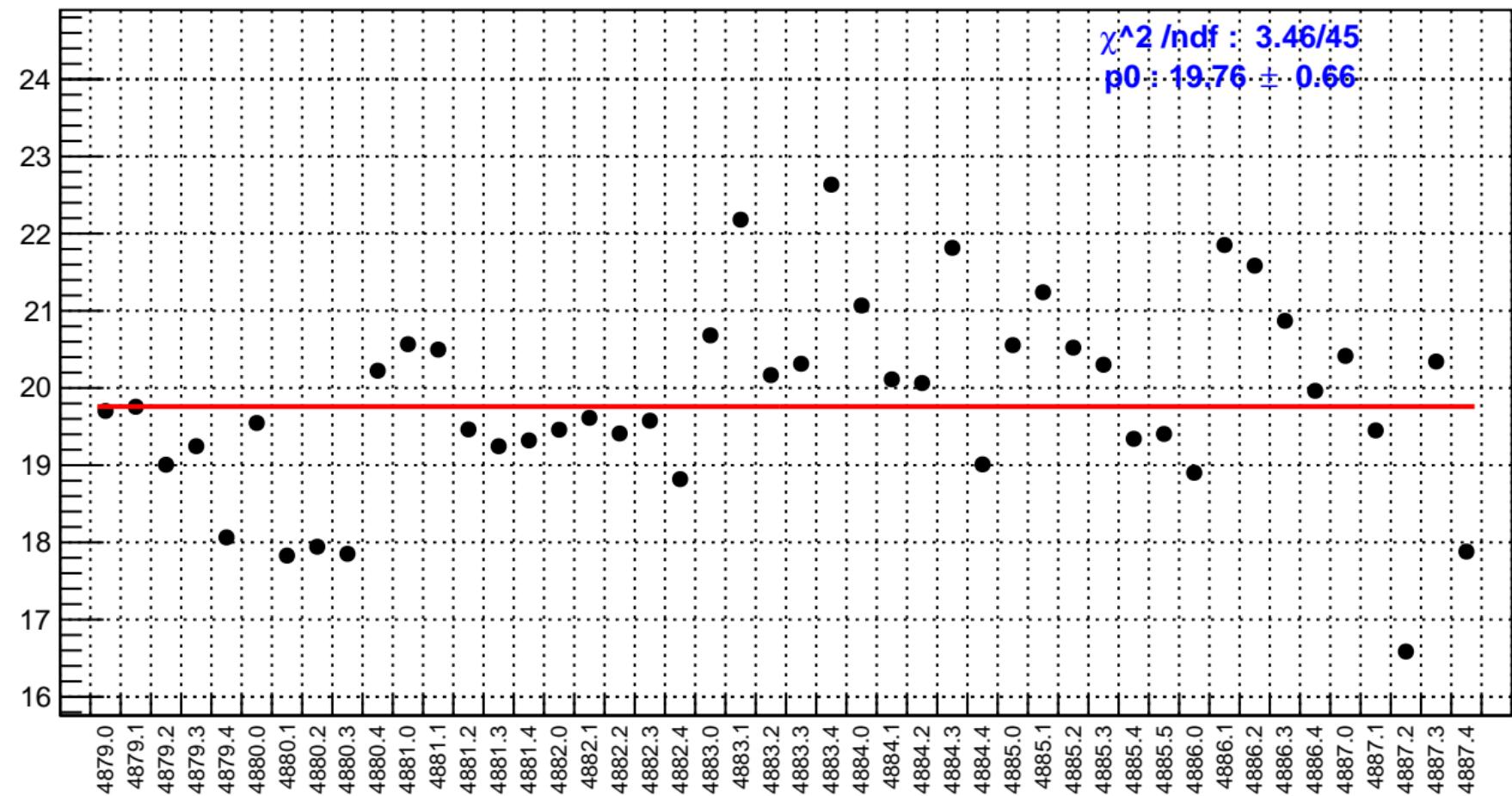
# slug89: right\_avg\_bpm4eY/(ppb/nm)



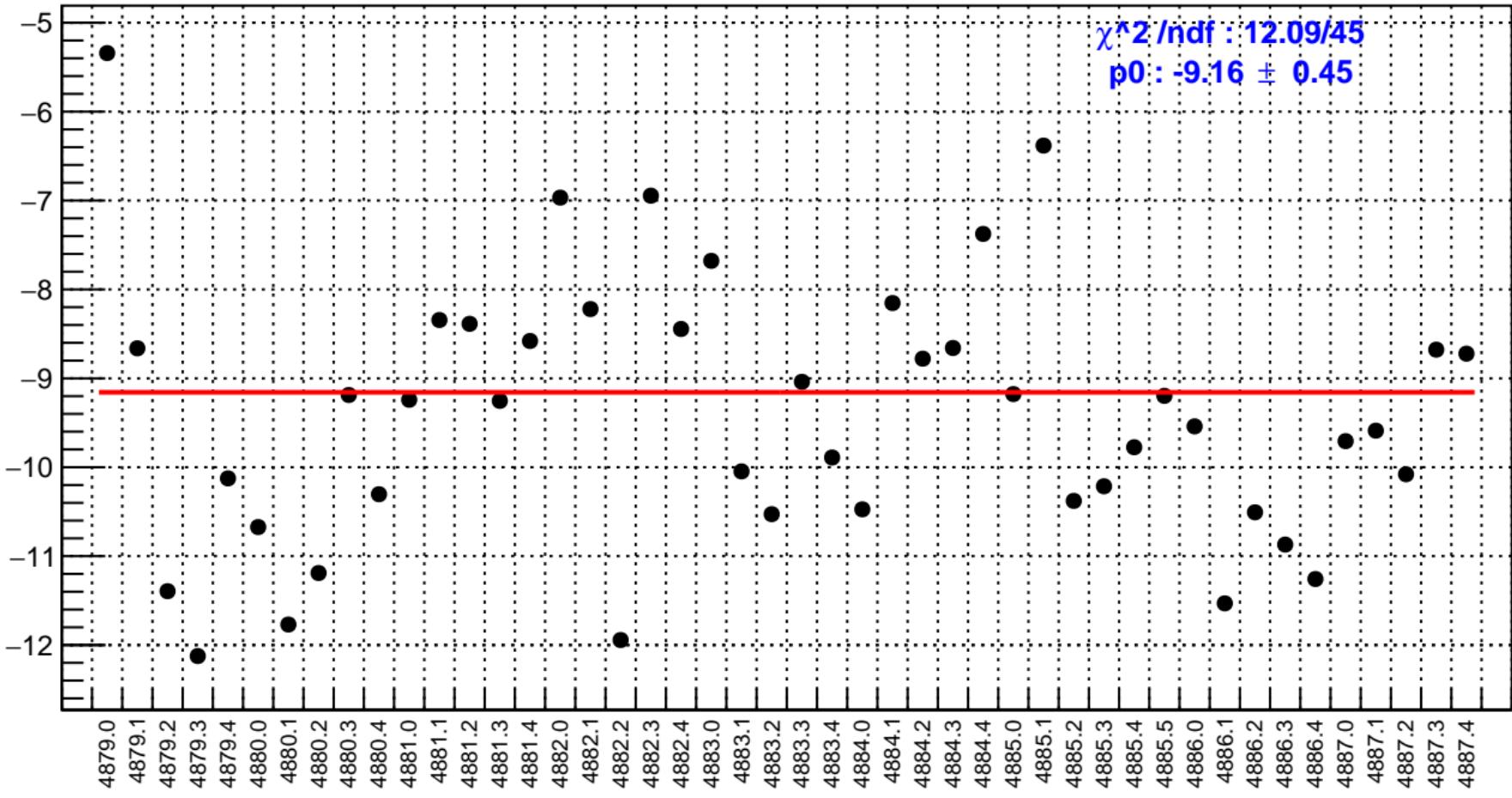
# slug89: right\_avg\_bpm12X/(ppb/nm)



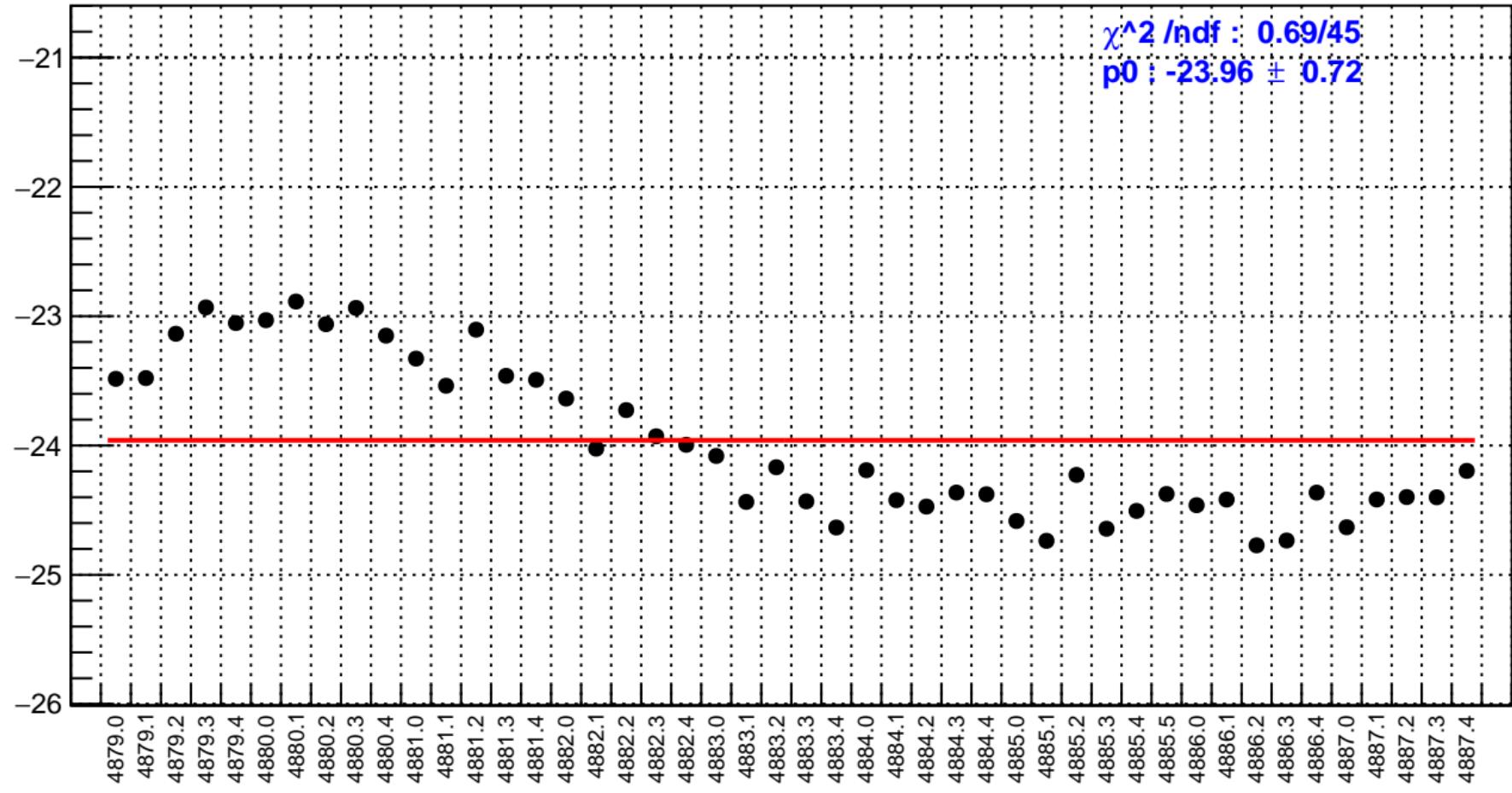
# slug89: us\_avg\_bpm4aX/(ppb/nm)



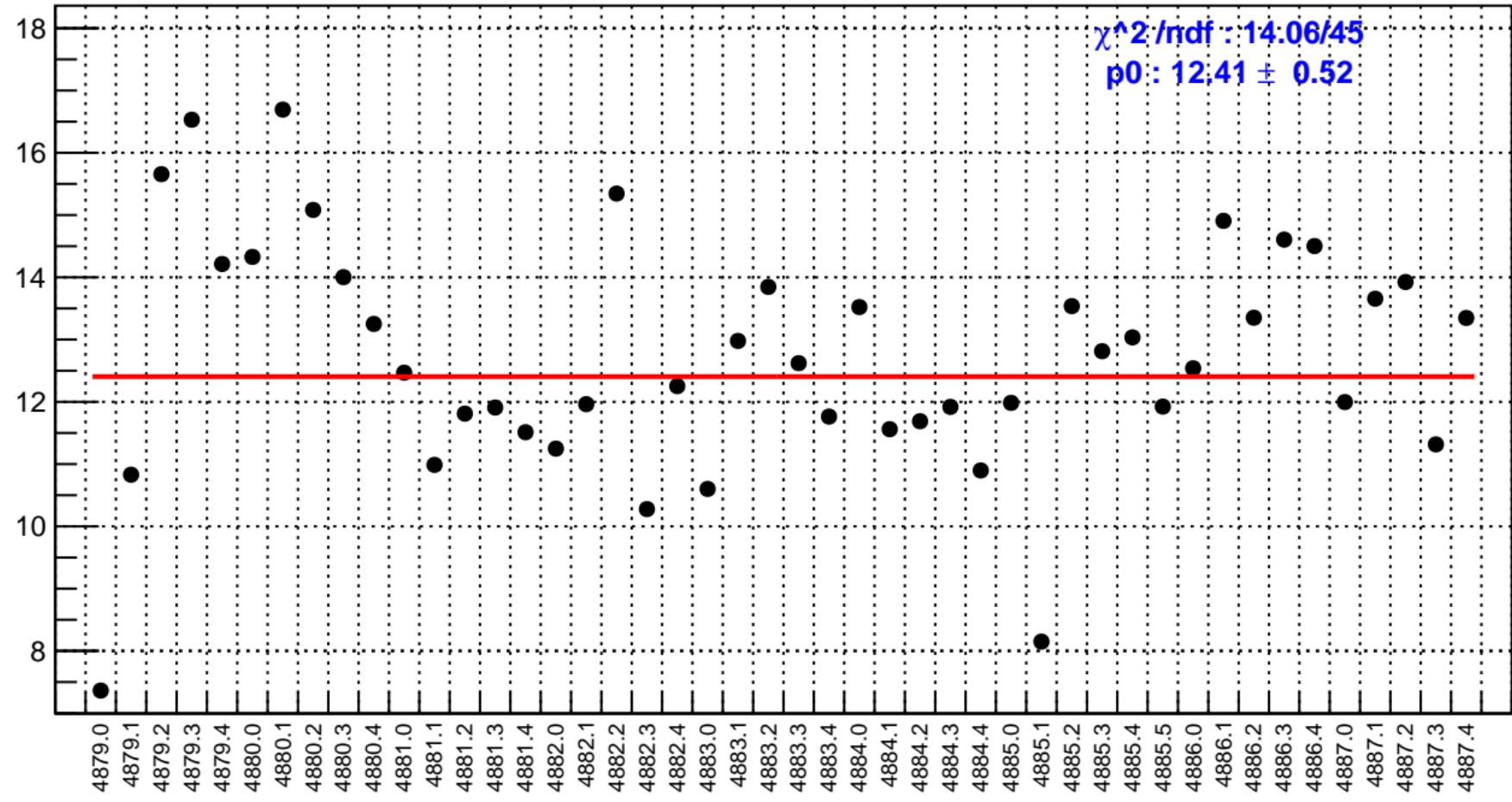
# slug89: us\_avg\_bpm4aY/(ppb/nm)



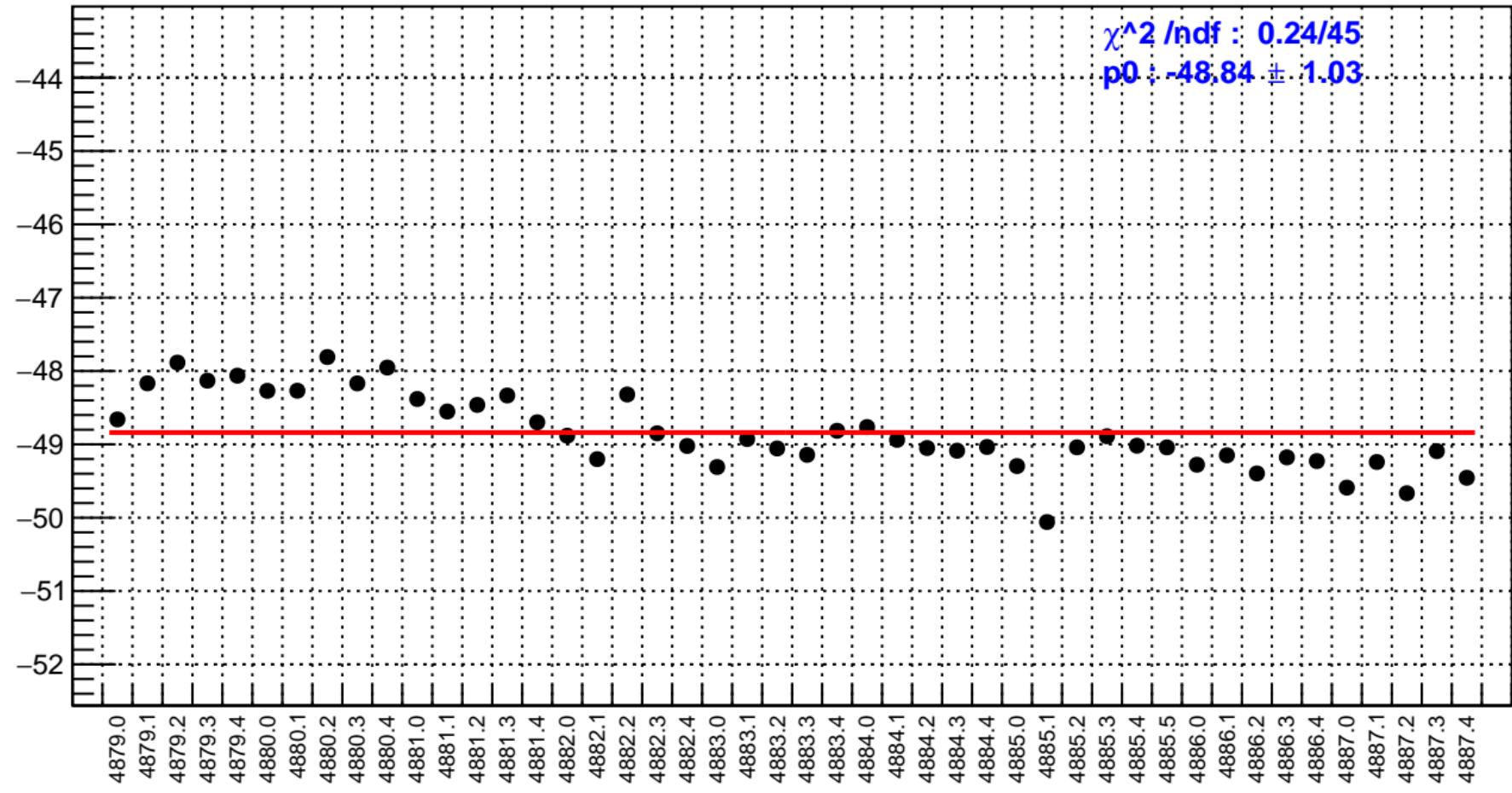
# slug89: us\_avg\_bpm4eX/(ppb/nm)



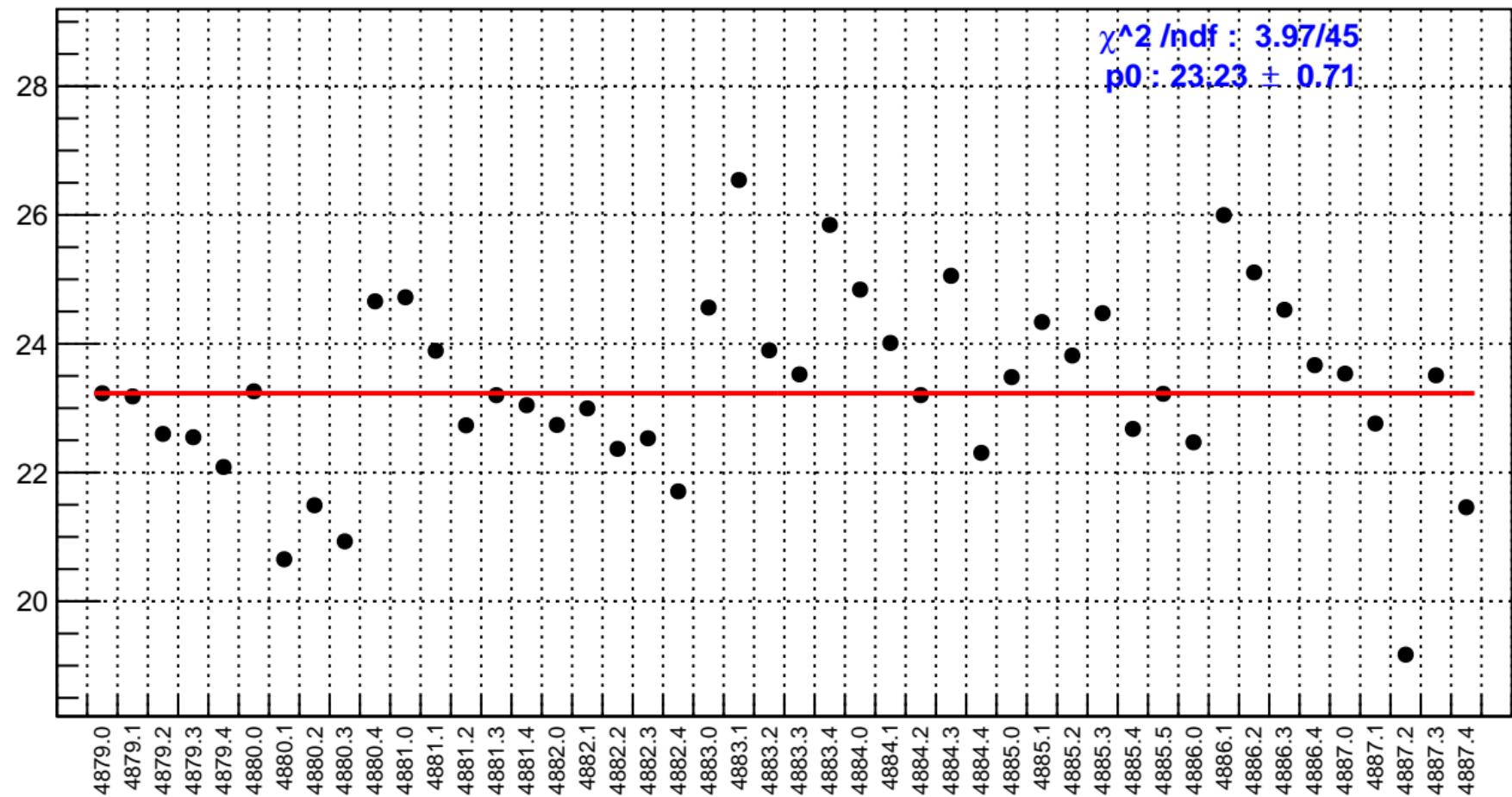
# slug89: us\_avg\_bpm4eY/(ppb/nm)



