



University  
Mohammed I



Physique de la Matière et  
des Rayonnements



Faculté des Sciences  
Oujda

# ***ATLAS Forward Calorimeter's Analysis : Electrons-Position Resolution***

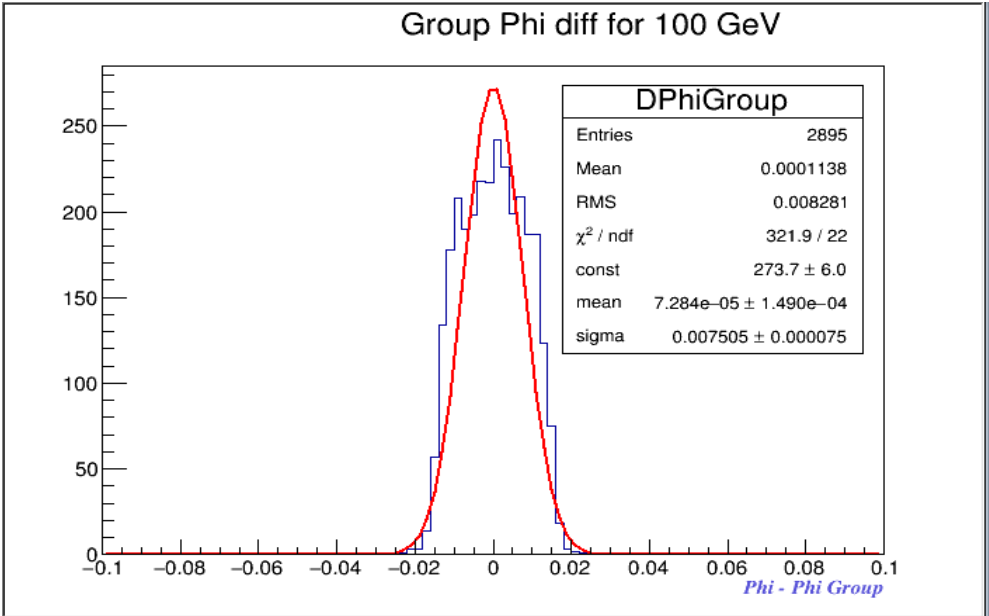
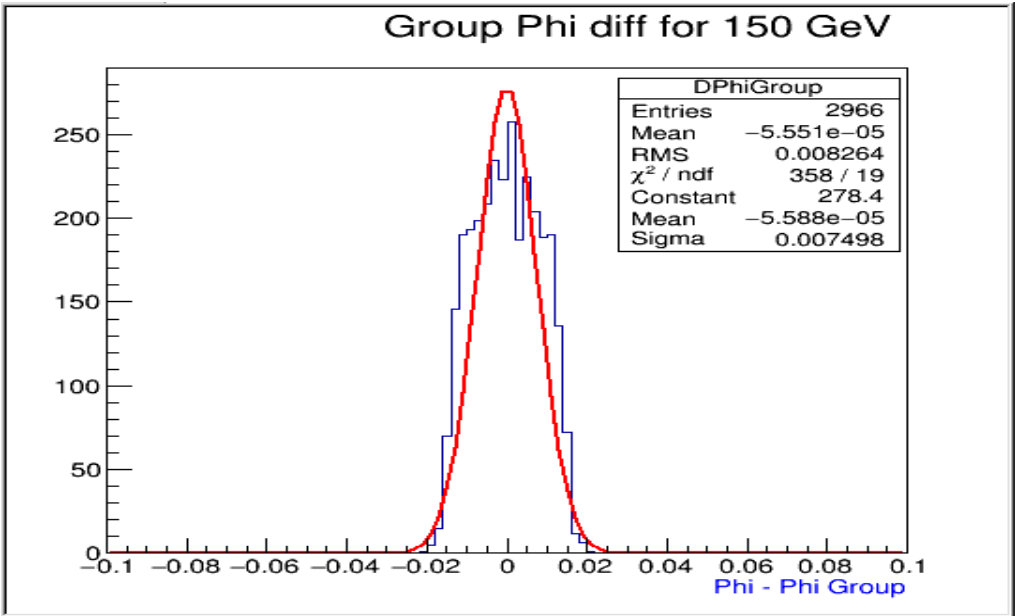
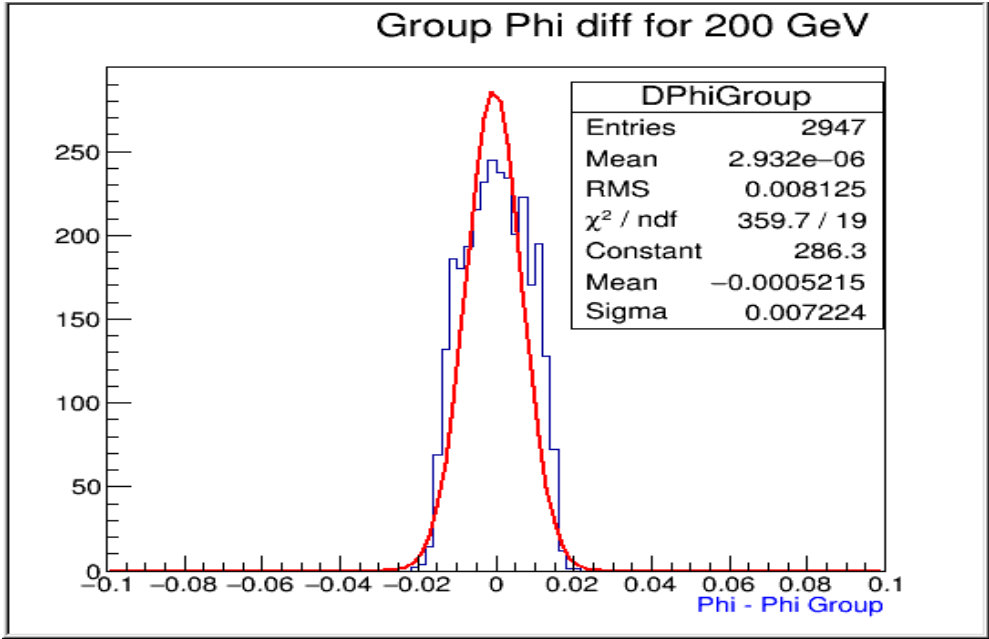
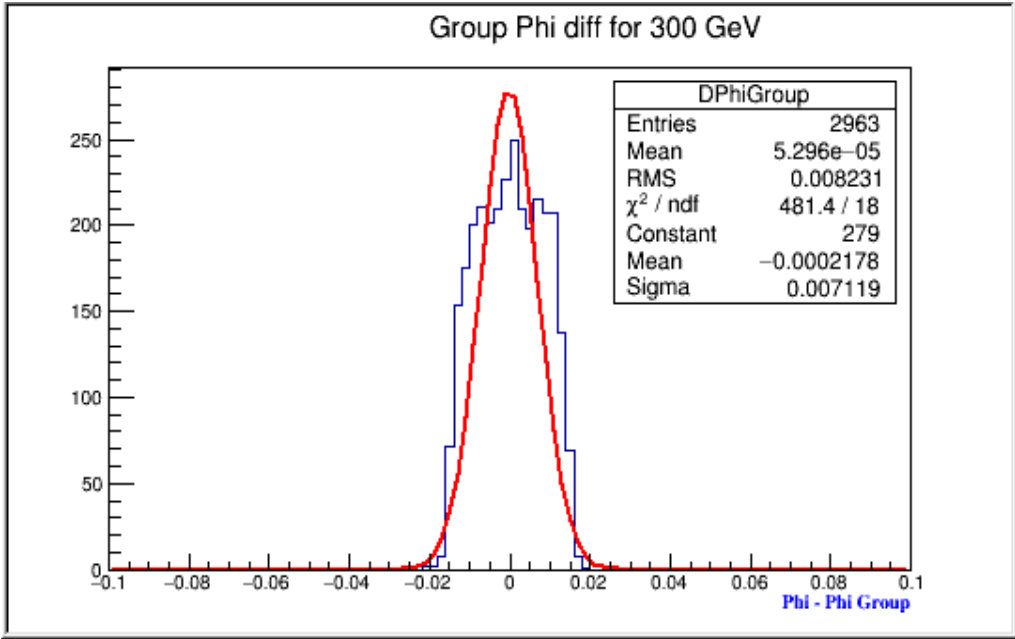
*KTH/ FSO meeting  
13/ 01/ 2016*