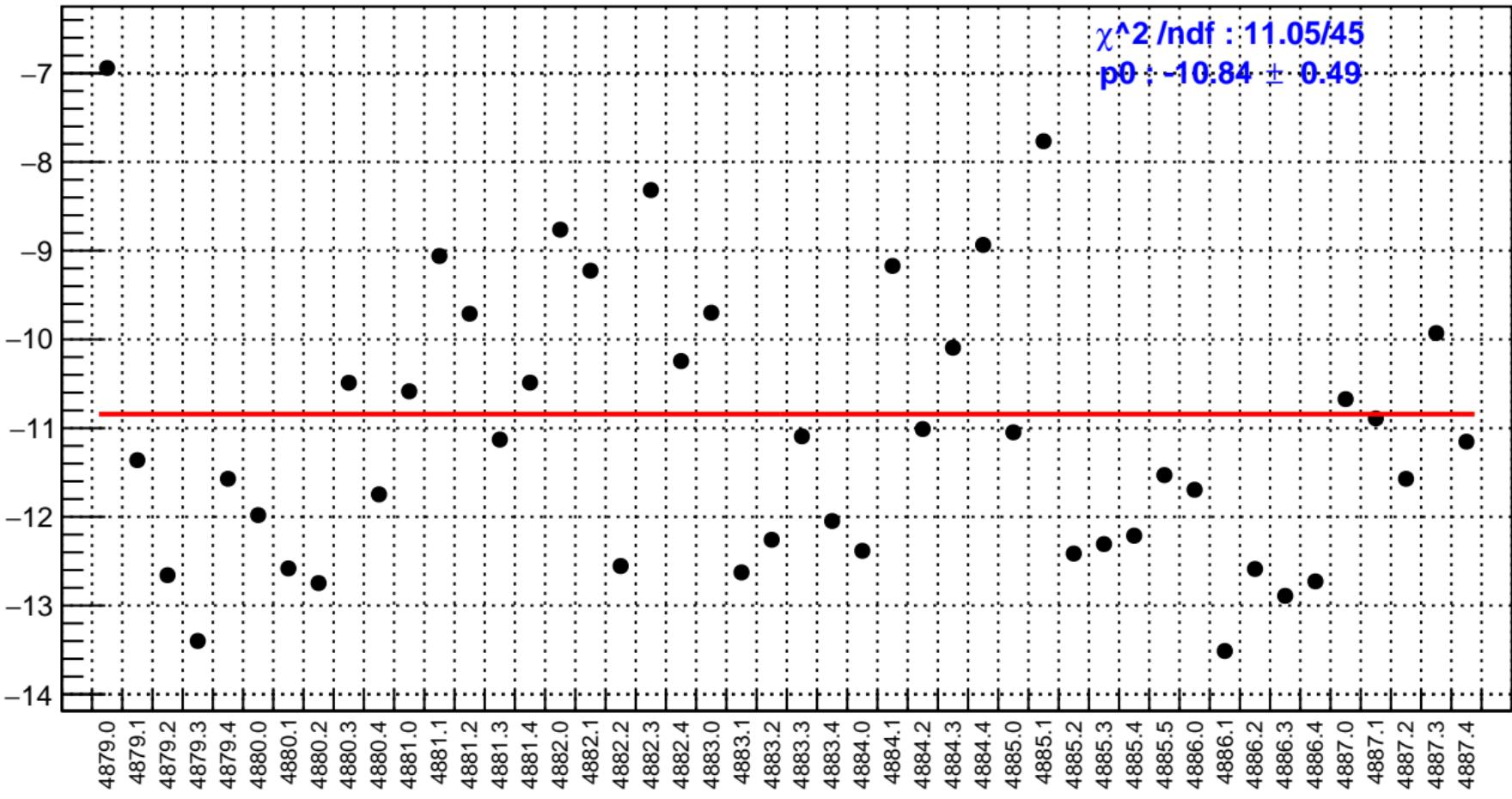
# slug89: us\_avg\_bpm12X/(ppb/nm)



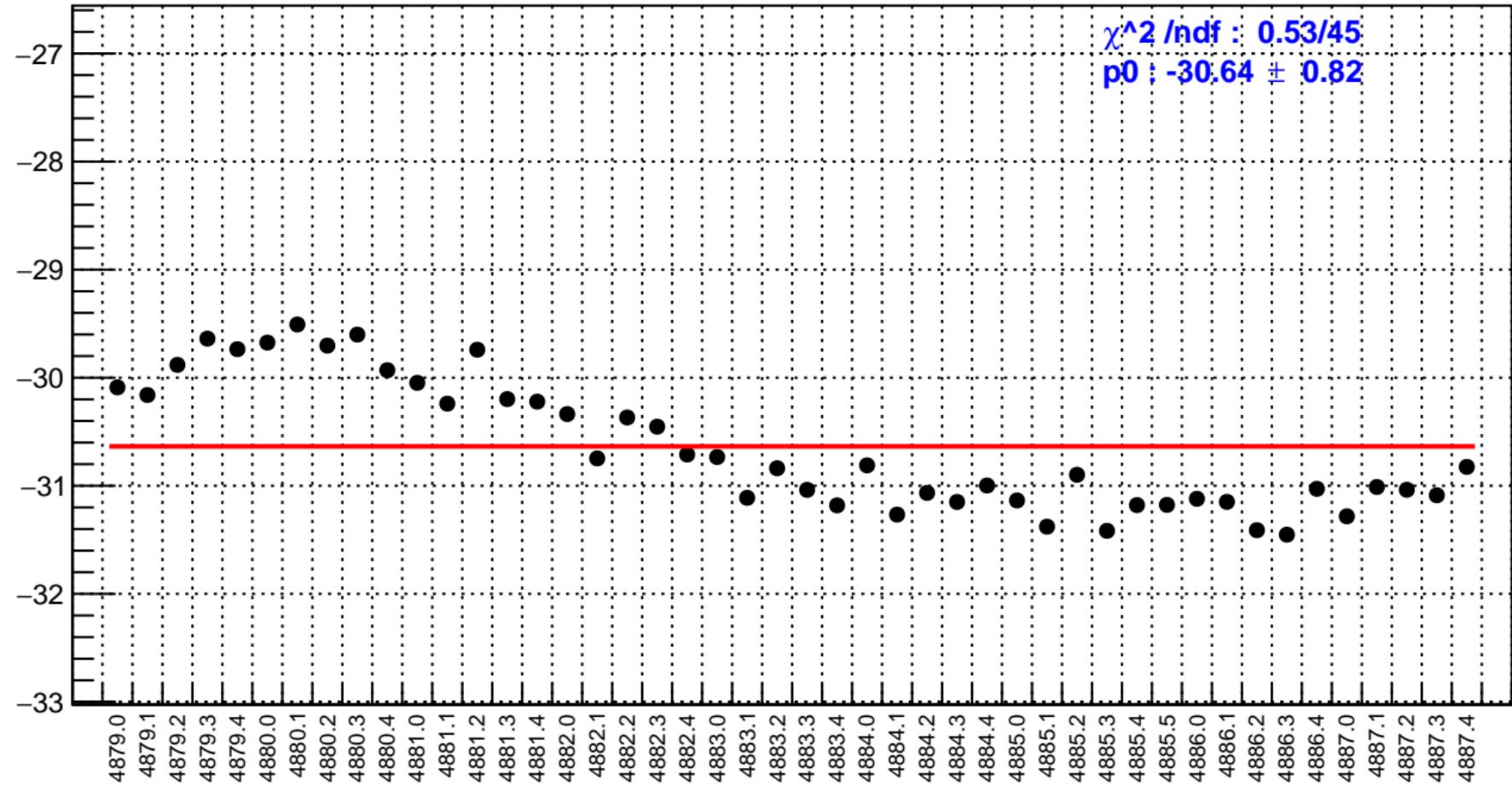
# slug89: ds\_avg\_bpm4aX/(ppb/nm)



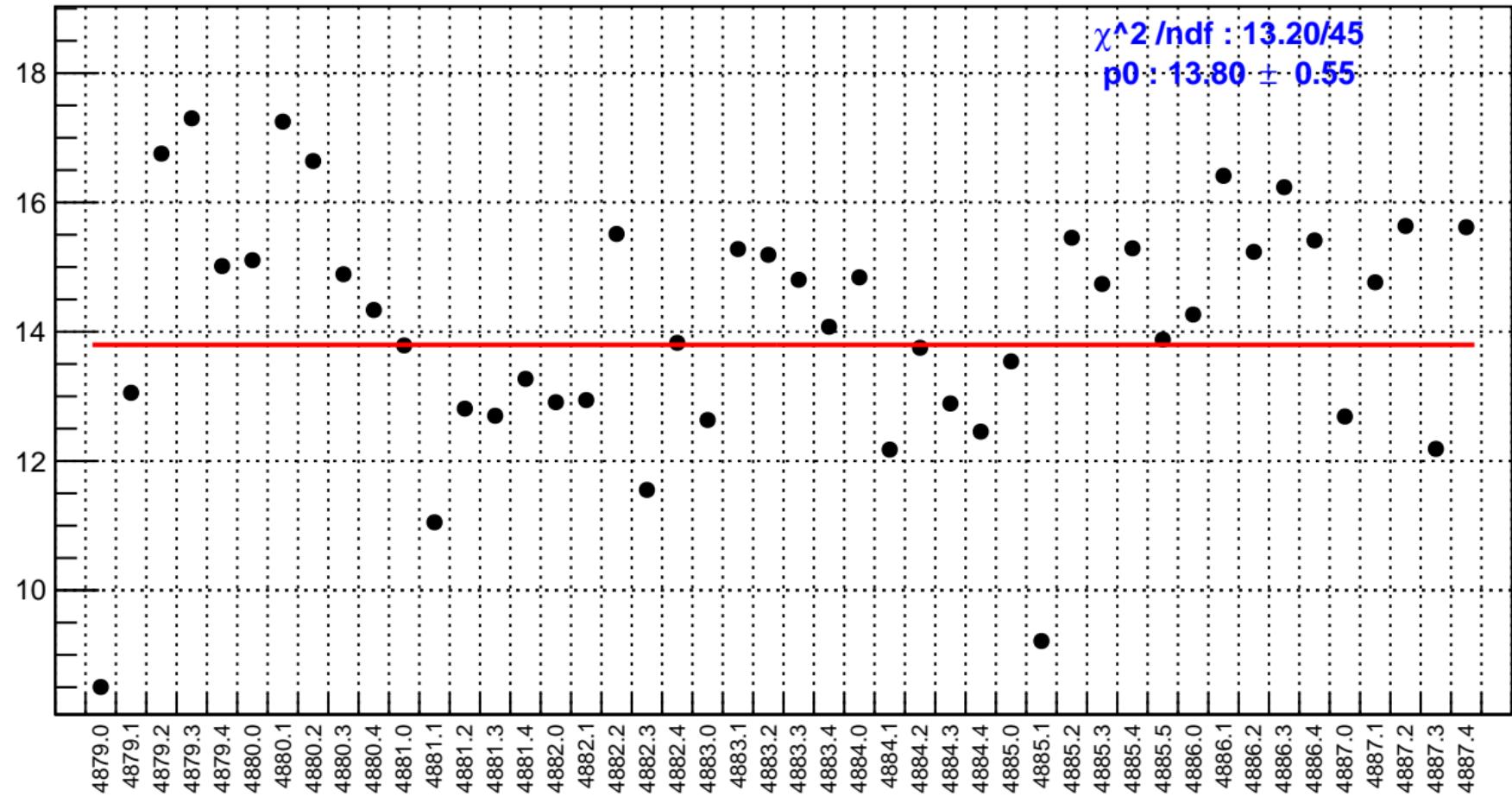
# slug89: ds\_avg\_bpm4aY/(ppb/nm)



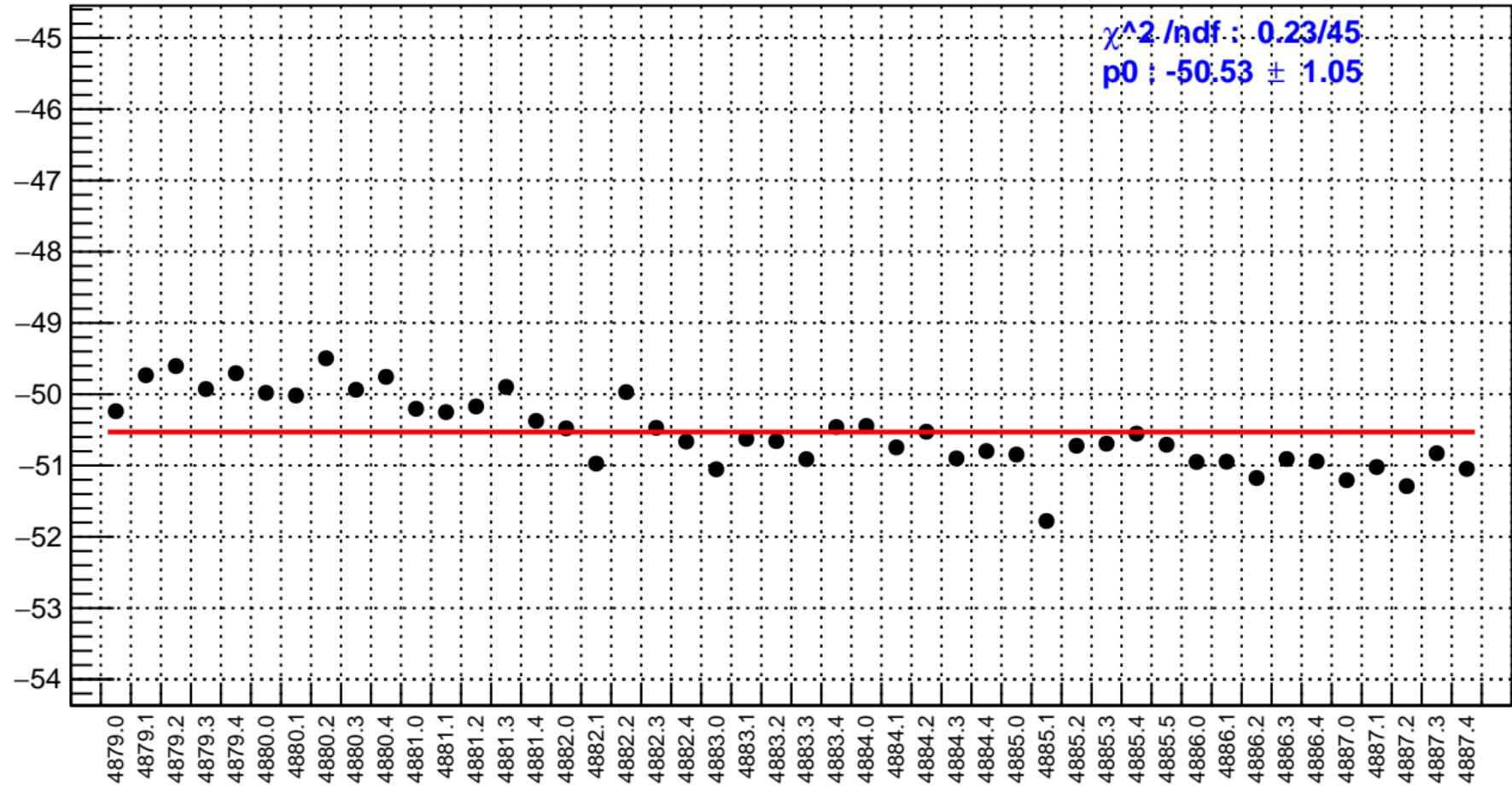
# slug89: ds\_avg\_bpm4eX/(ppb/nm)



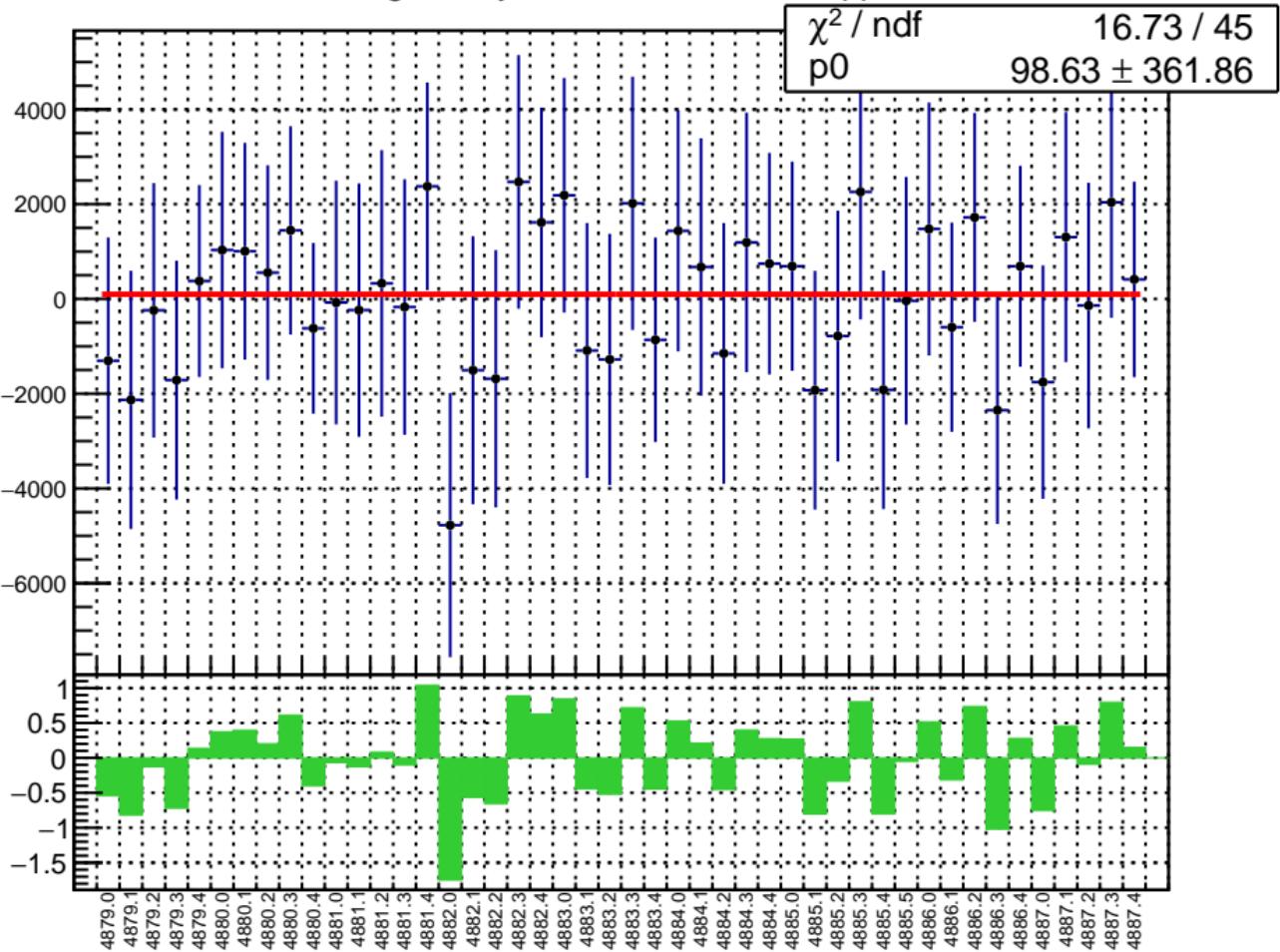
# slug89: ds\_avg\_bpm4eY/(ppb/nm)



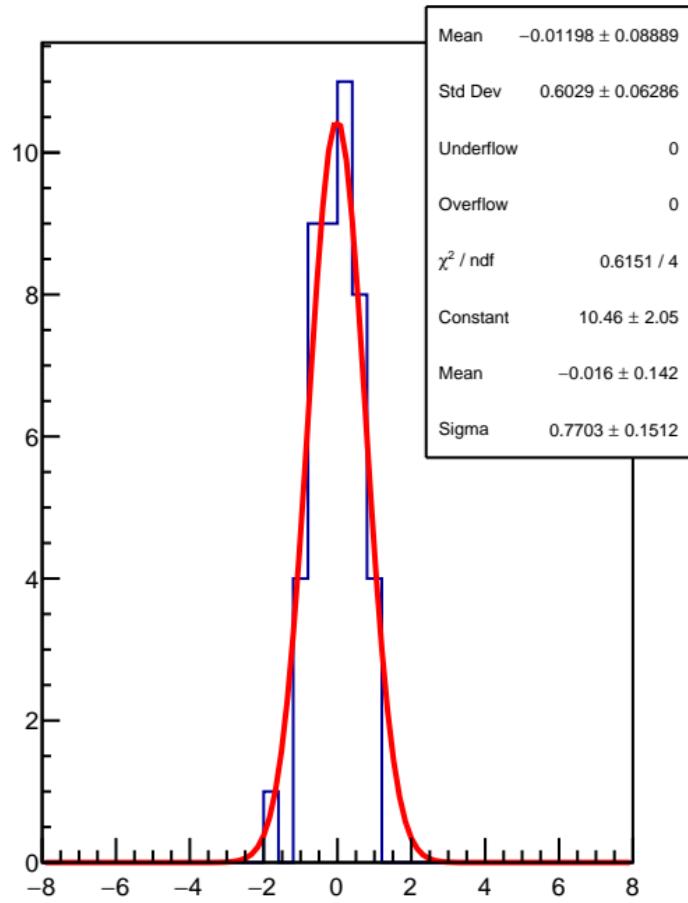
# slug89: ds\_avg\_bpm12X/(ppb/nm)



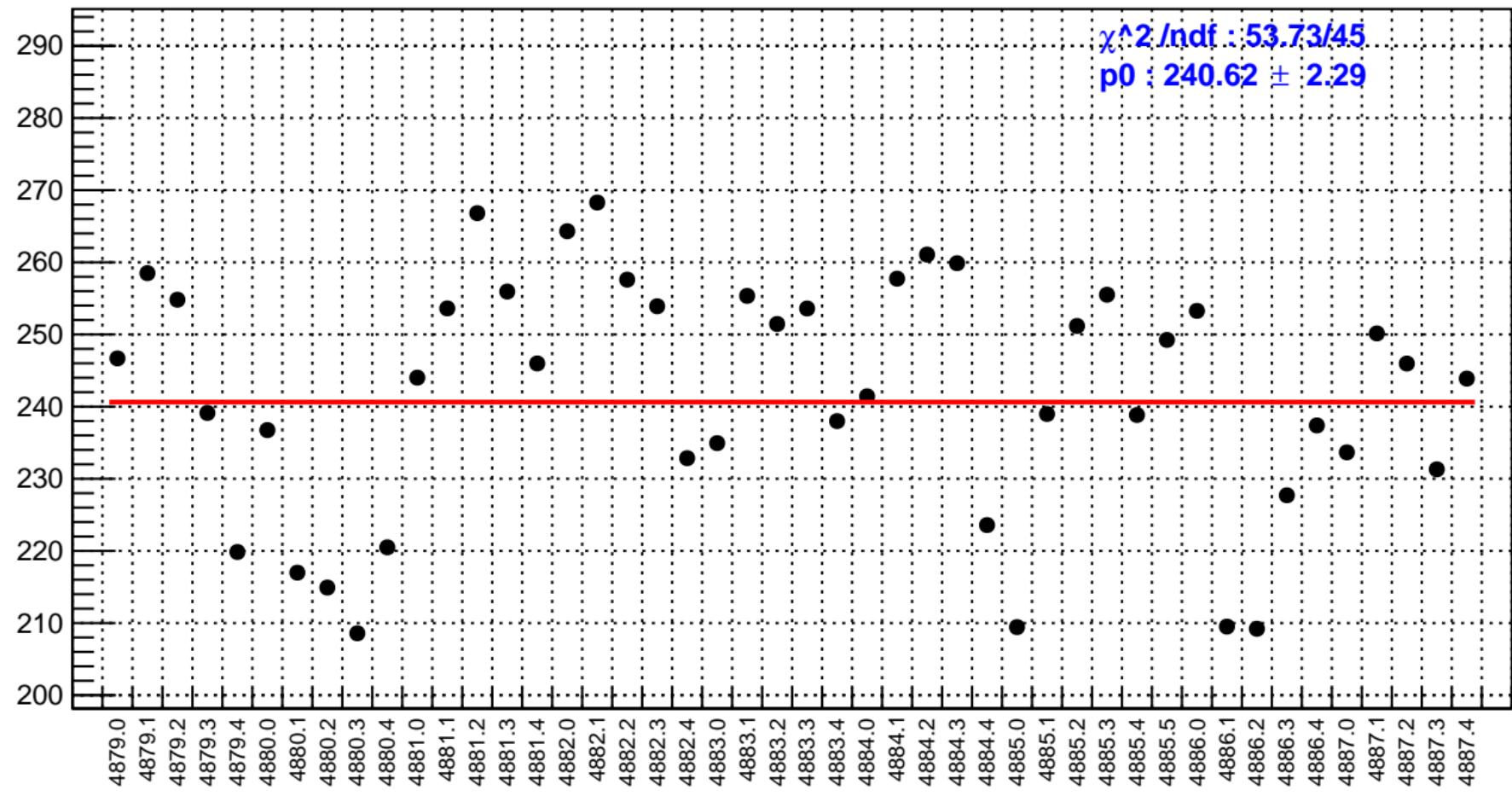
slug89: asym\_bcm\_an\_ds.mean/ppb



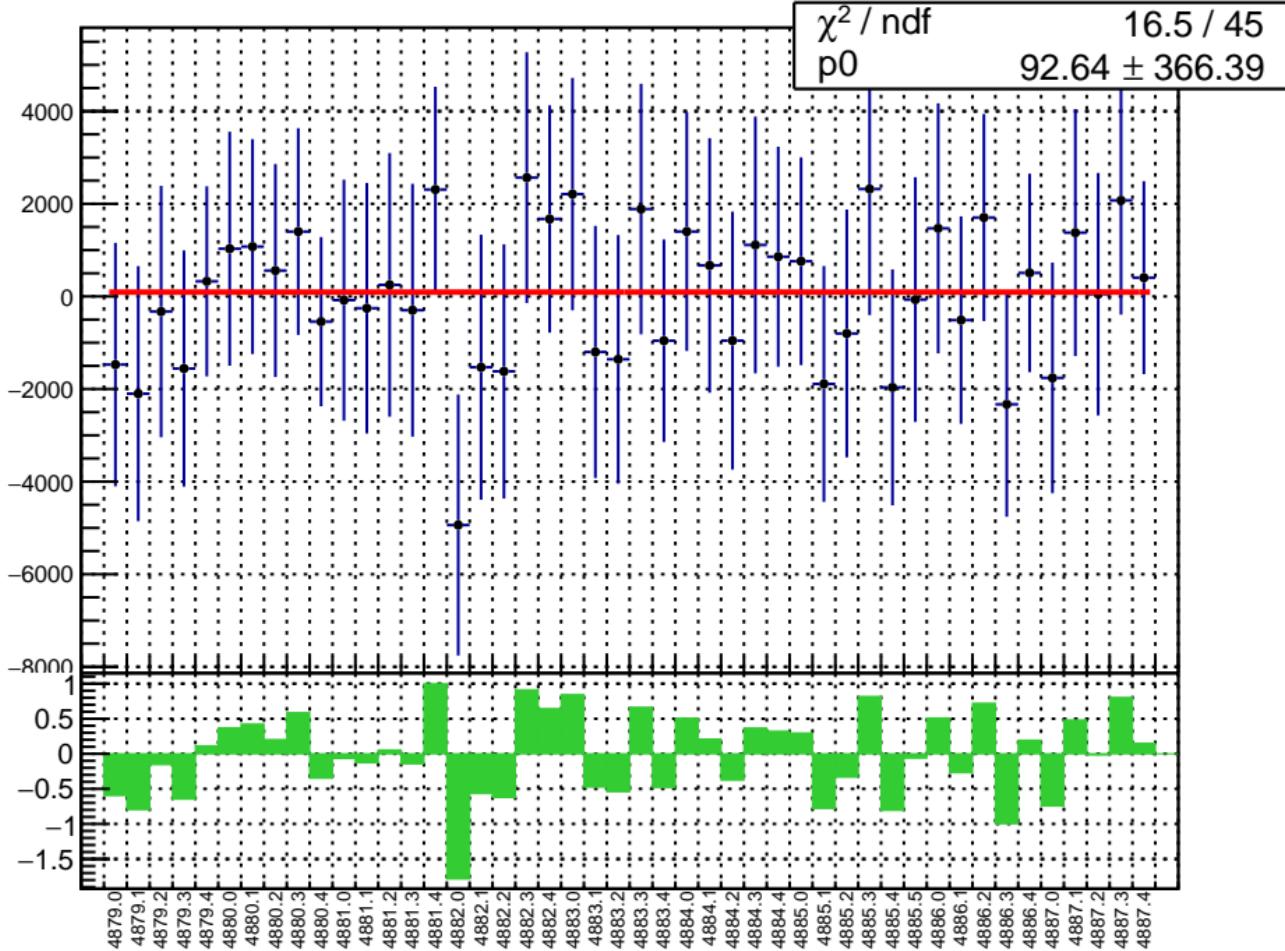
1D pull distribution



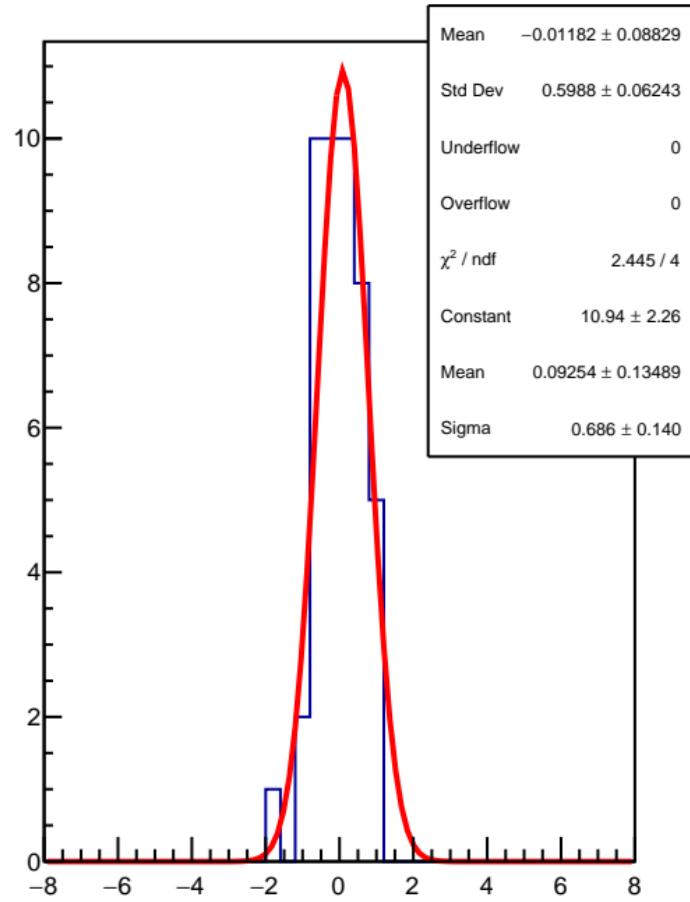
# slug89: asym\_bcm\_an\_ds.rms/ppm



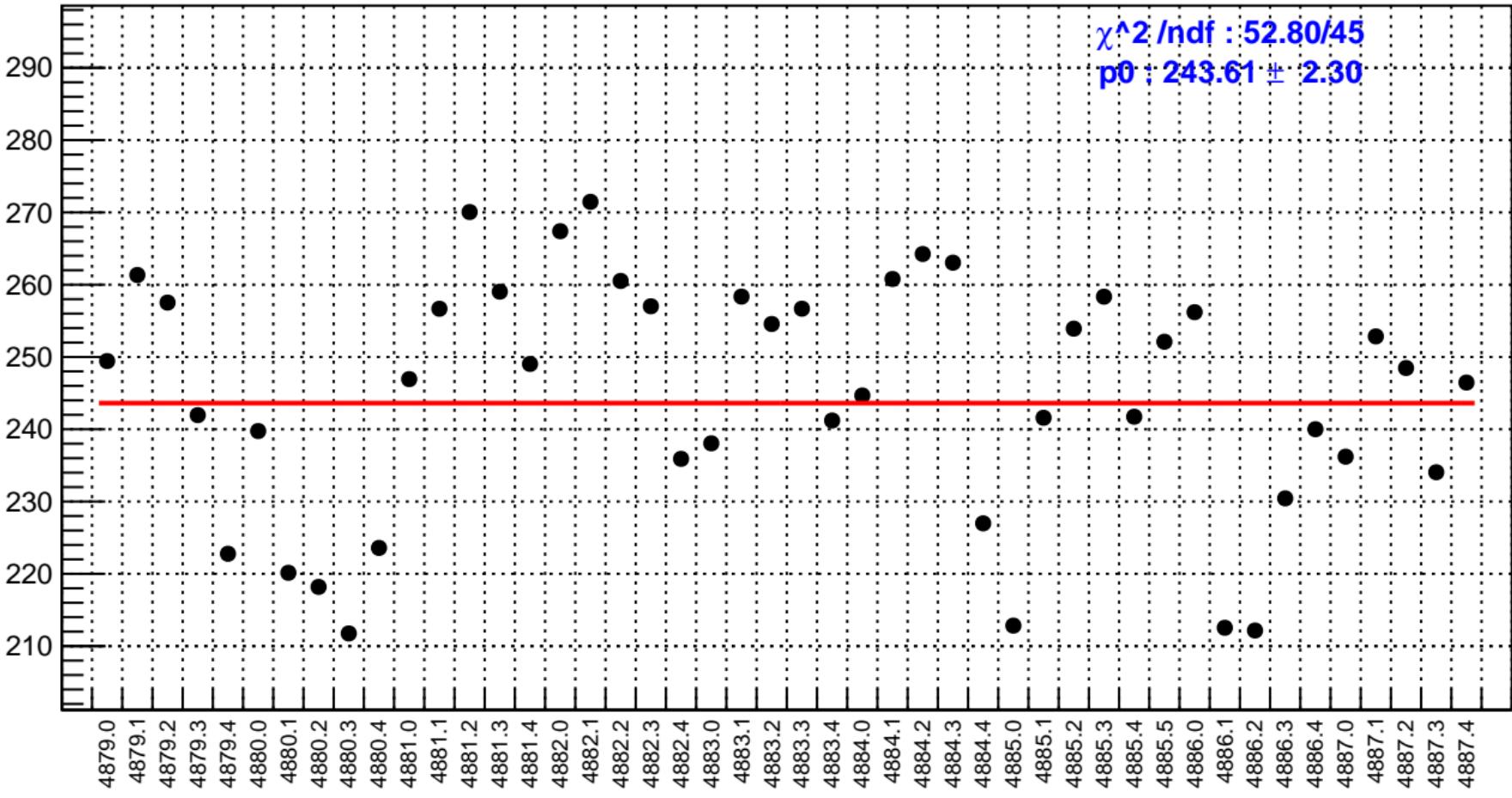
slug89: asym\_bcm\_an\_ds3.mean/ppb



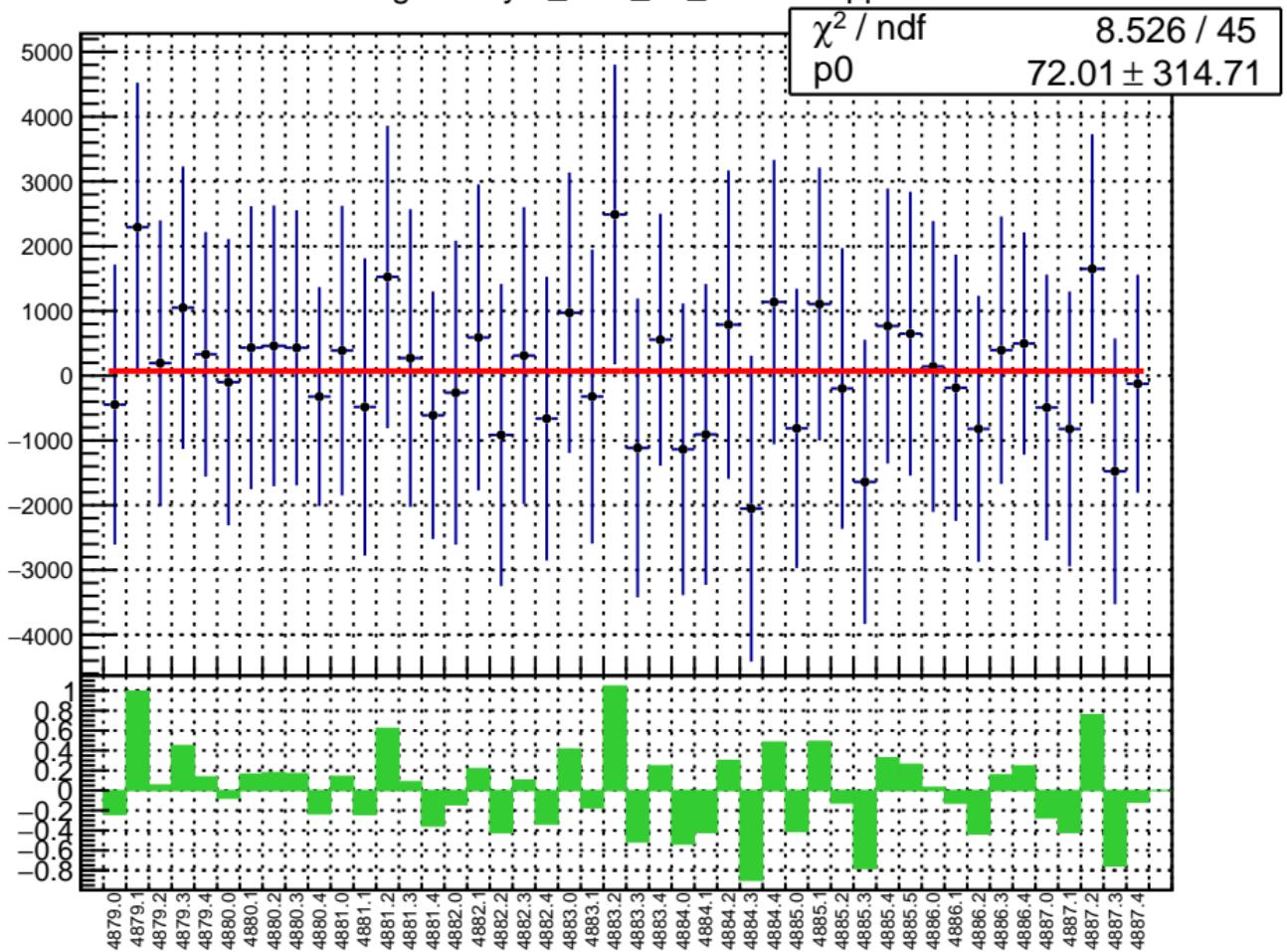
1D pull distribution



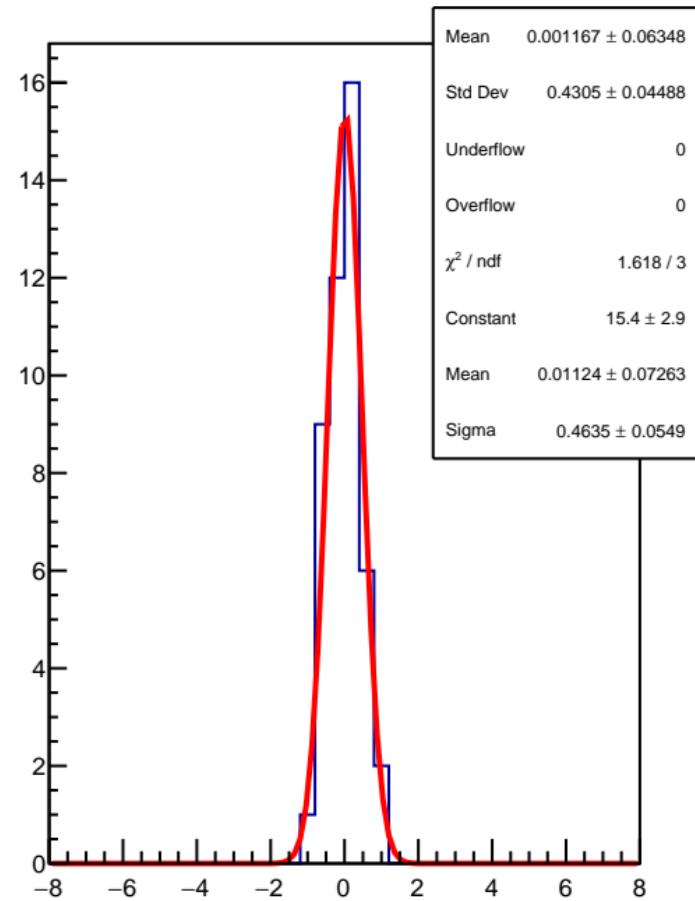
# slug89: asym\_bcm\_an\_ds3.rms/ppm



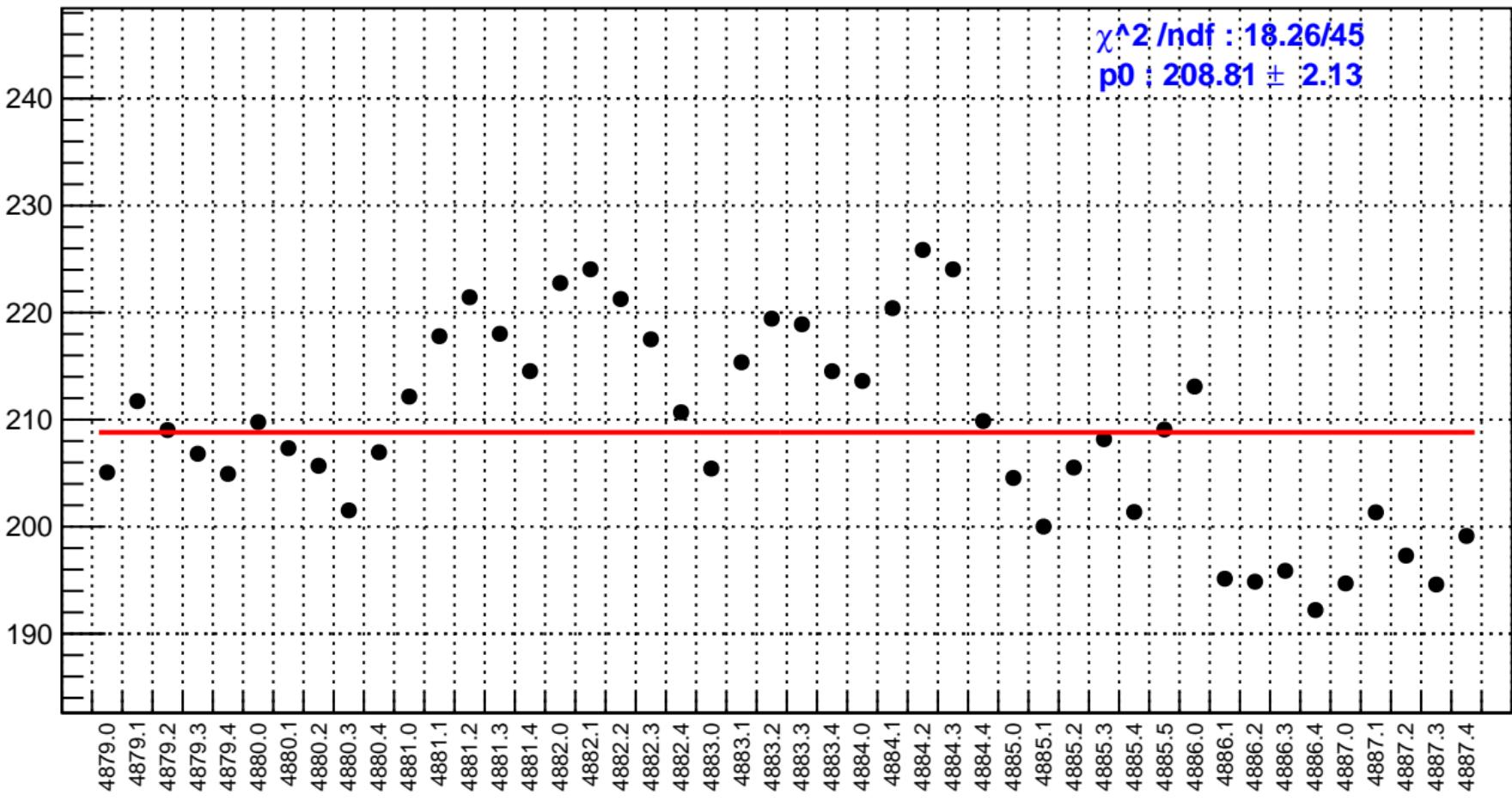
slug89: asym\_bcm\_an\_us.mean/ppb



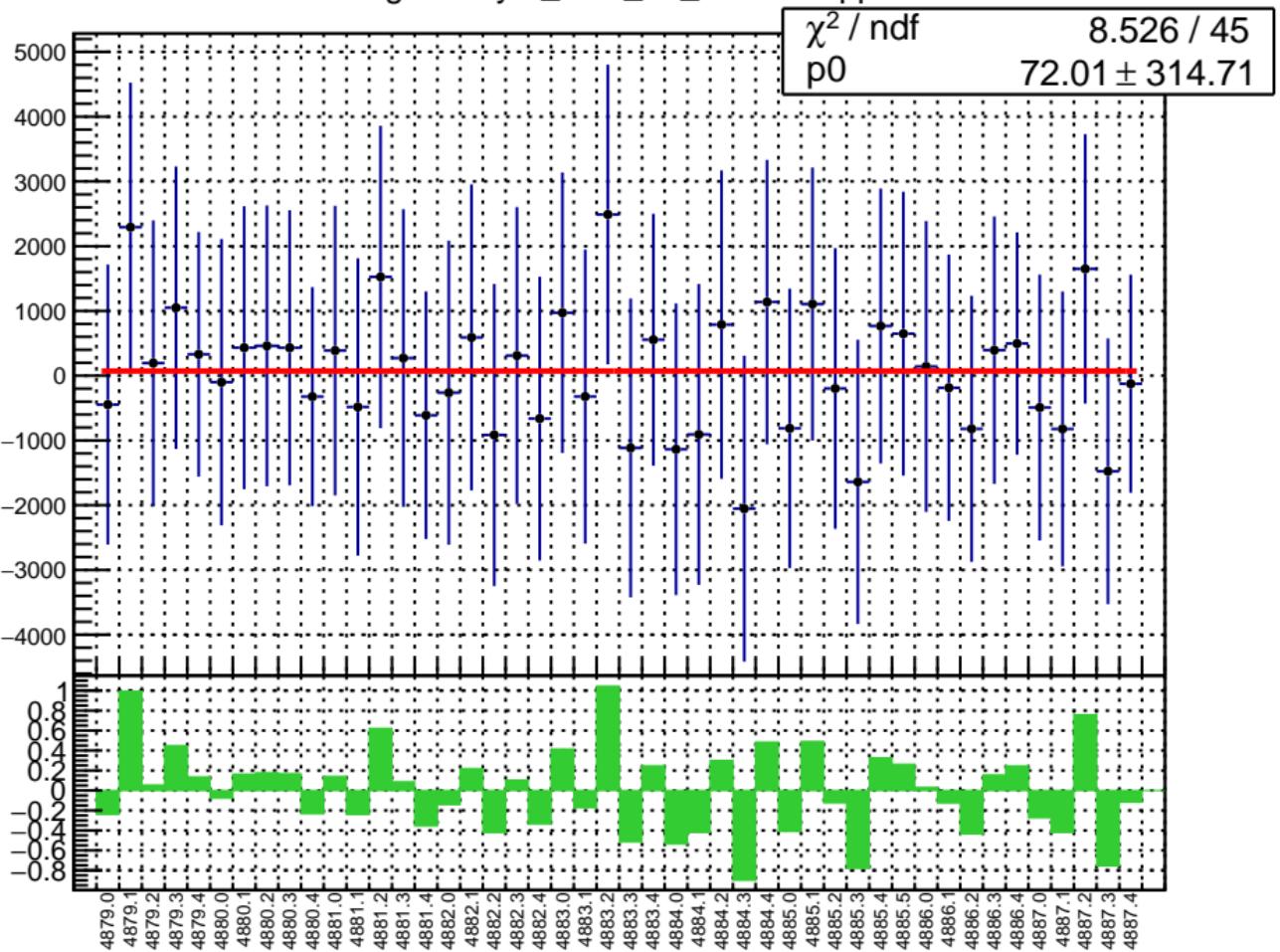
1D pull distribution



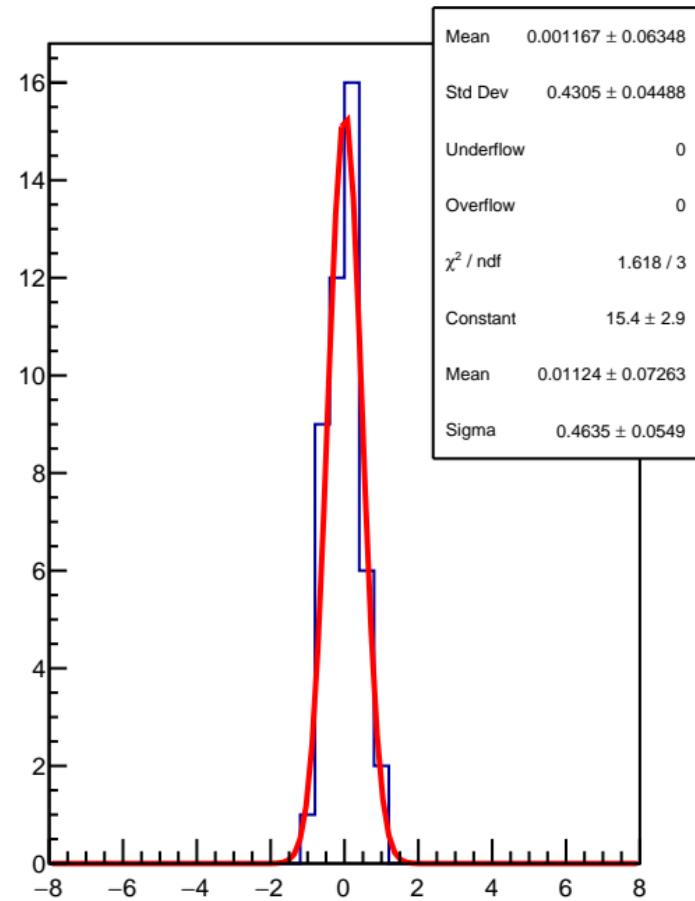
# slug89: asym\_bcm\_an\_us.rms/ppm



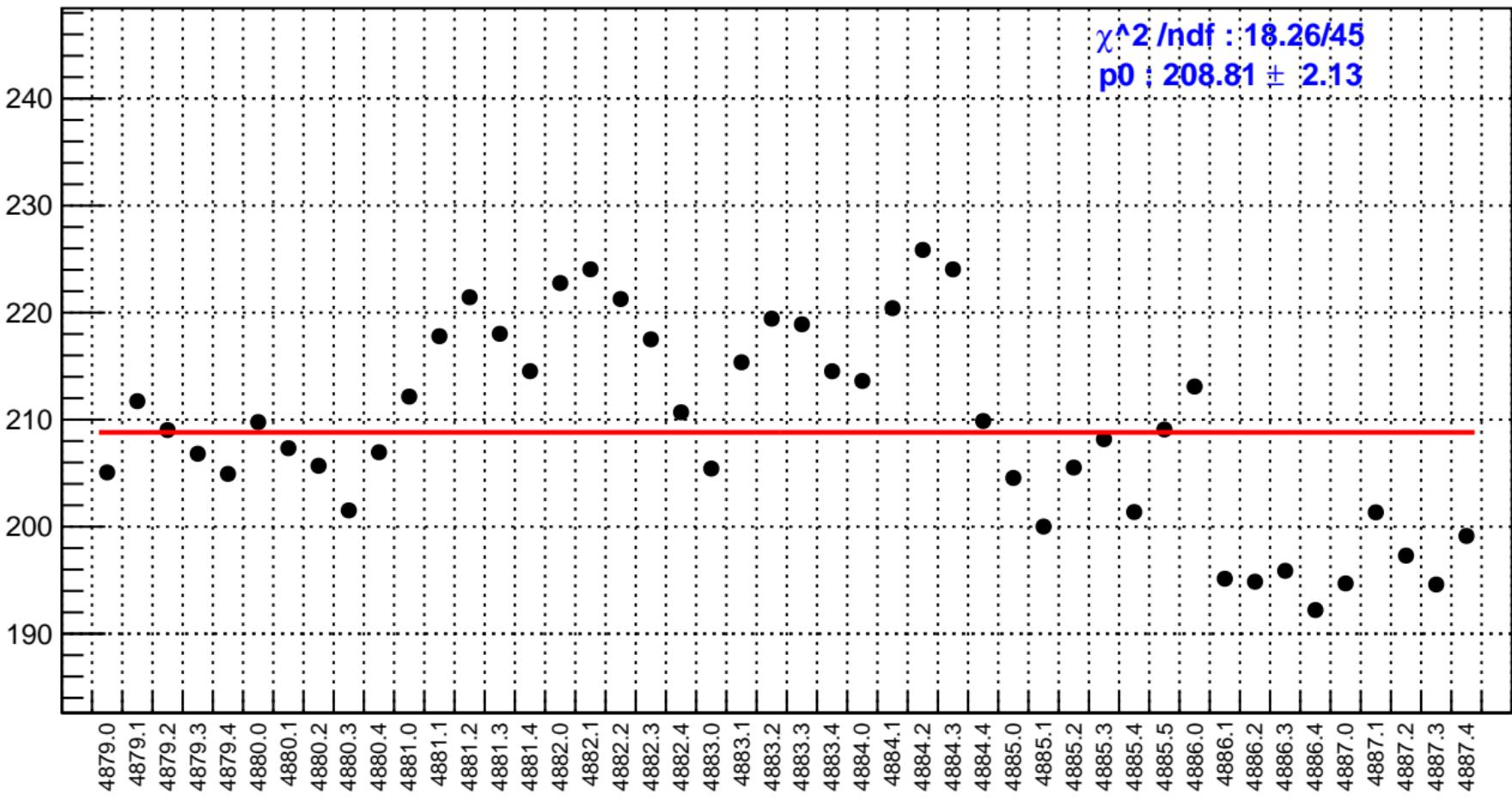
slug89: asym\_bcm\_an\_us.mean/ppb



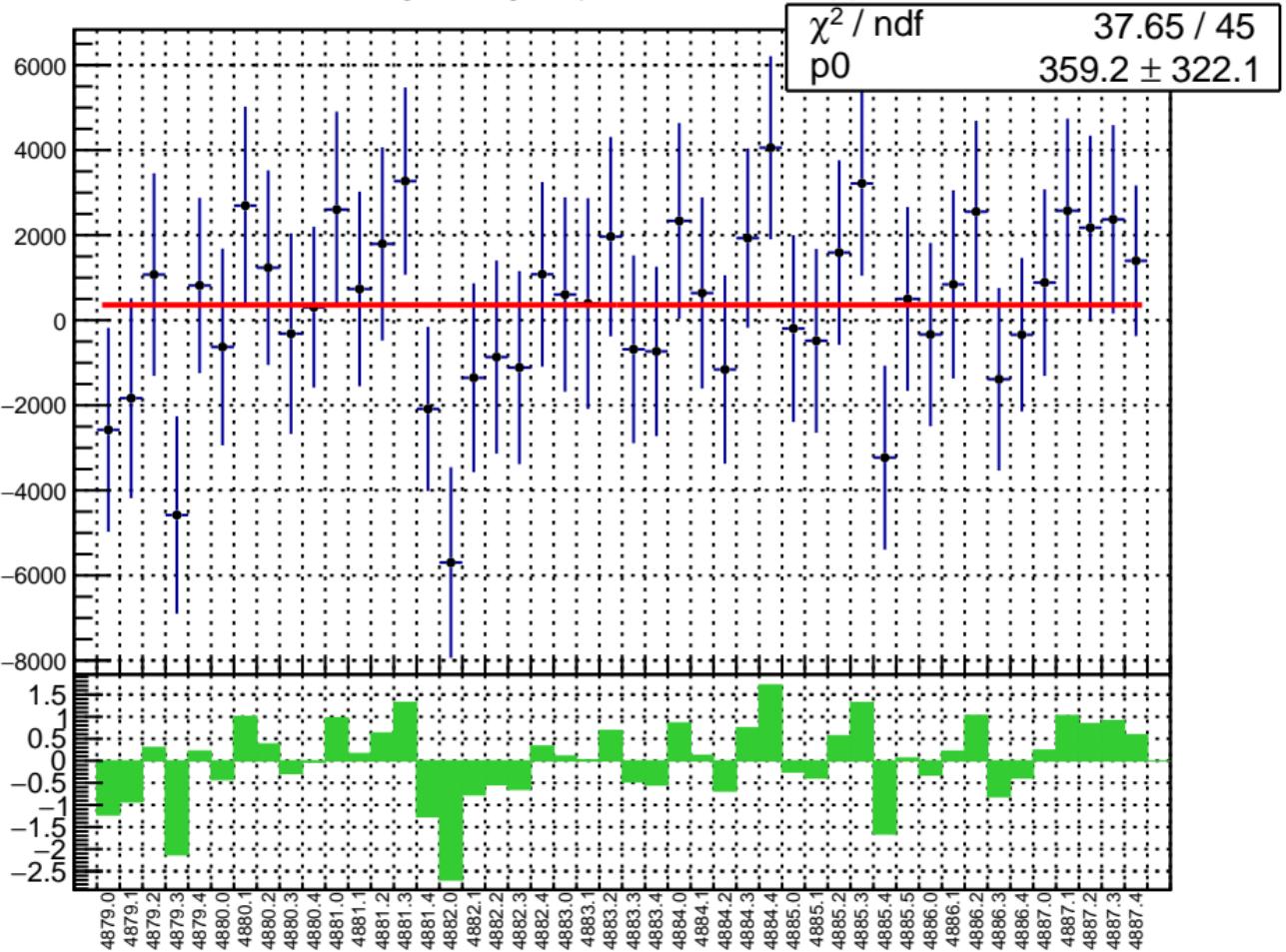
1D pull distribution



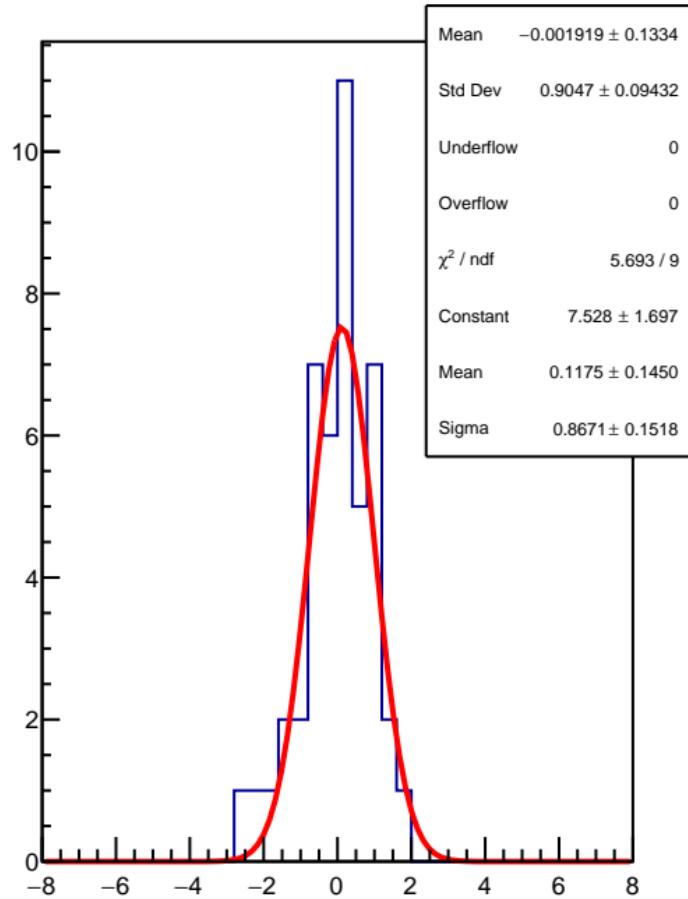
# slug89: asym\_bcm\_an\_us.rms/ppm



# slug89: reg\_asym\_sam1.mean/ppb

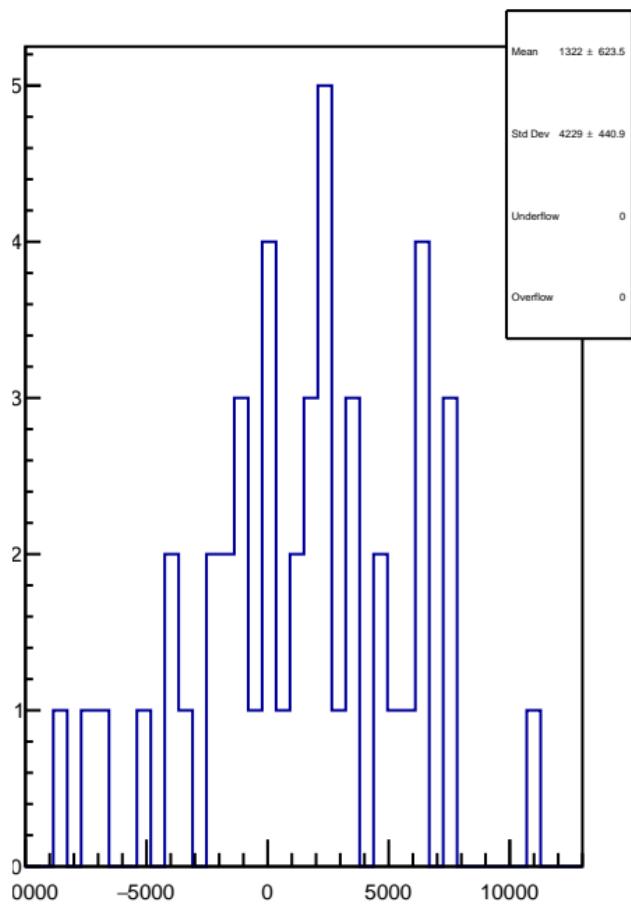
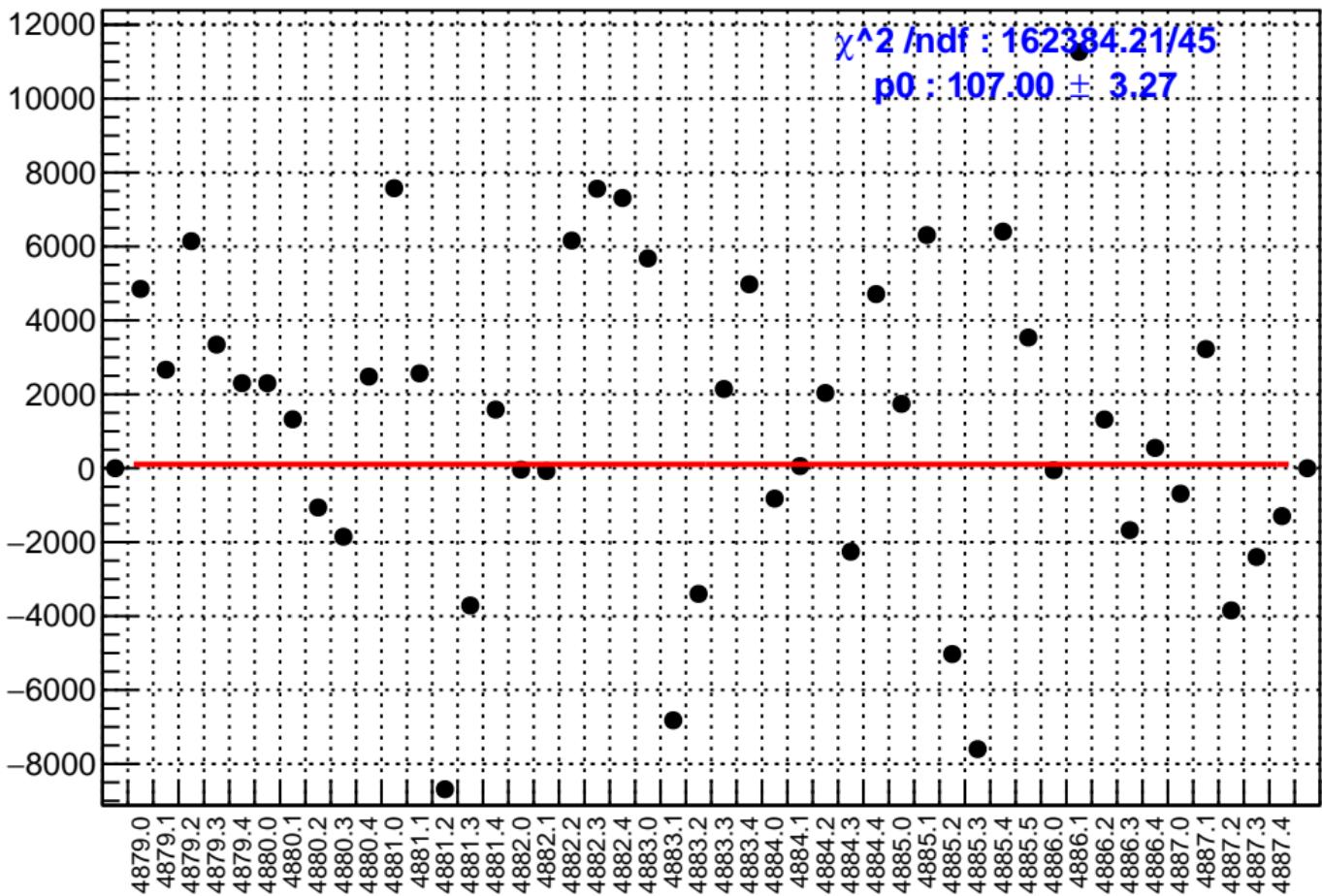


# 1D pull distribution

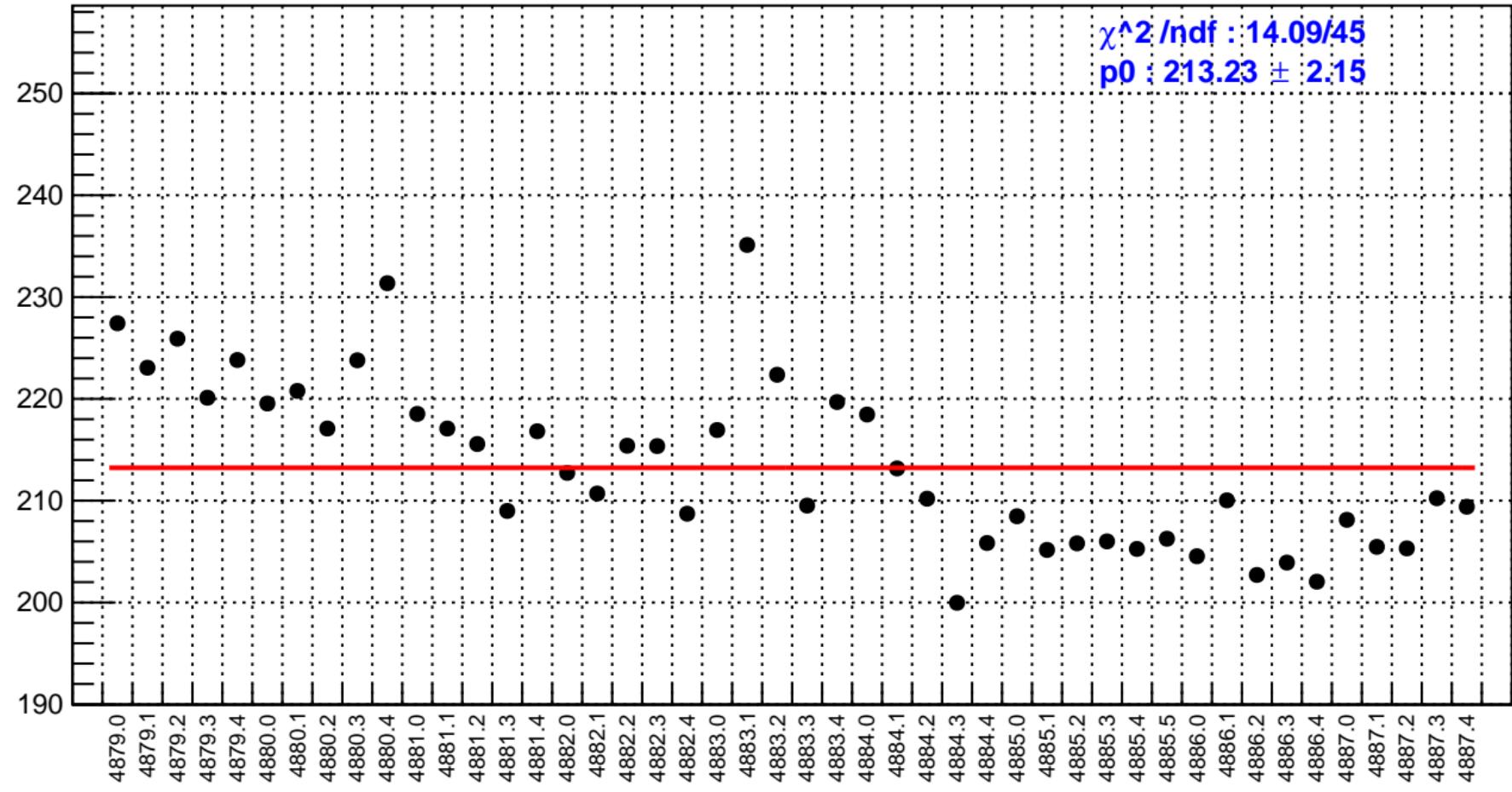


slug89: asym\_sam1.mean/ppb-reg\_asym\_sam1.mean/ppb

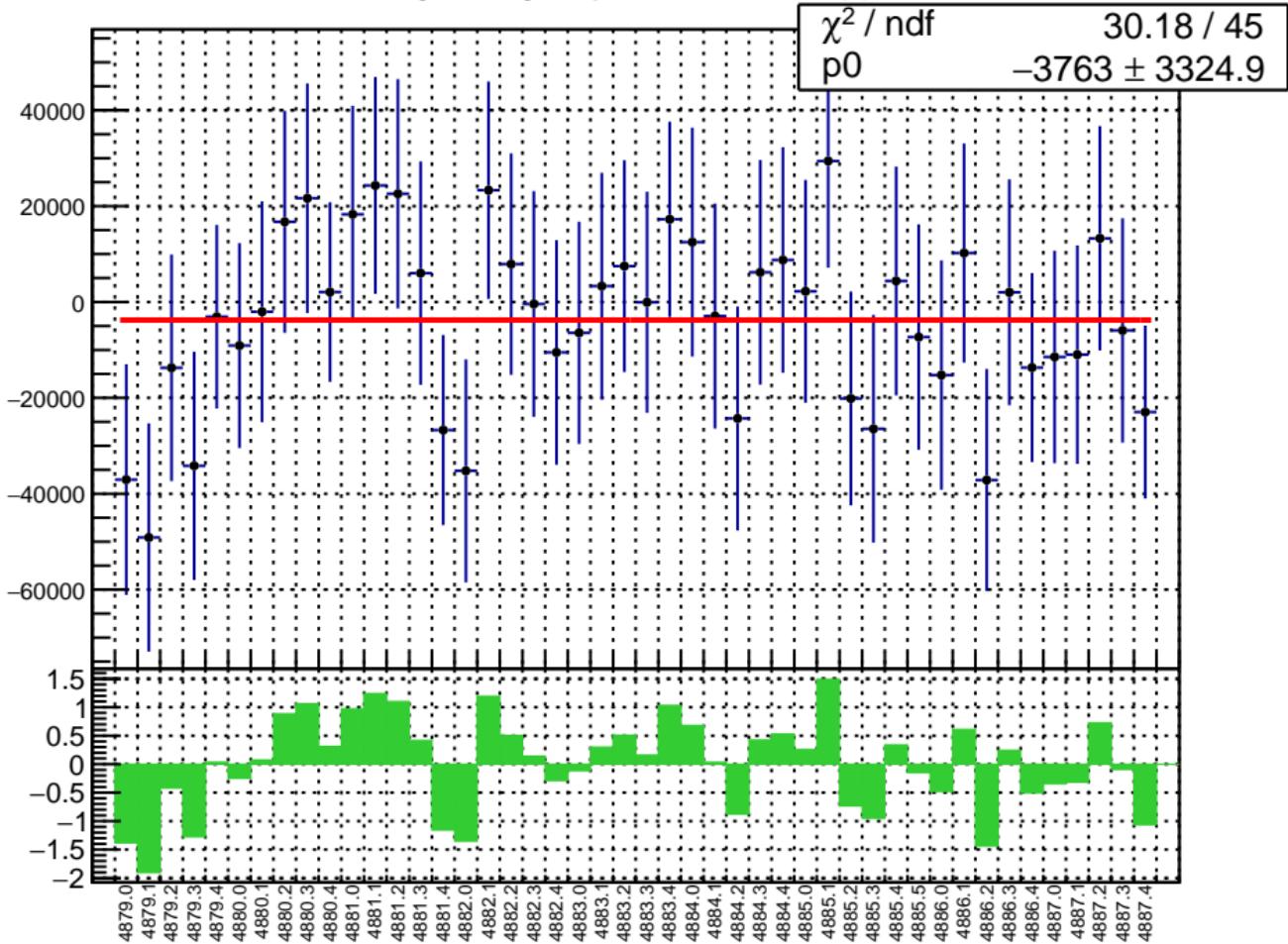
slug89: 1D Corr asym\_sam1.mean/ppb-reg\_asym\_sam1.mean/ppb



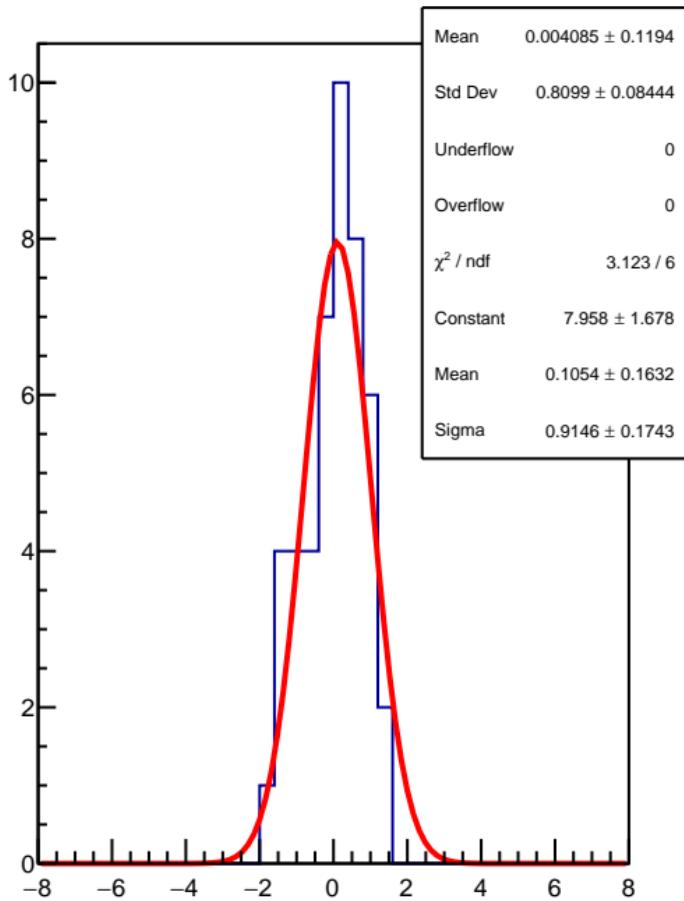
# slug89: reg\_asym\_sam1.rms/ppm



## slug89: reg\_asym\_sam2.mean/ppb

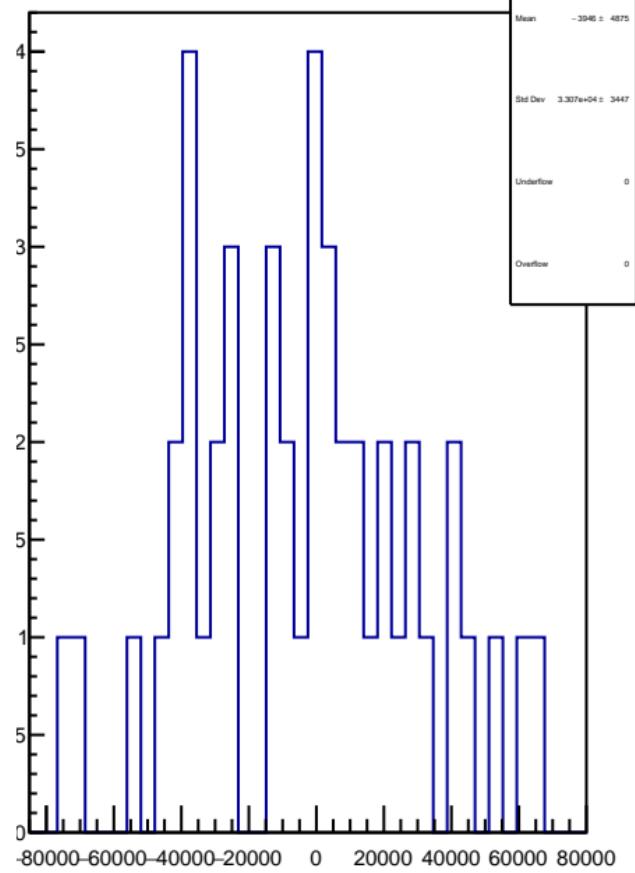
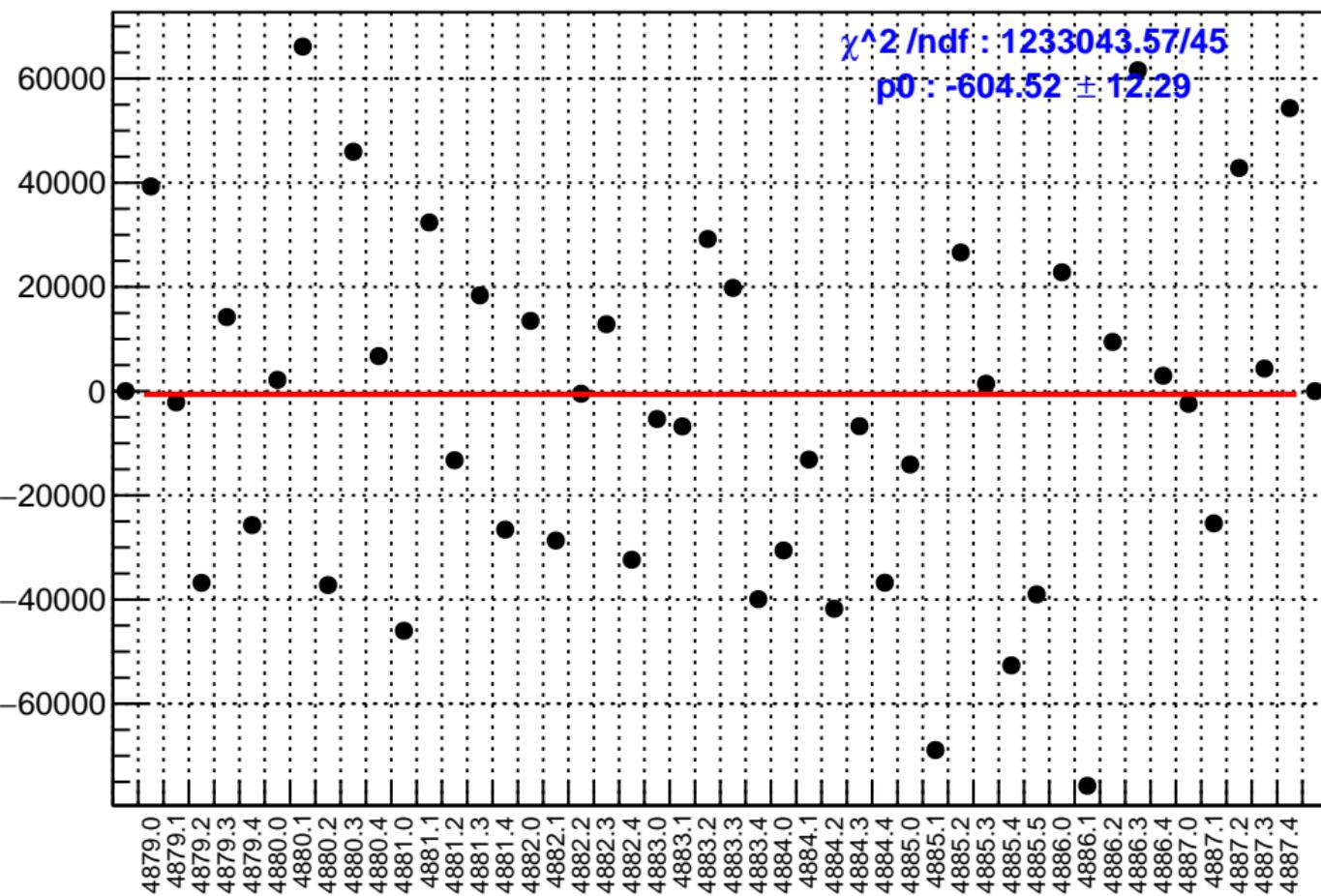


## 1D pull distribution

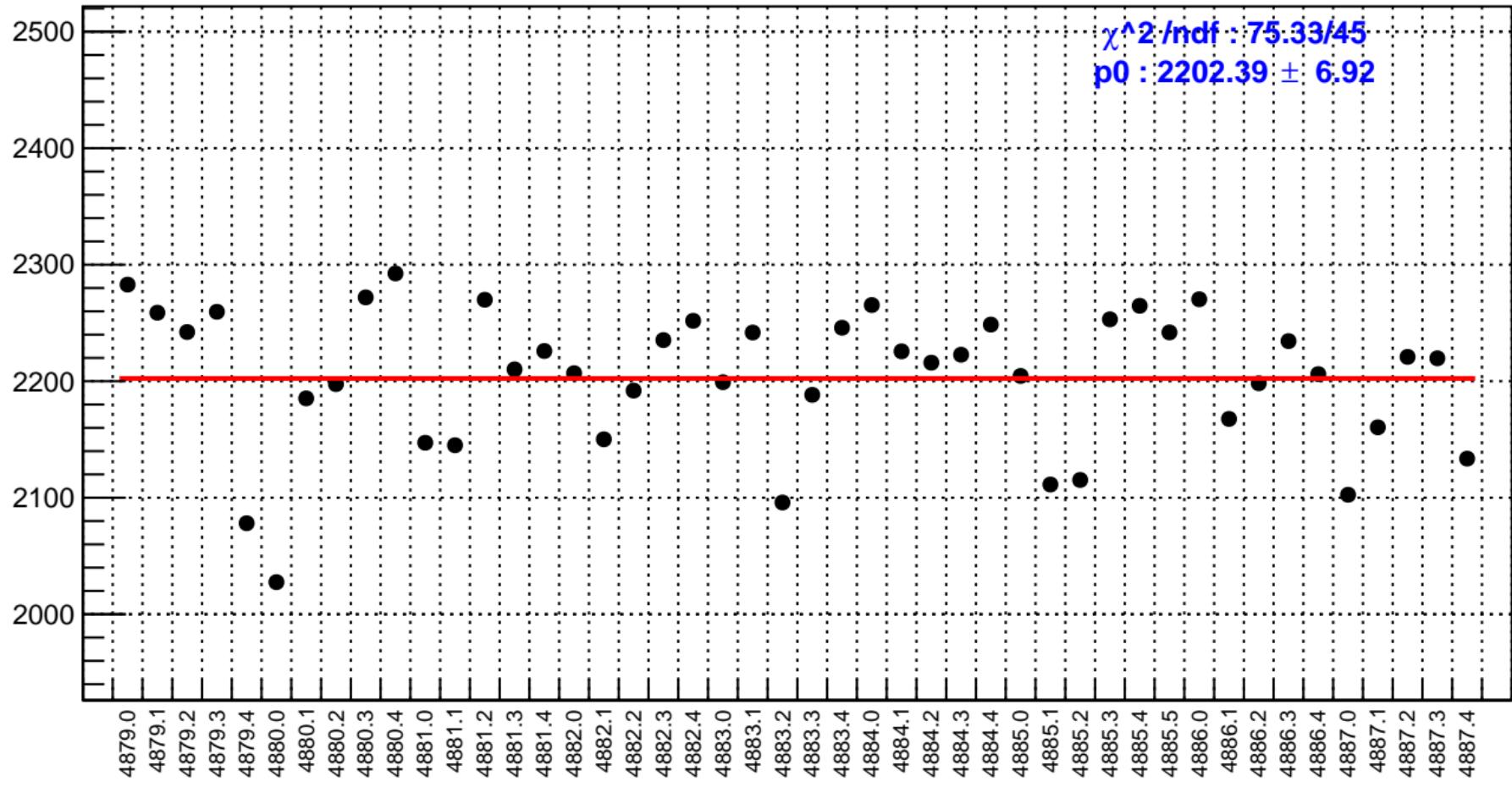


slug89: asym\_sam2.mean/ppb-reg\_asym\_sam2.mean/ppb

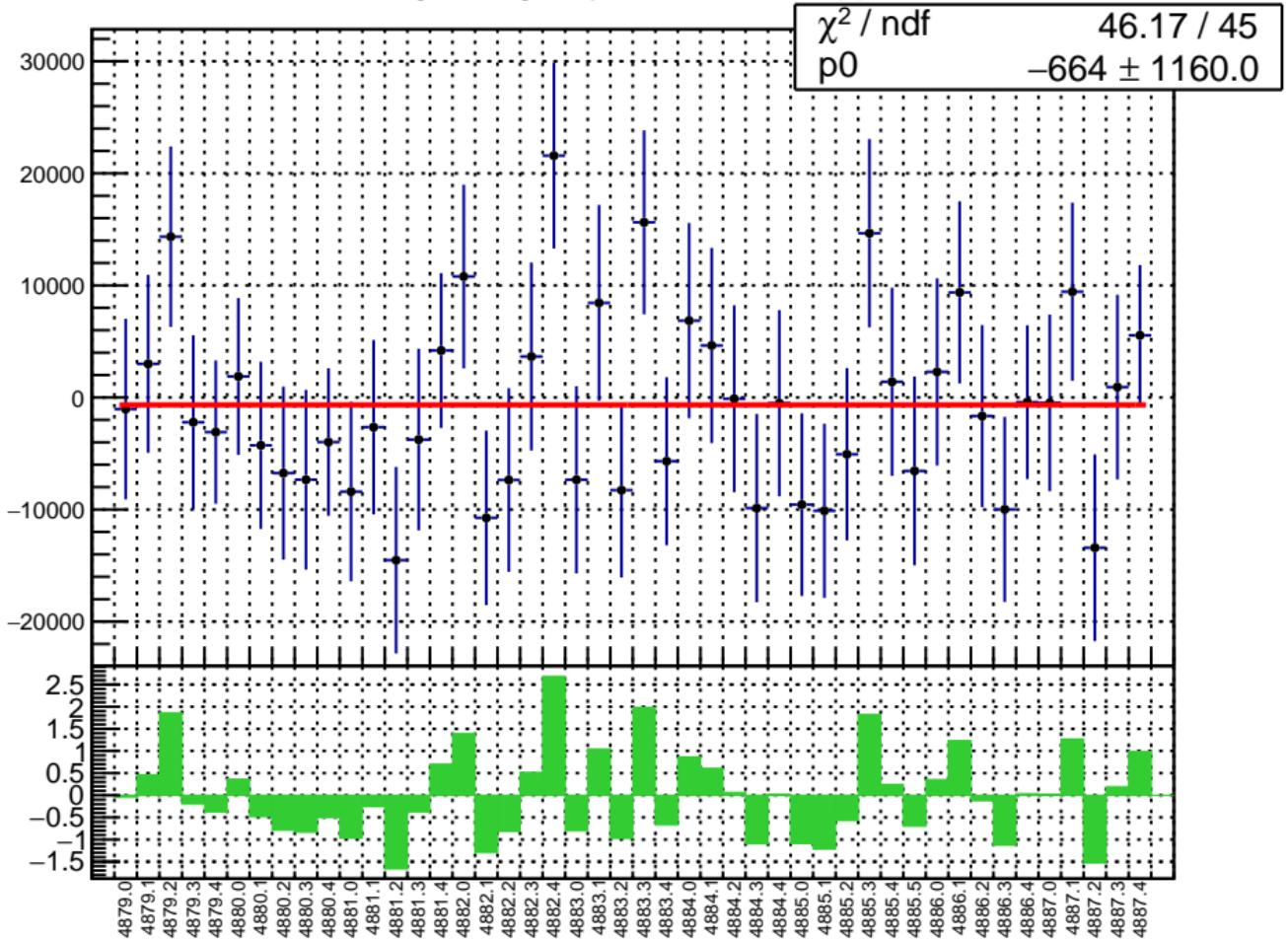
slug89: 1D Corr asym\_sam2.mean/ppb-reg\_asym\_sam2.mean/ppb



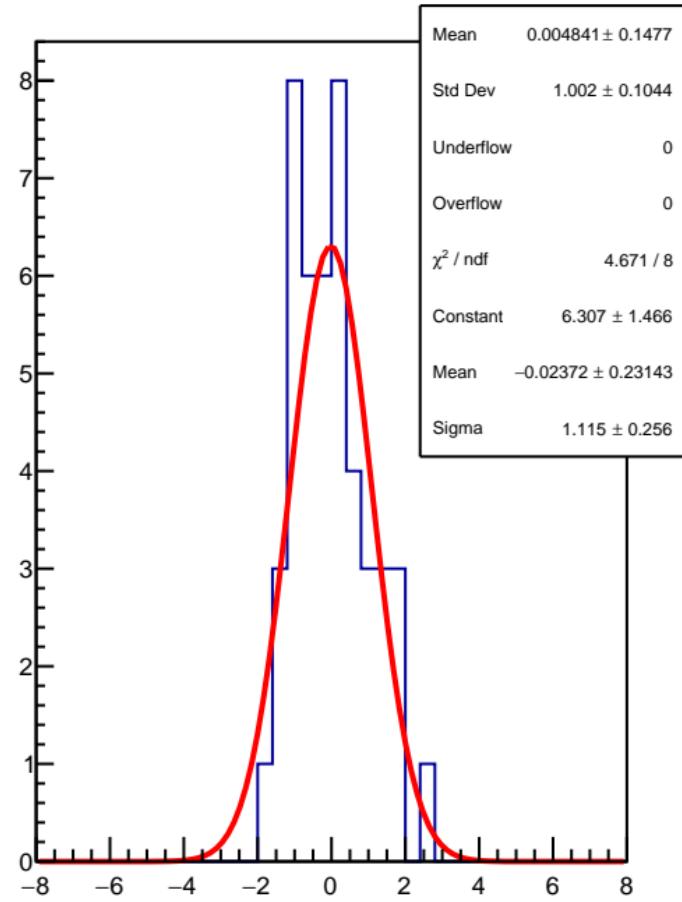
# slug89: reg\_asym\_sam2.rms/ppm



# slug89: reg\_asym\_sam3.mean/ppb

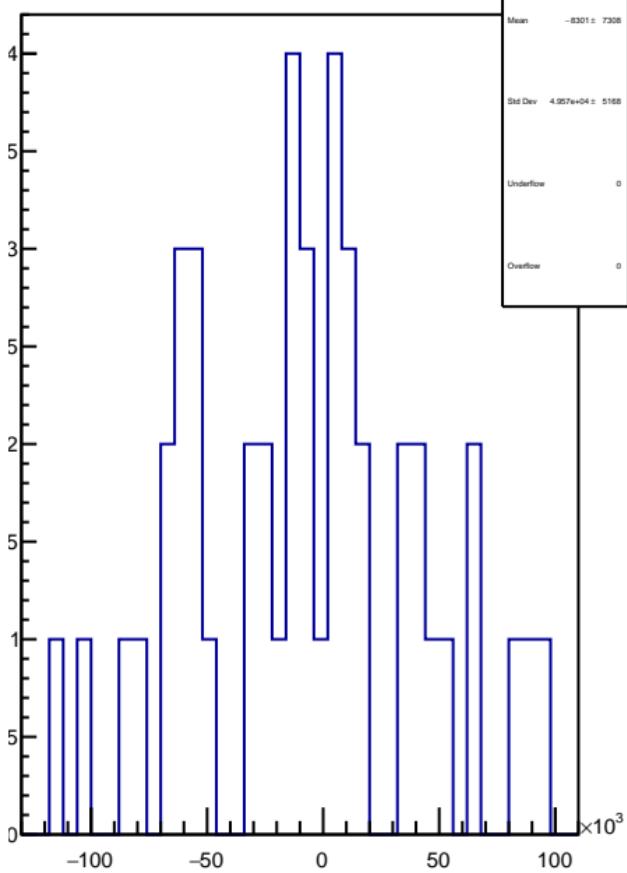
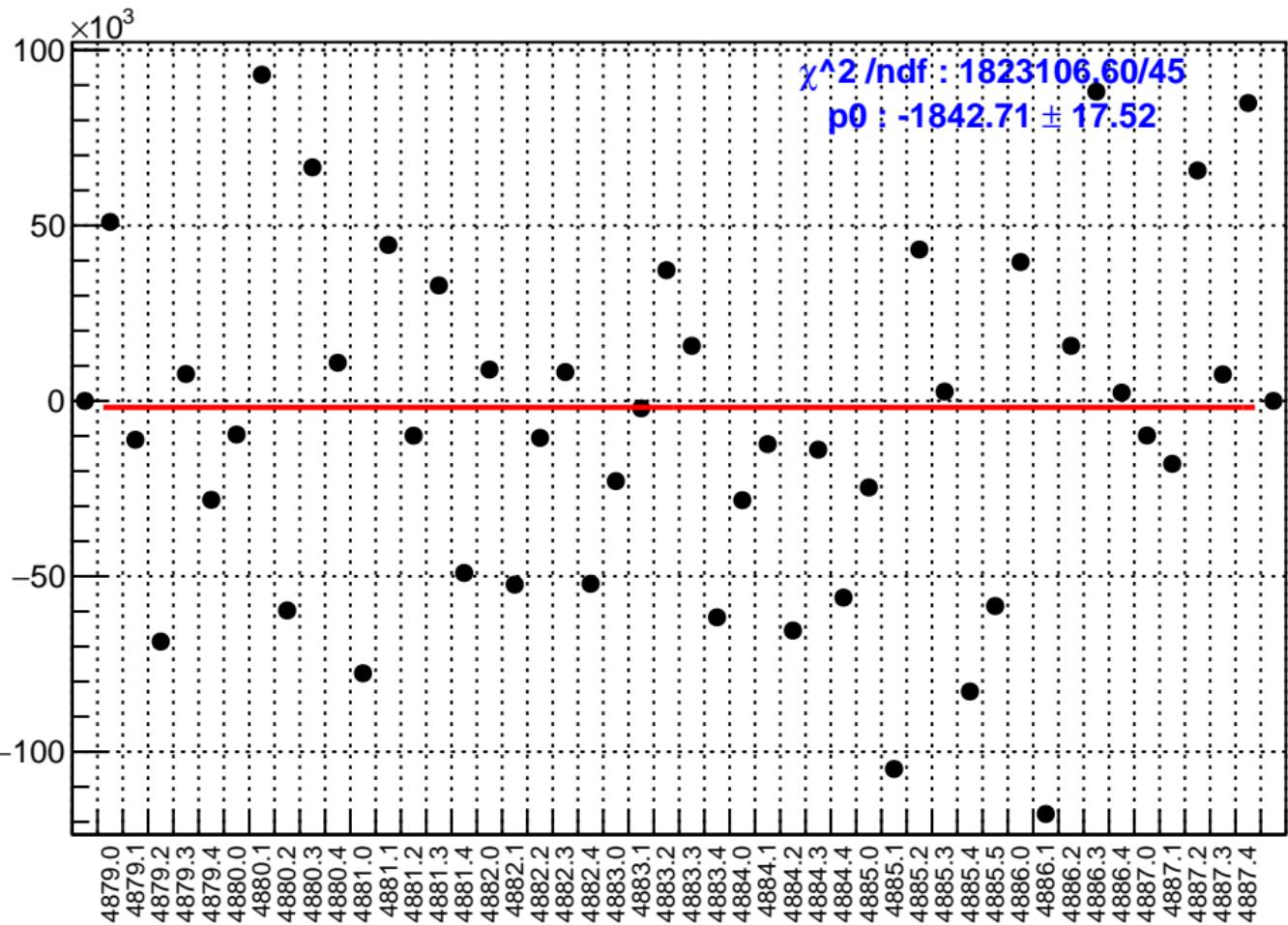


# 1D pull distribution

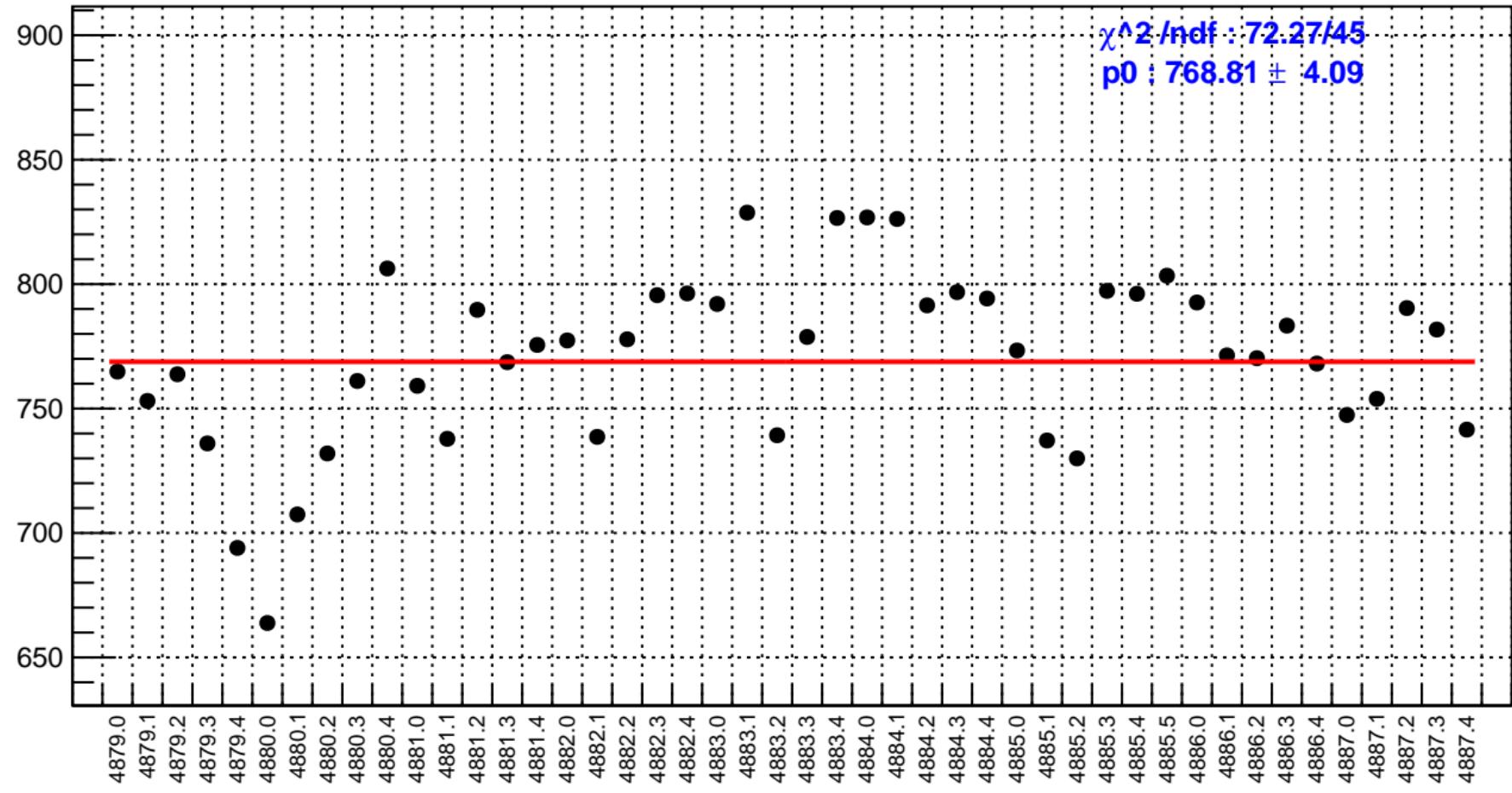


slug89: asym\_sam3.mean/ppb-reg\_asym\_sam3.mean/ppb

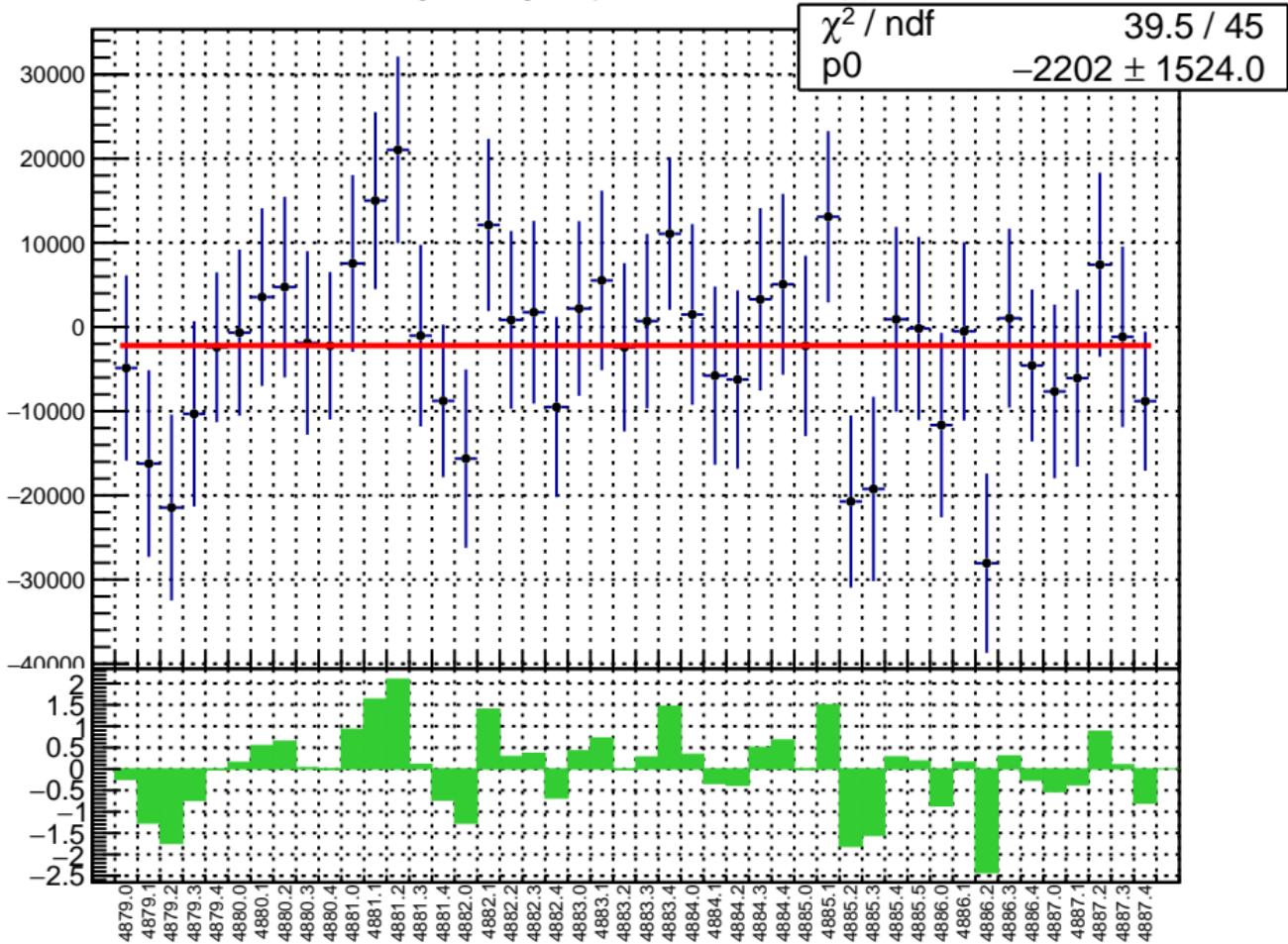
slug89: 1D Corr asym\_sam3.mean/ppb-reg\_asym\_sam3.mean/ppb



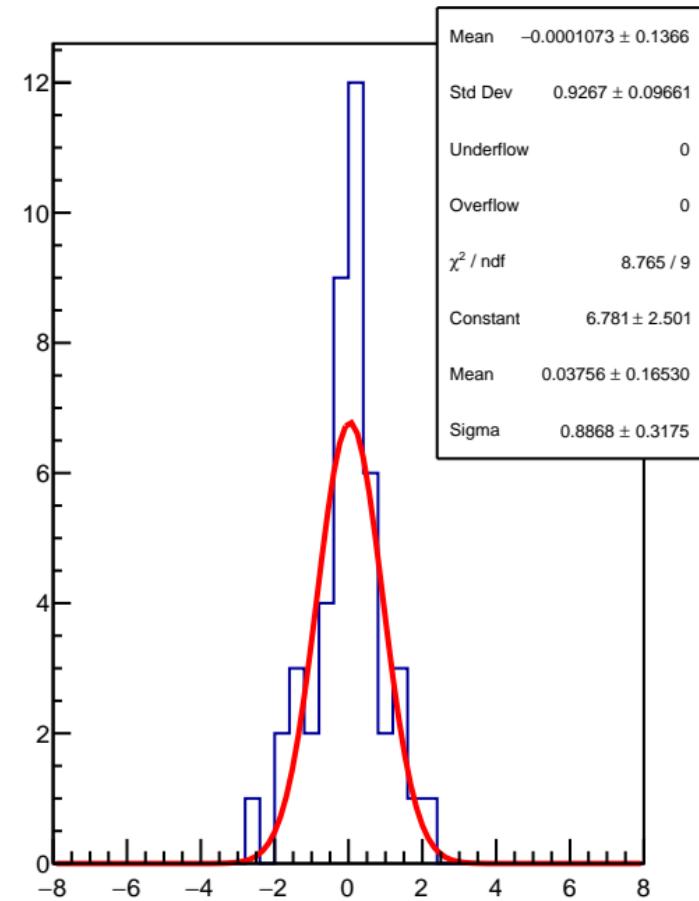
# slug89: reg\_asym\_sam3.rms/ppm



# slug89: reg\_asym\_sam4.mean/ppb

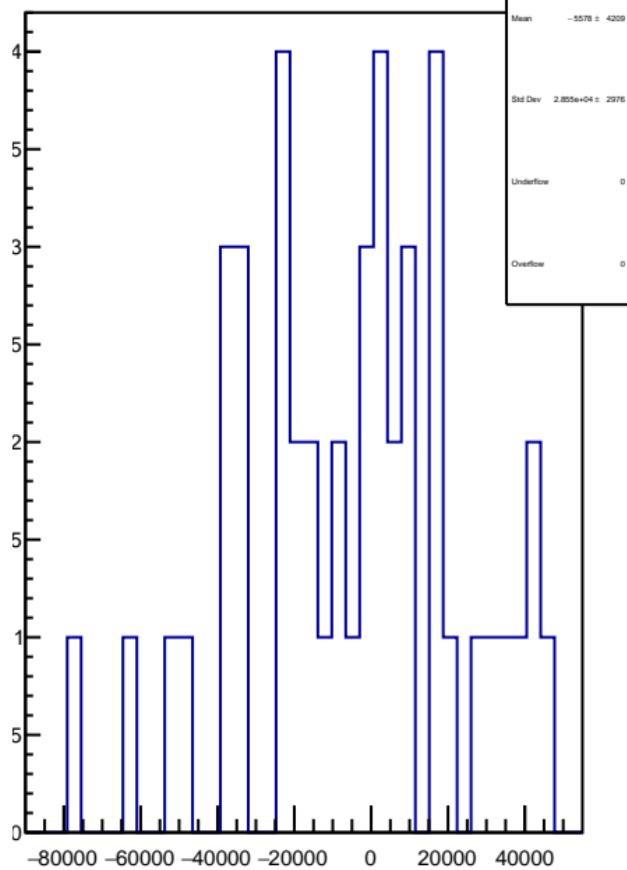
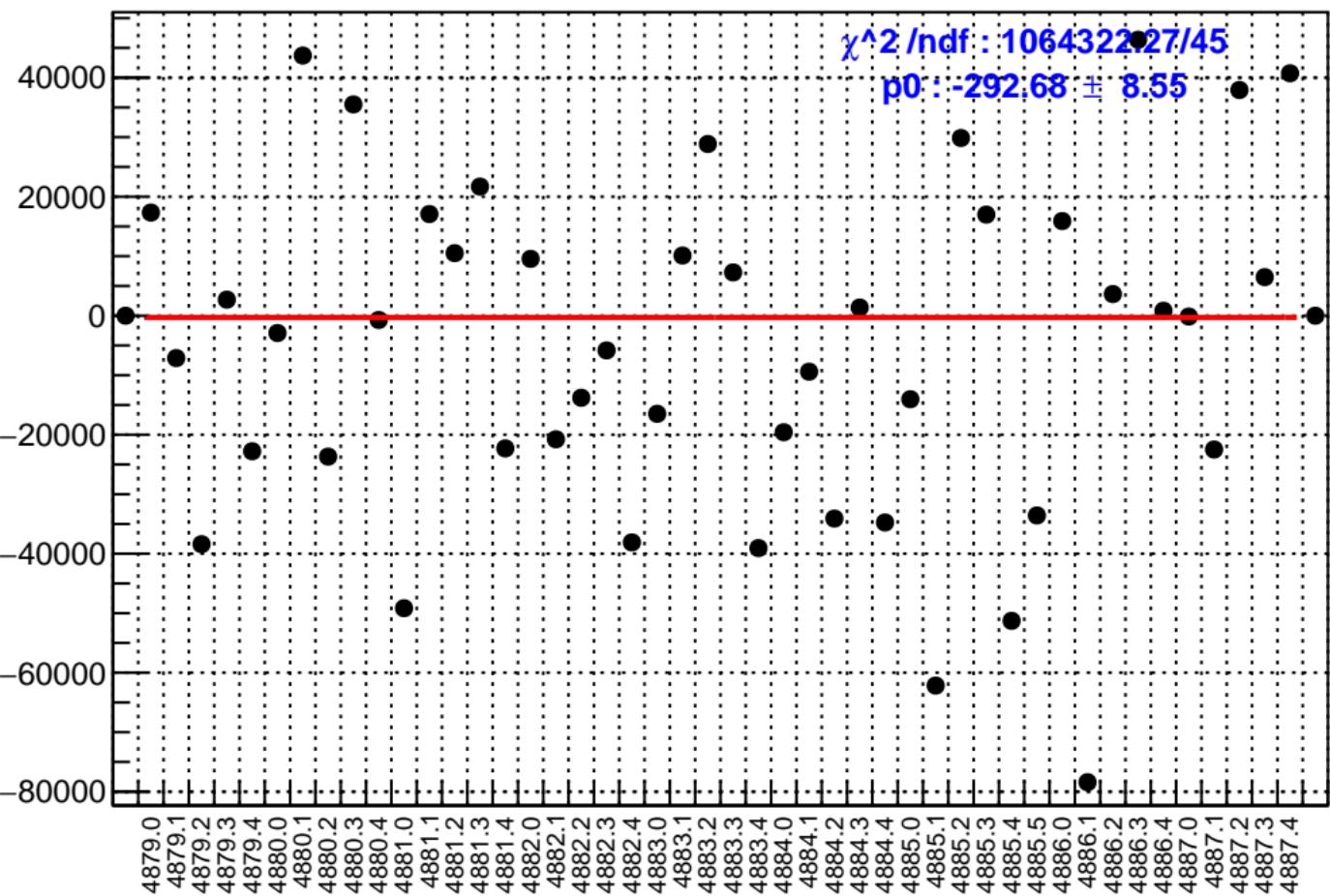


# 1D pull distribution

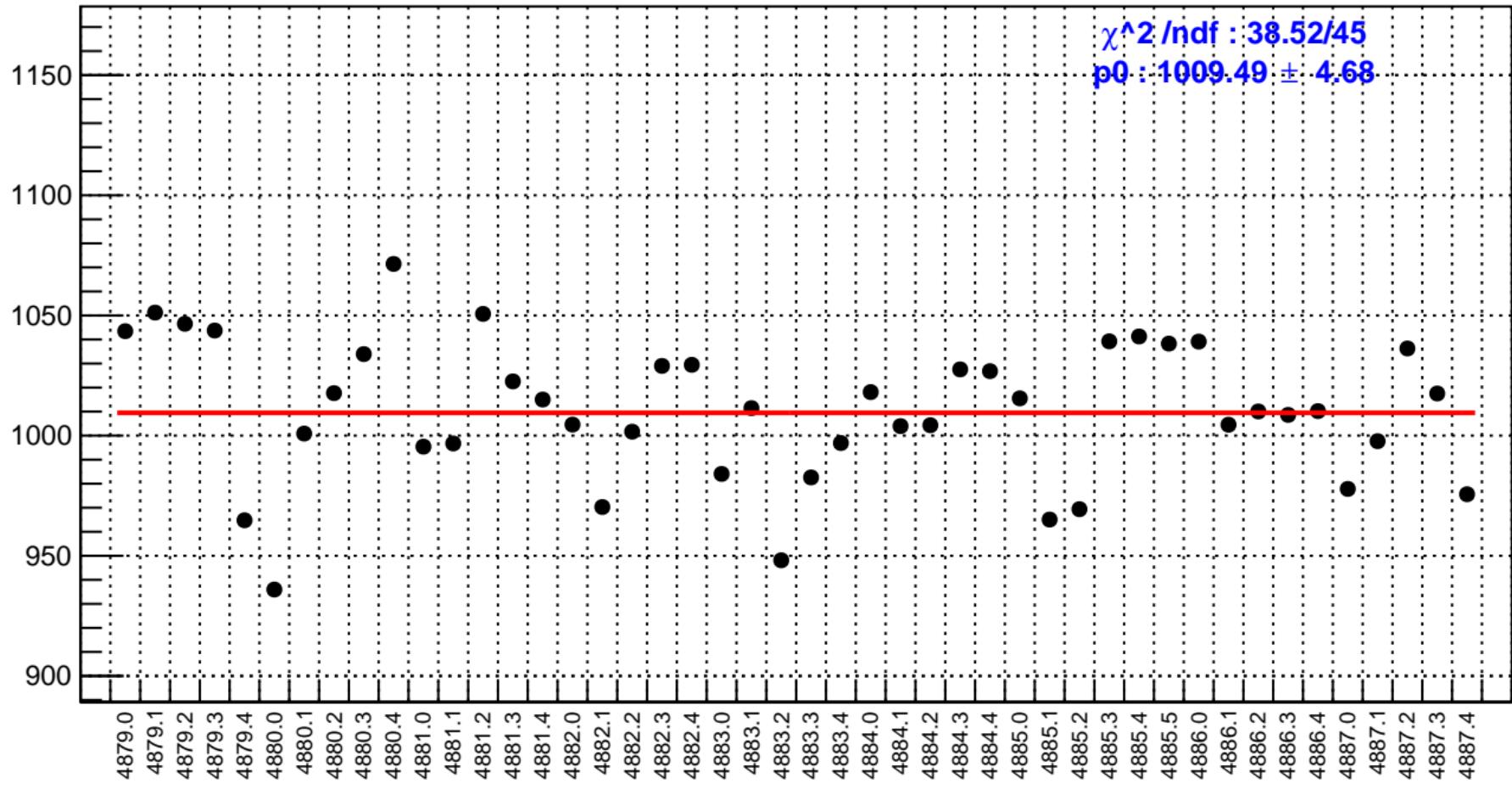


slug89: asym\_sam4.mean/ppb-reg\_asym\_sam4.mean/ppb

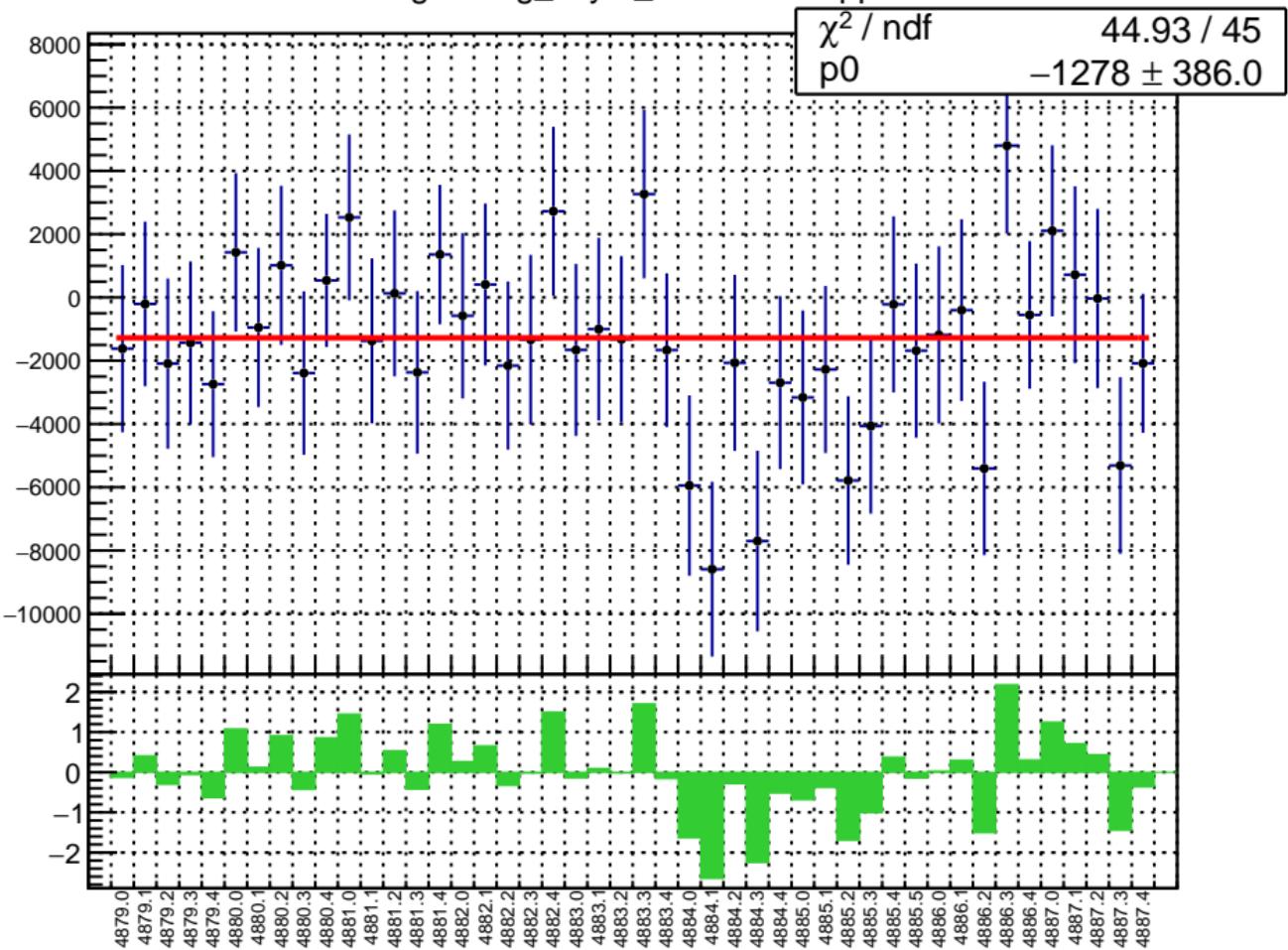
slug89: 1D Corr asym\_sam4.mean/ppb-reg\_asym\_sam4.mean/ppb



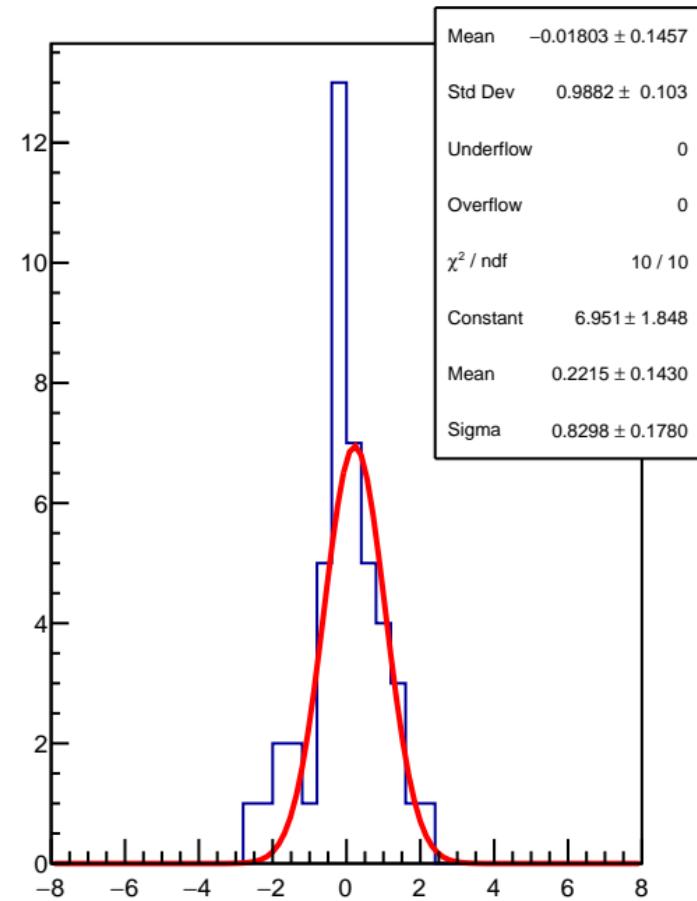
# slug89: reg\_asym\_sam4.rms/ppm



## slug89: reg\_asym\_sam5.mean/ppb

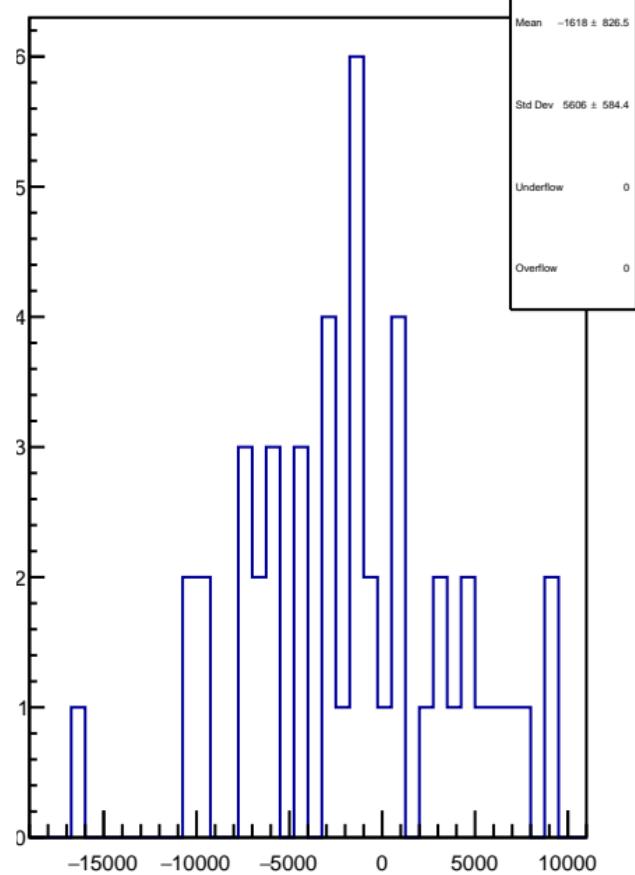
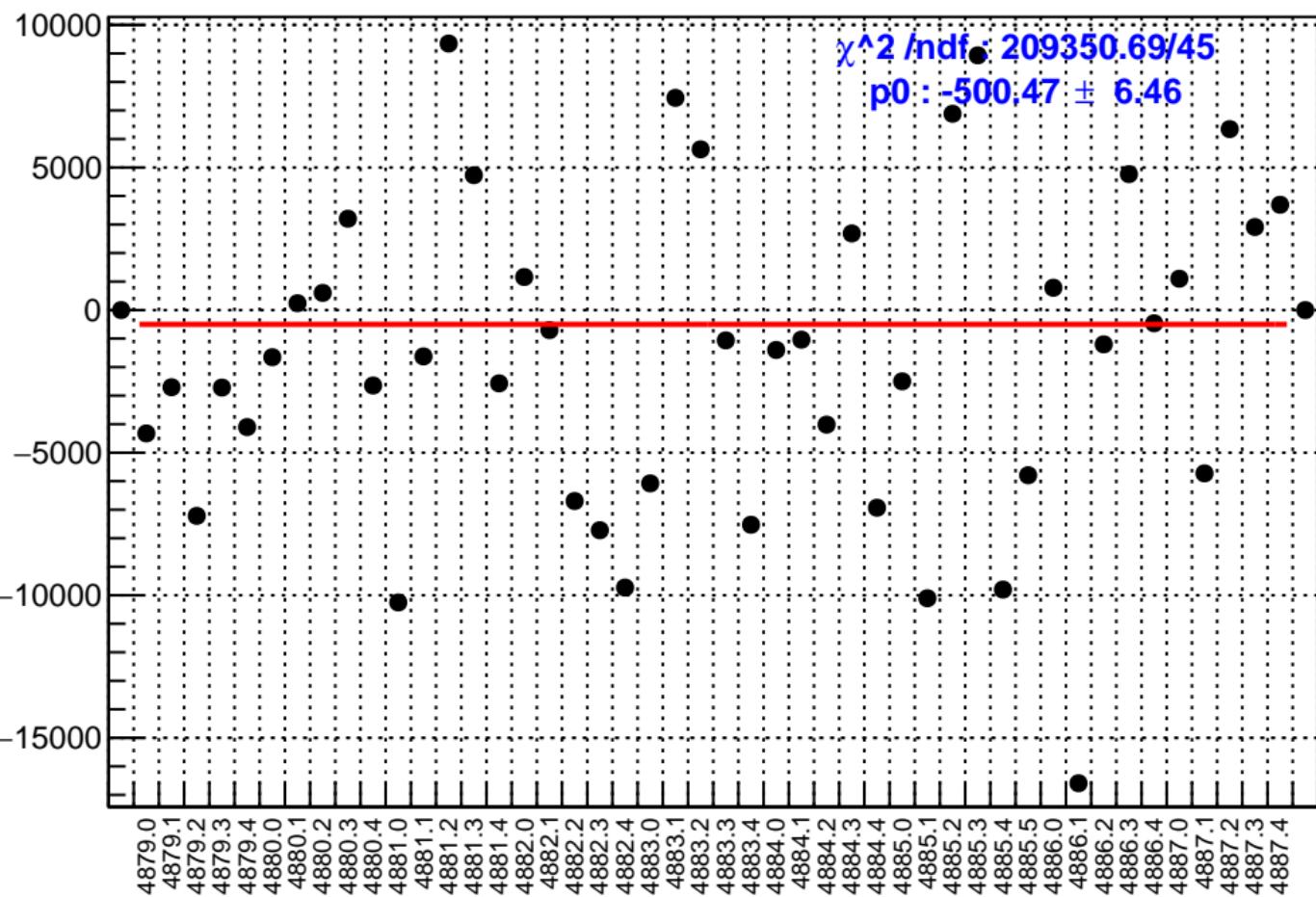


## 1D pull distribution

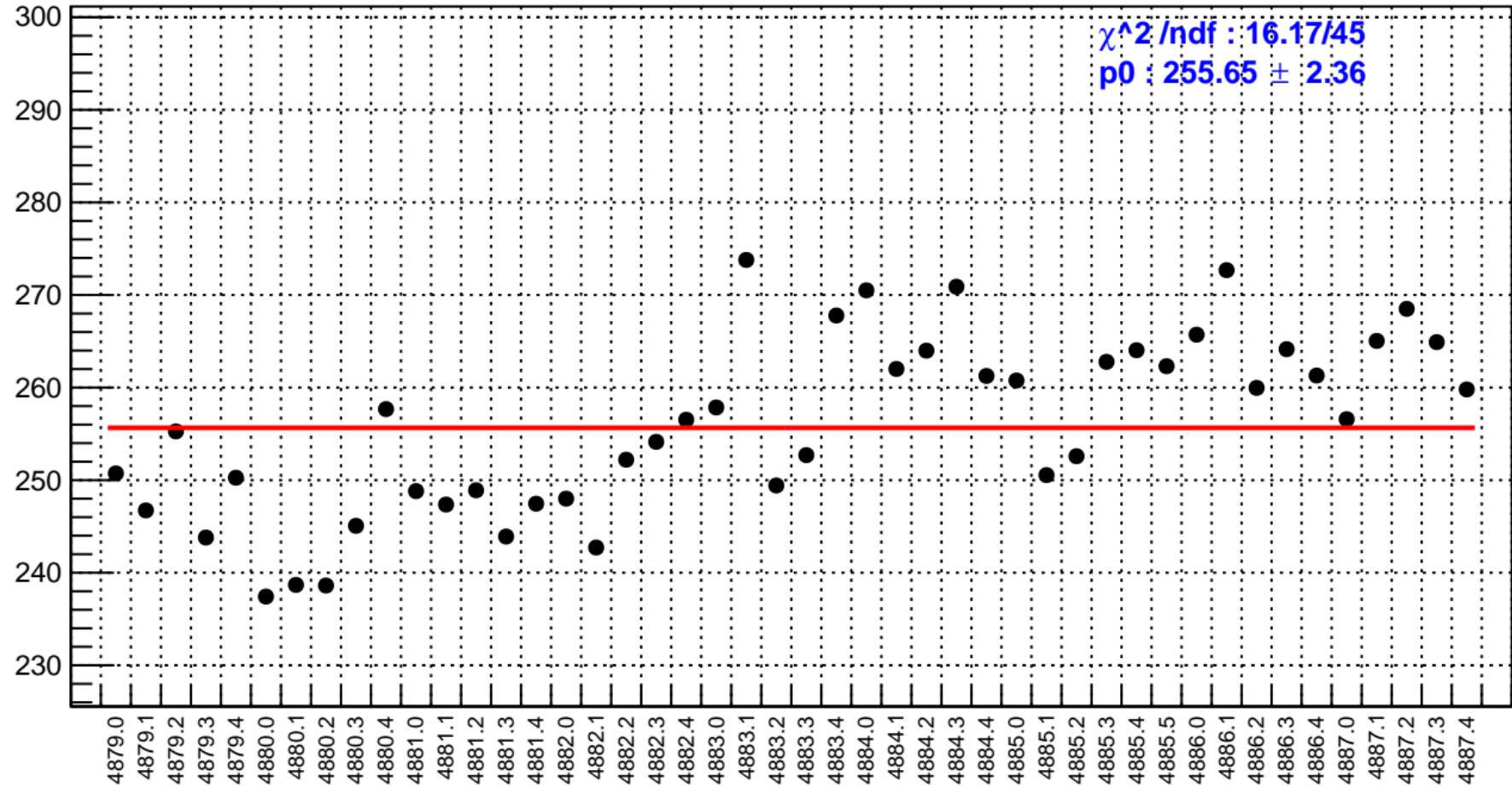


slug89: asym\_sam5.mean/ppb-reg\_asym\_sam5.mean/ppb

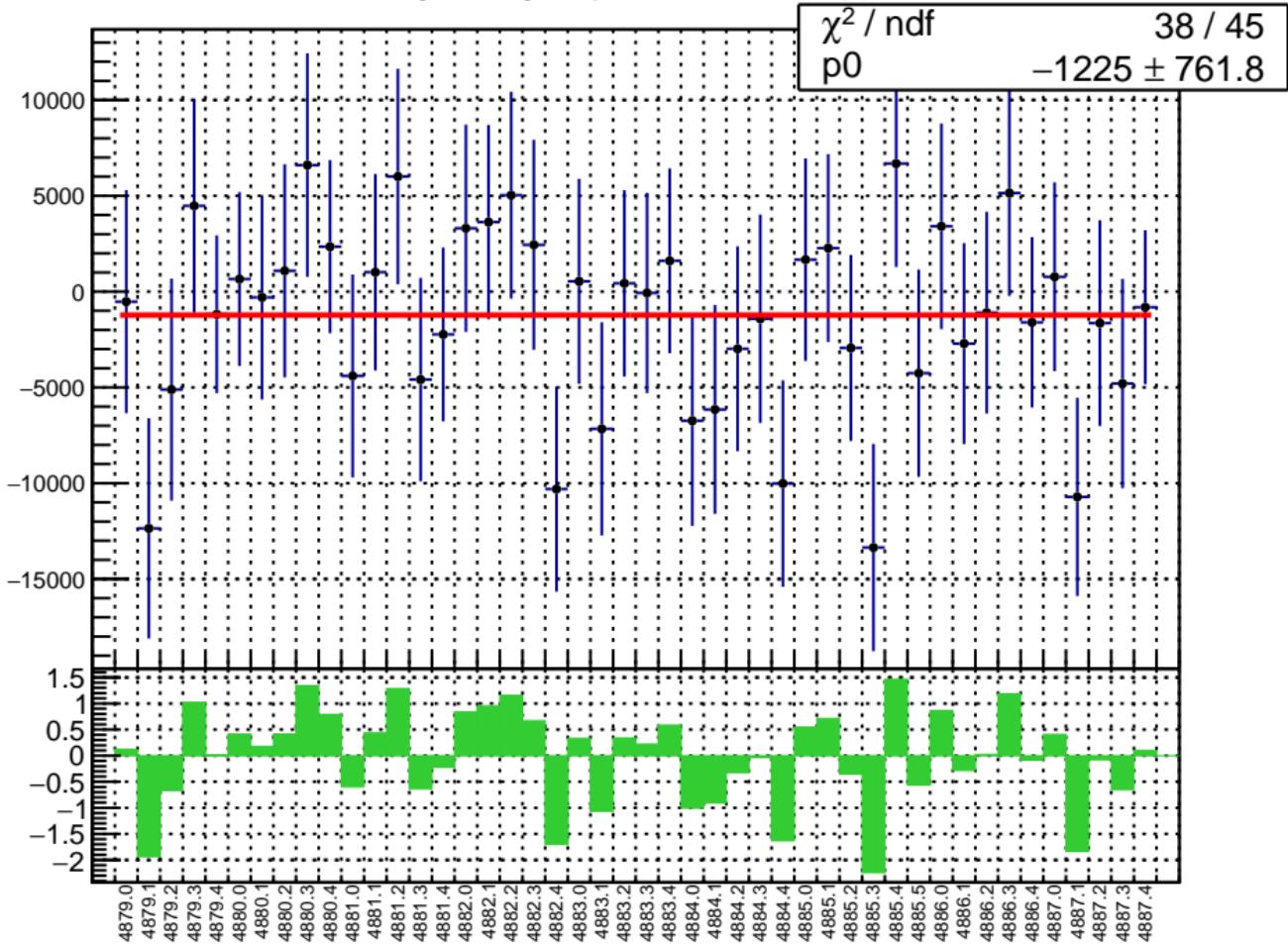
slug89: 1D Corr asym\_sam5.mean/ppb-reg\_asym\_sam5.mean/ppb



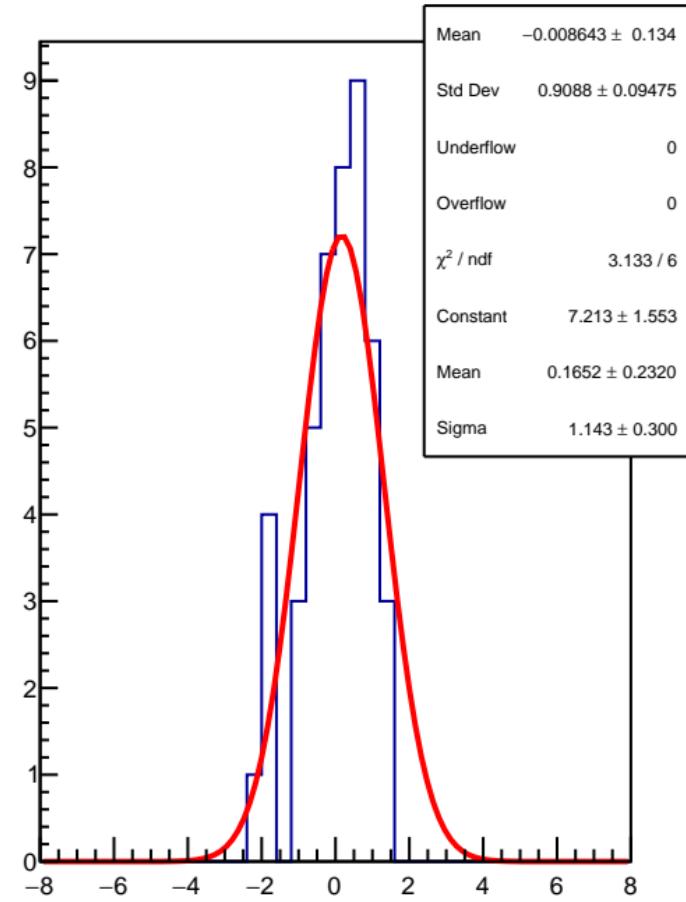
# slug89: reg\_asym\_sam5.rms/ppm



# slug89: reg\_asym\_sam6.mean/ppb

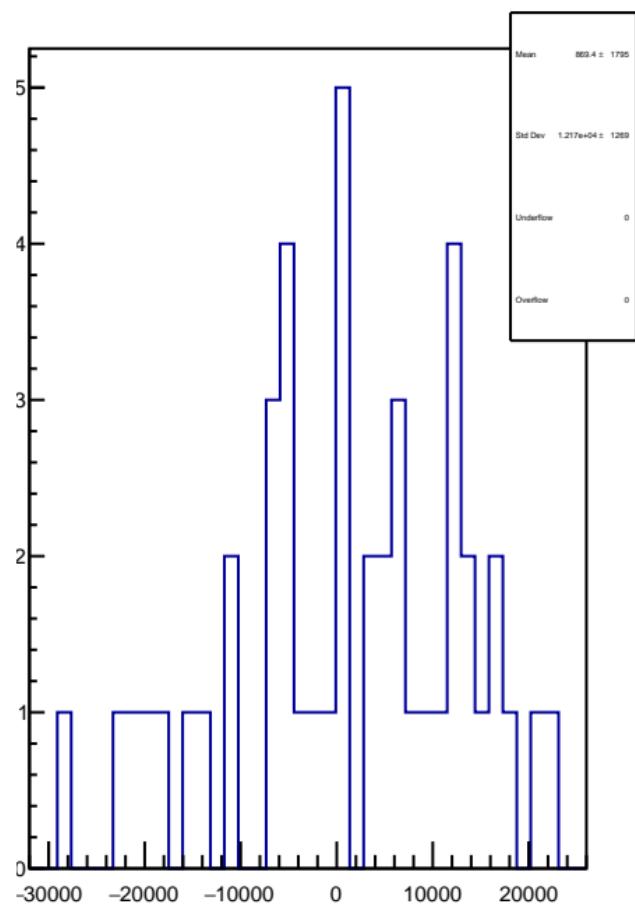
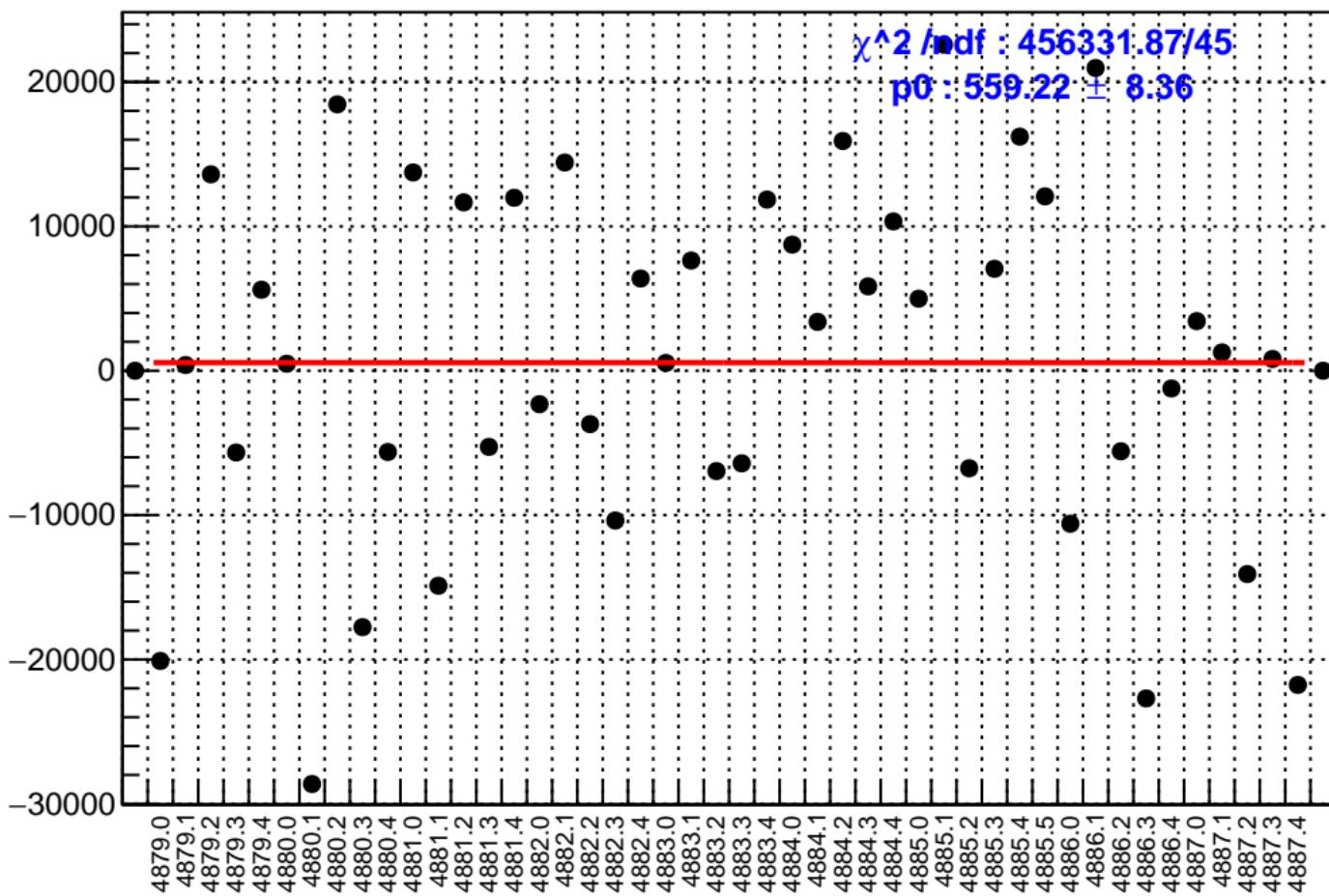


# 1D pull distribution

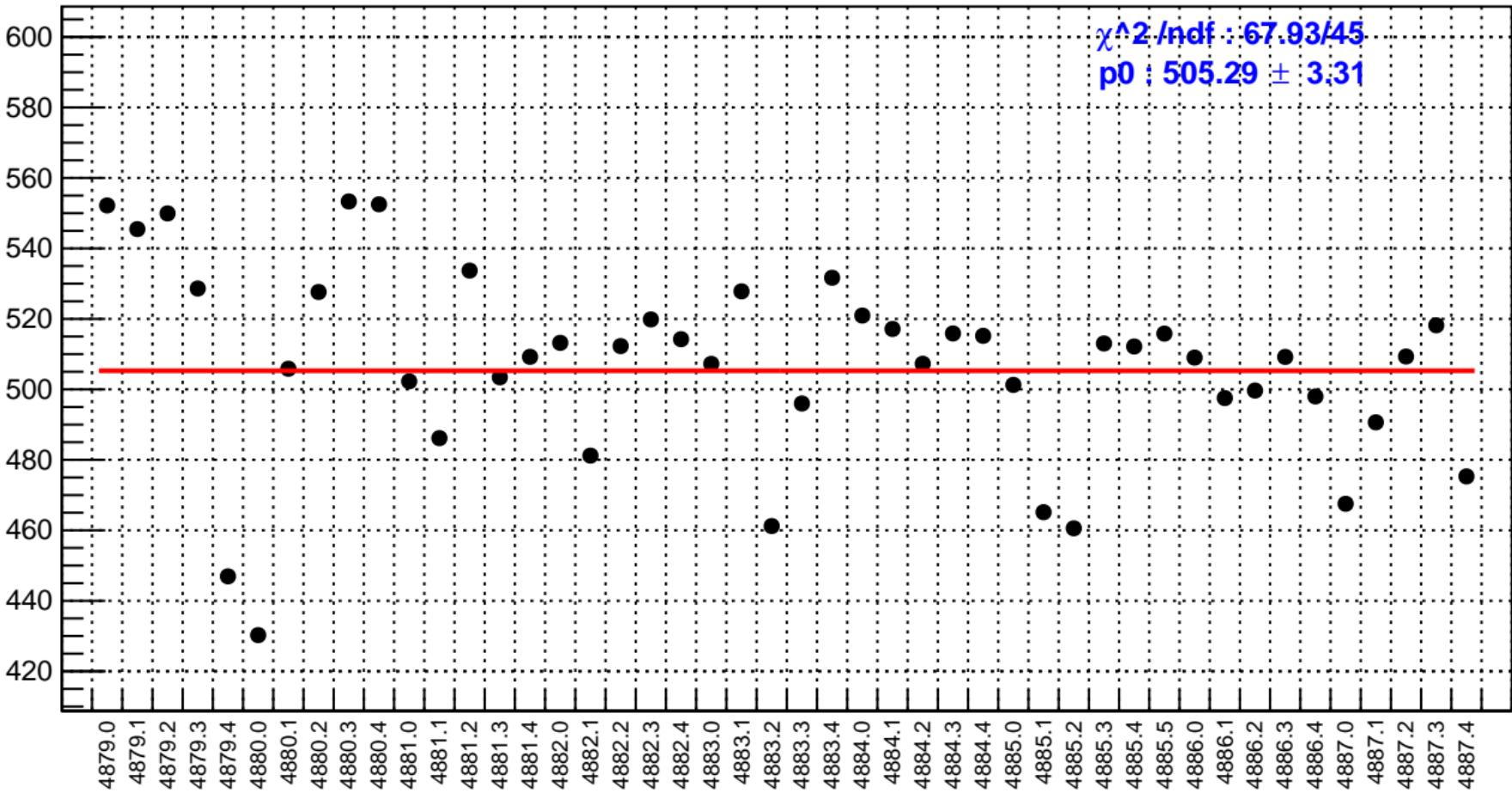


slug89: asym\_sam6.mean/ppb-reg\_asym\_sam6.mean/ppb

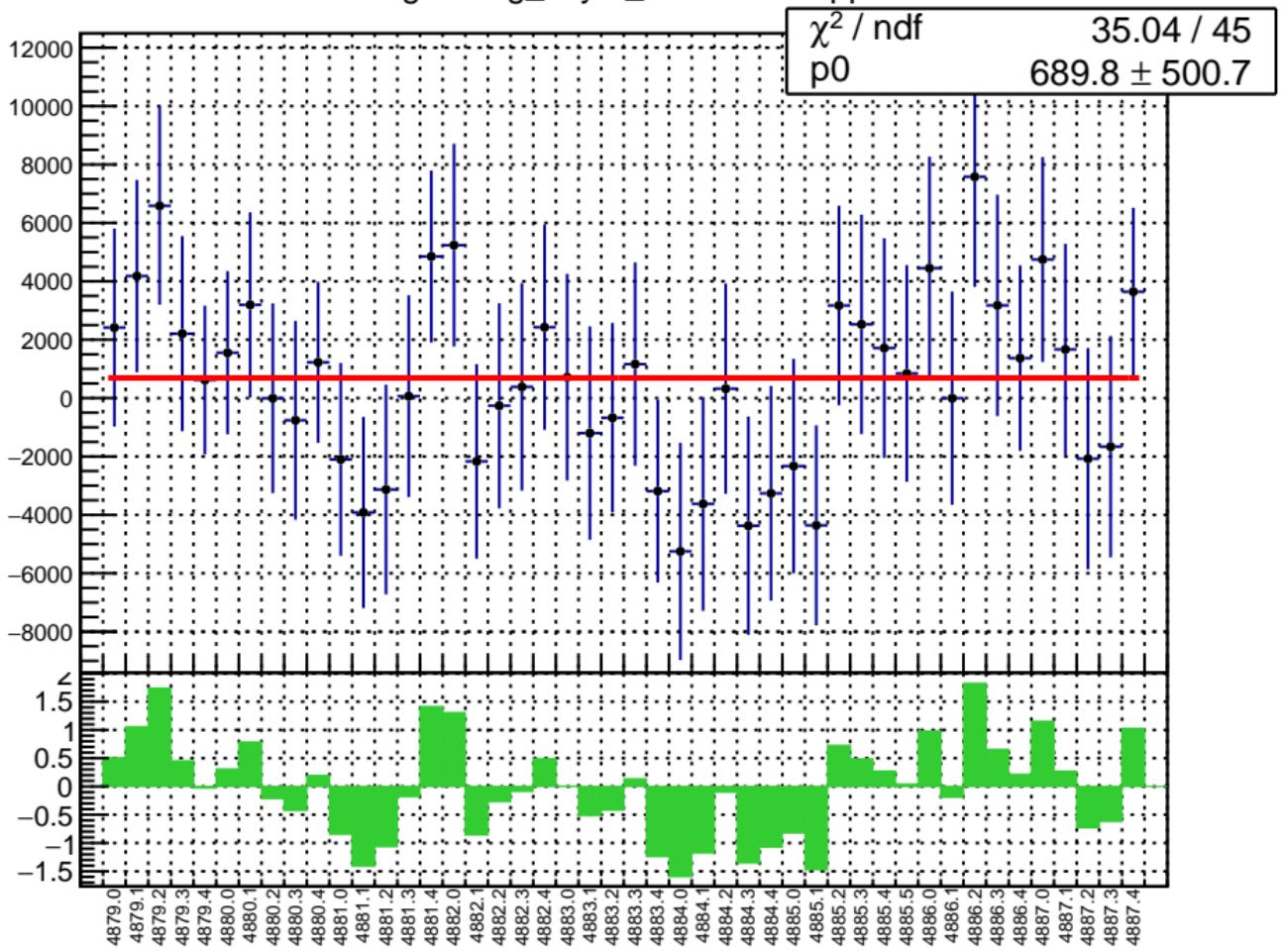
slug89: 1D Corr asym\_sam6.mean/ppb-reg\_asym\_sam6.mean/ppb



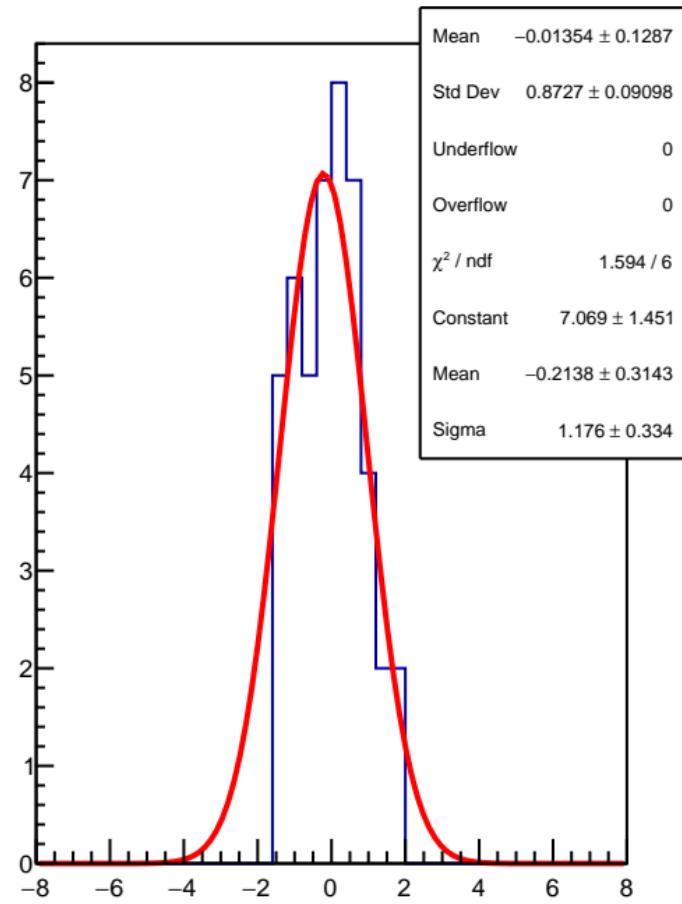
# slug89: reg\_asym\_sam6.rms/ppm



# slug89: reg\_asym\_sam7.mean/ppb

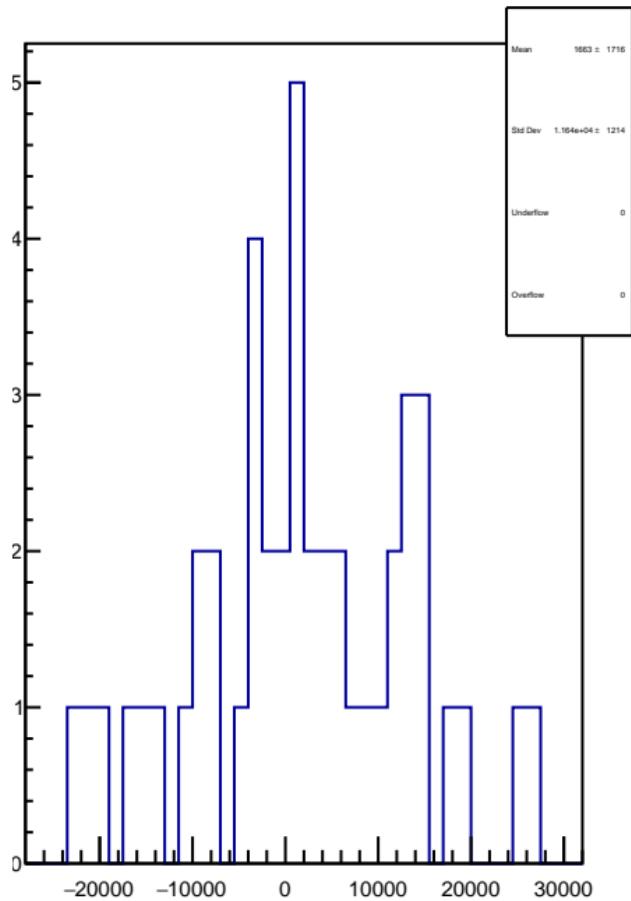
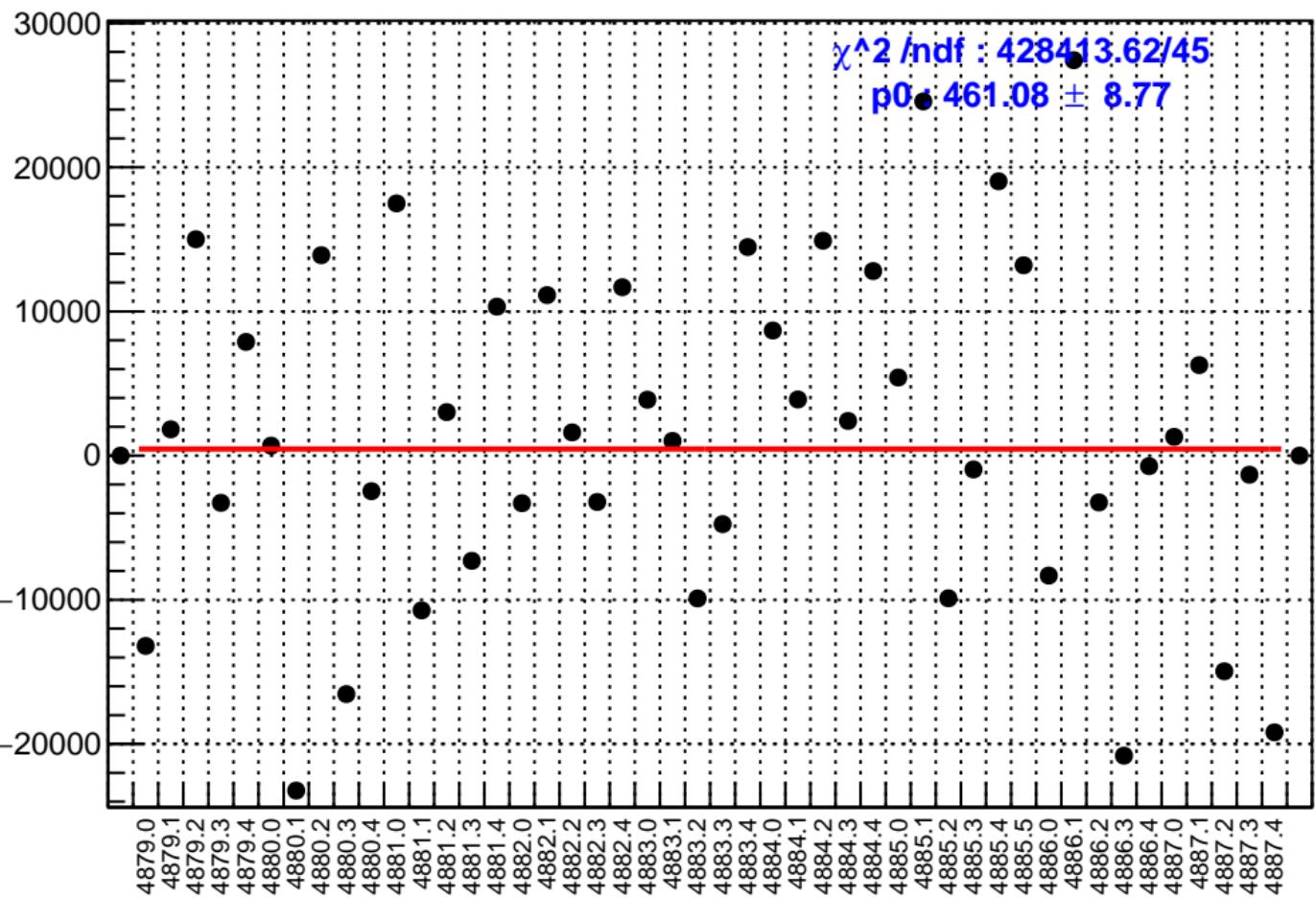


# 1D pull distribution

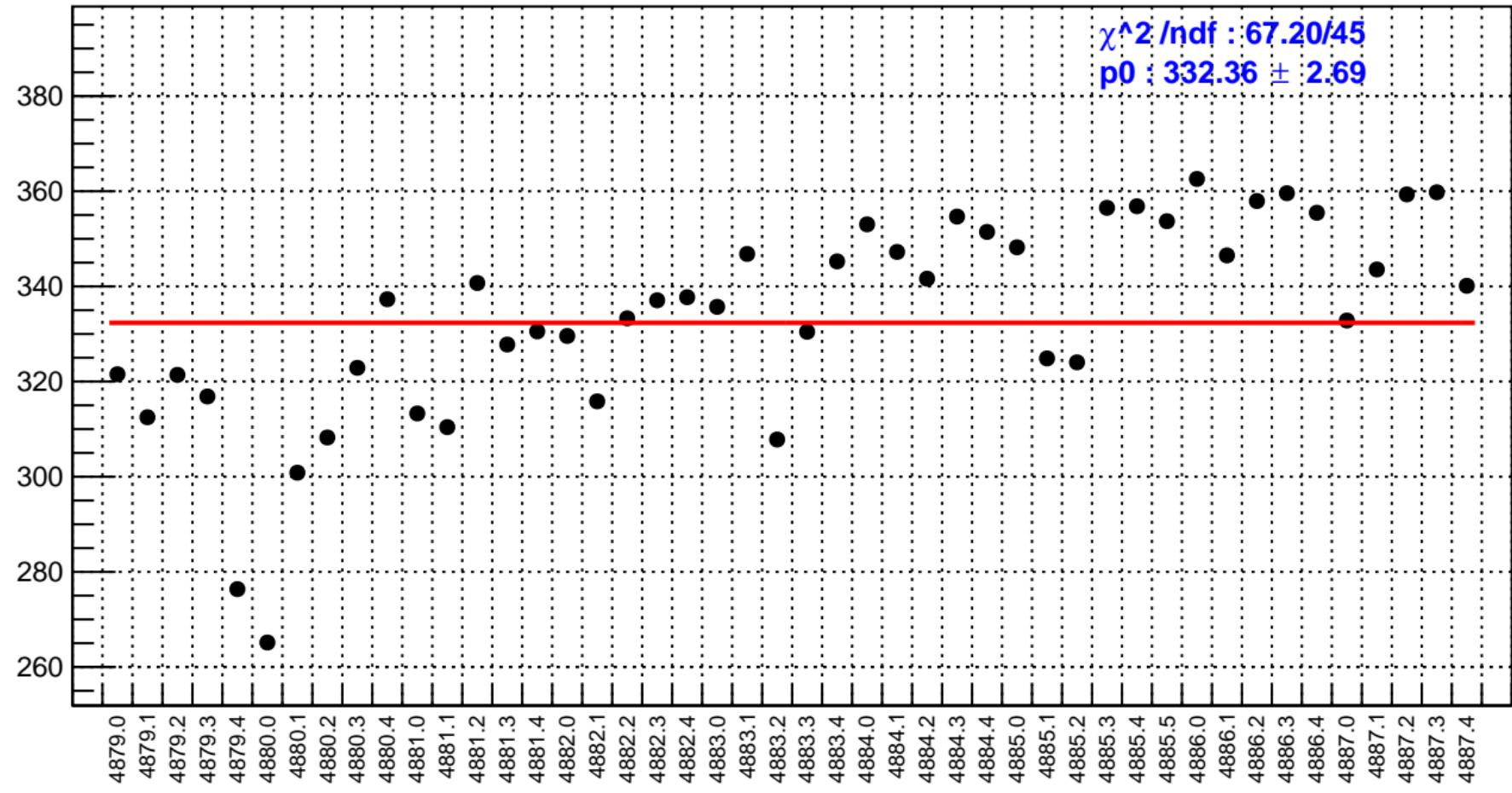


slug89: asym\_sam7.mean/ppb-reg\_asym\_sam7.mean/ppb

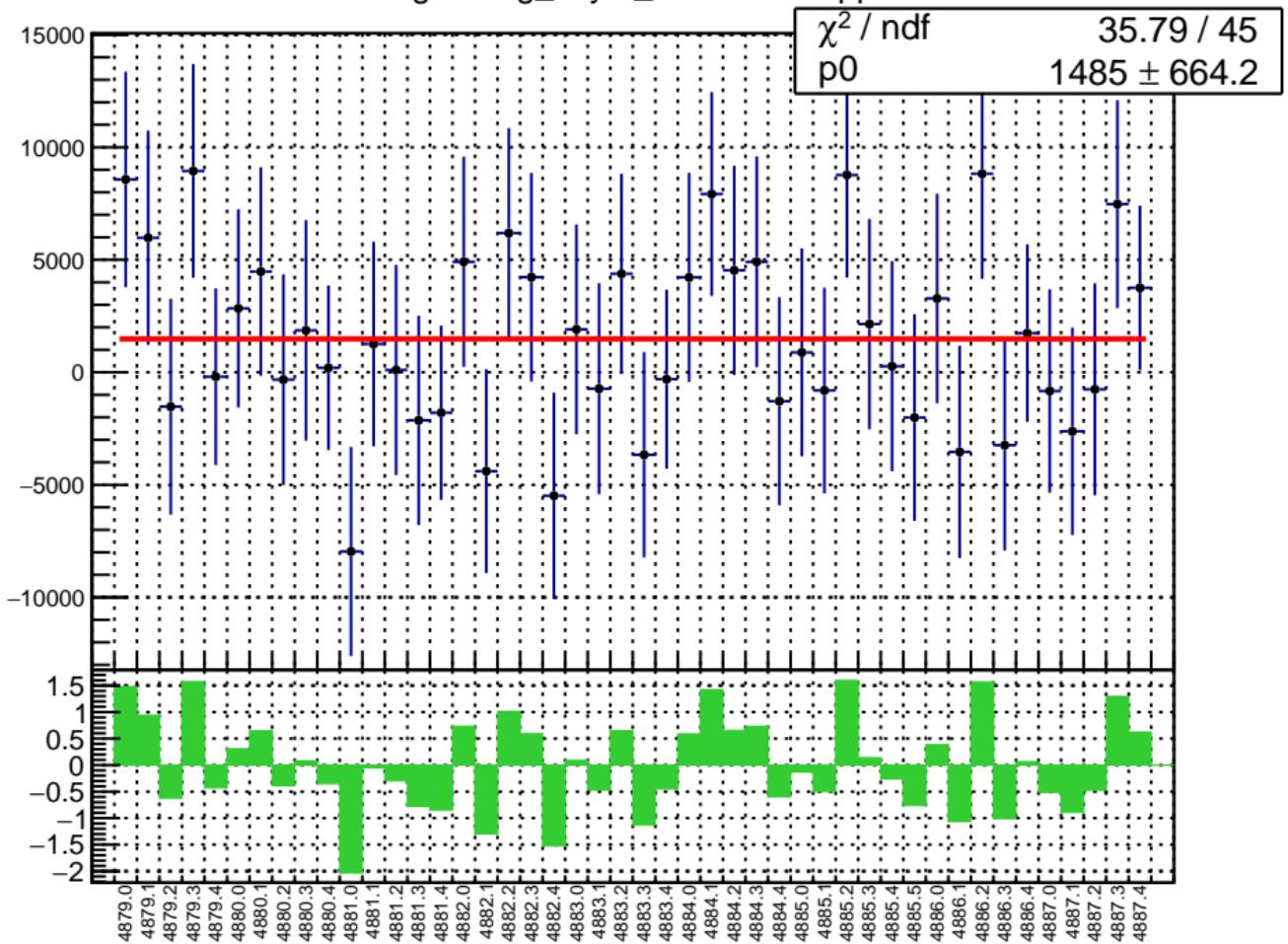
slug89: 1D Corr asym\_sam7.mean/ppb-reg\_asym\_sam7.mean/ppb



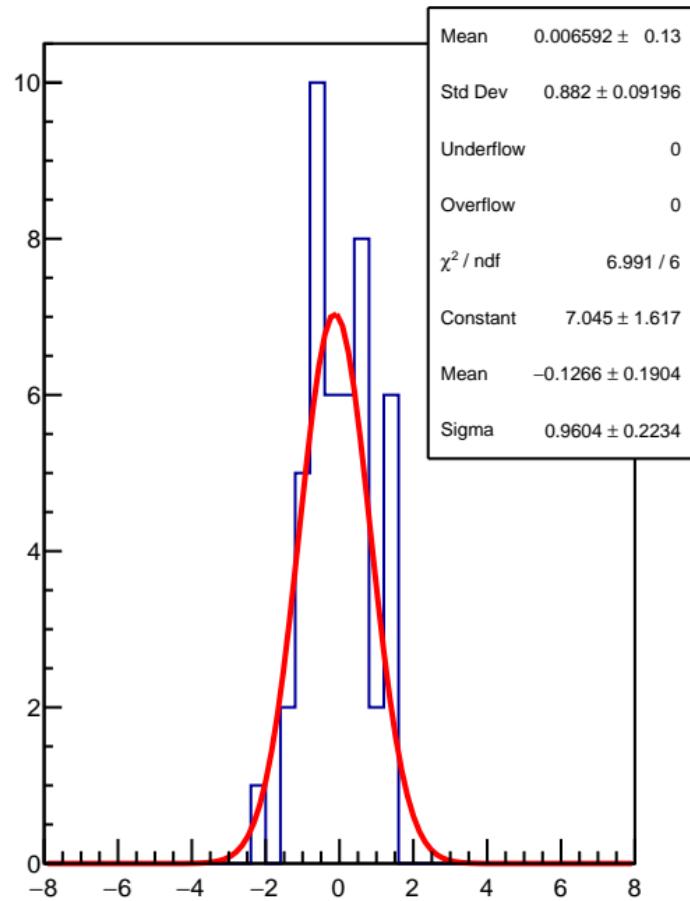
# slug89: reg\_asym\_sam7.rms/ppm



# slug89: reg\_asym\_sam8.mean/ppb

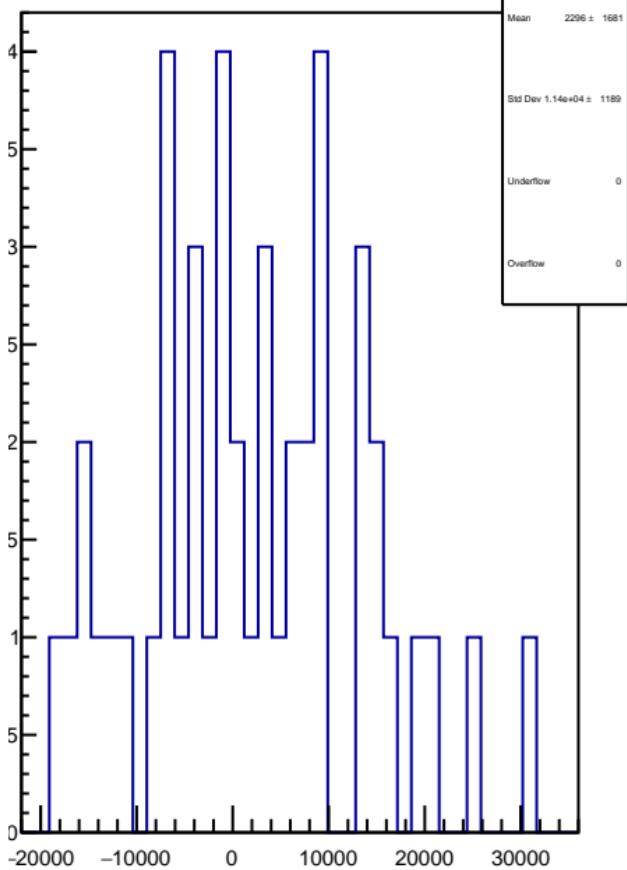
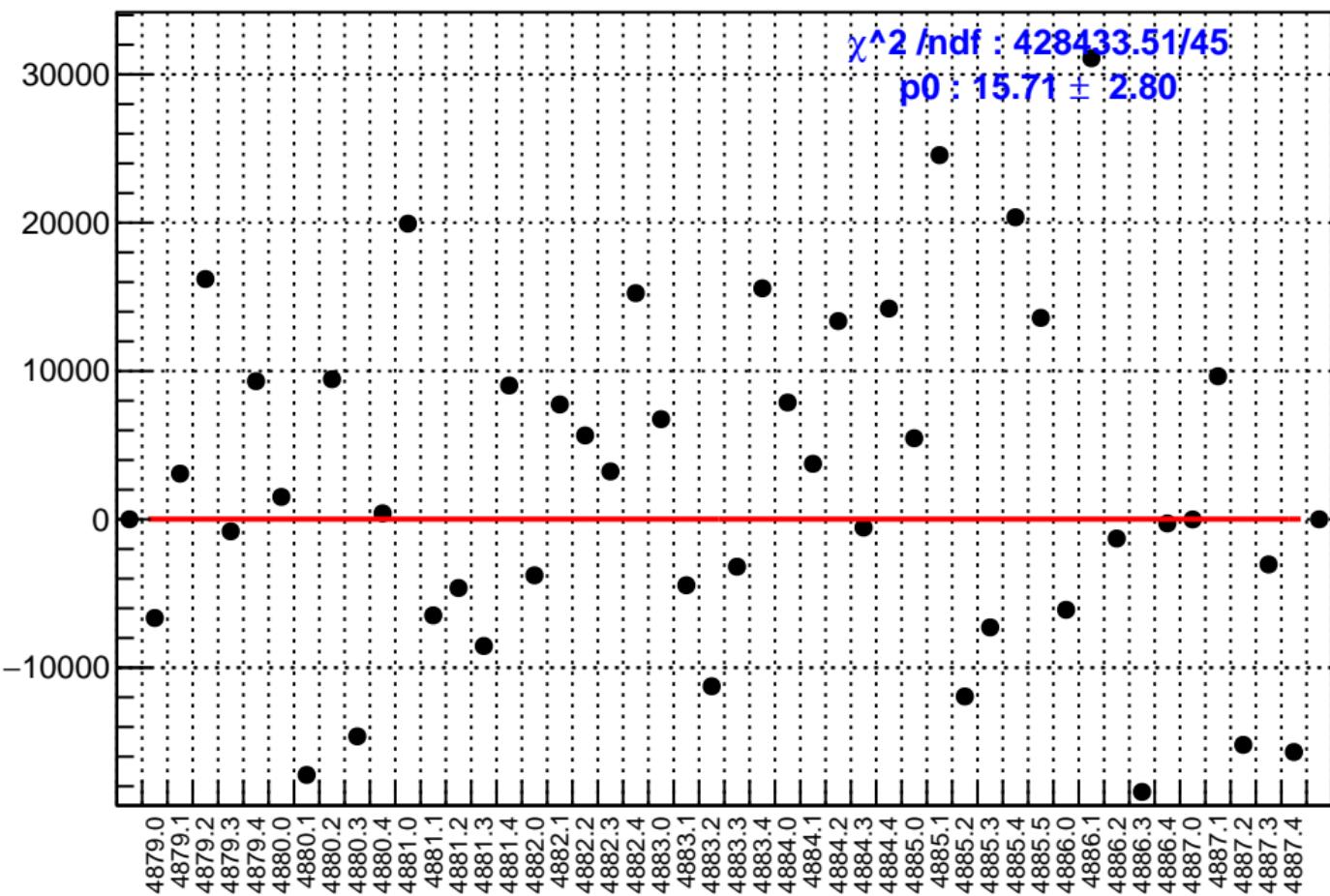


# 1D pull distribution



slug89: asym\_sam8.mean/ppb-reg\_asym\_sam8.mean/ppb

slug89: 1D Corr asym\_sam8.mean/ppb-reg\_asym\_sam8.mean/ppb



# slug89: reg\_asym\_sam8.rms/ppm