Malika TOUIL – Yahya TAYALATI



# $\varphi$ group

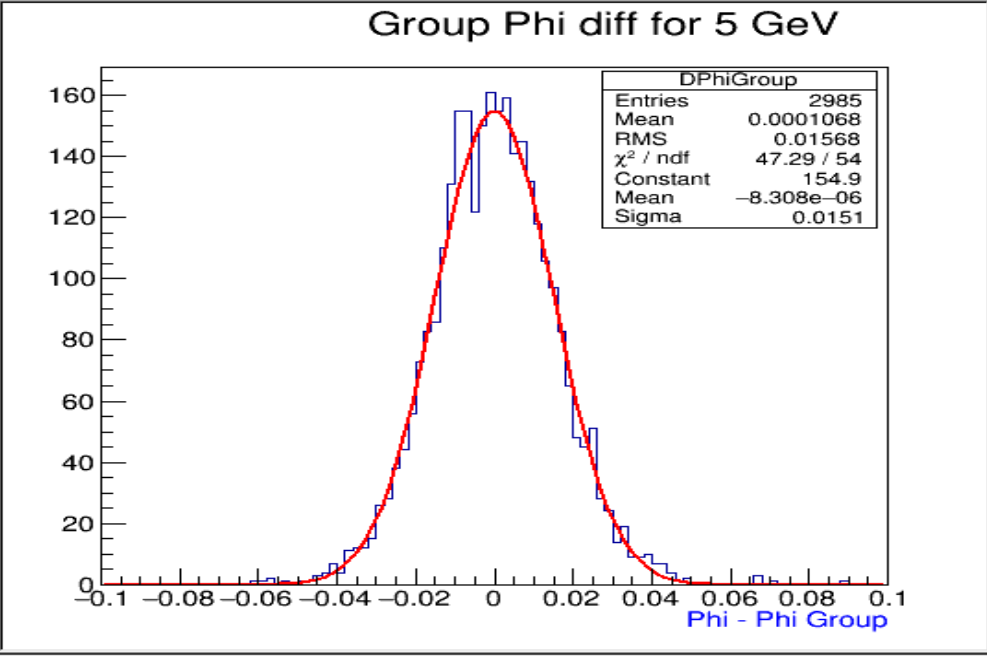
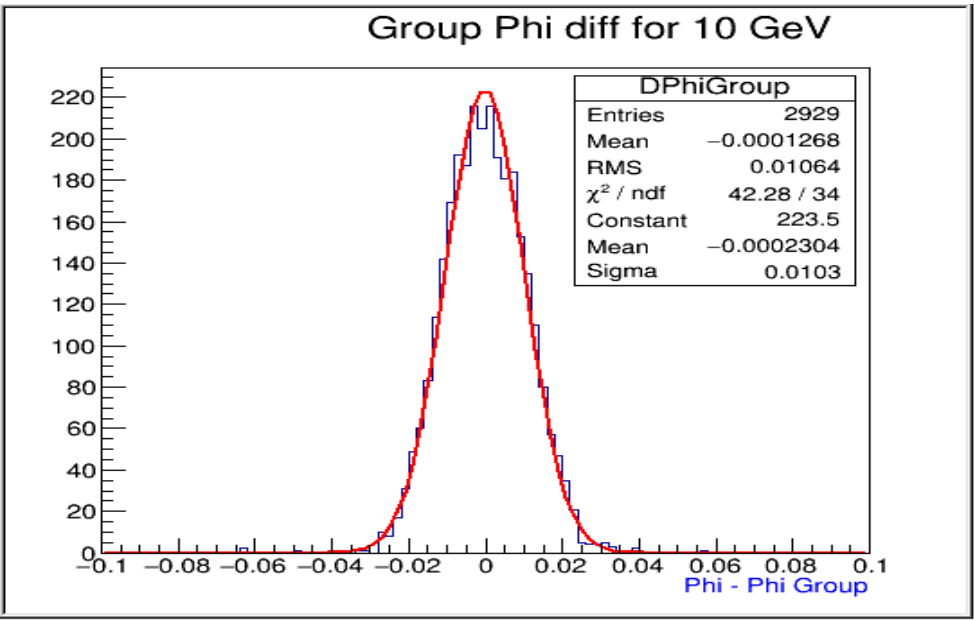
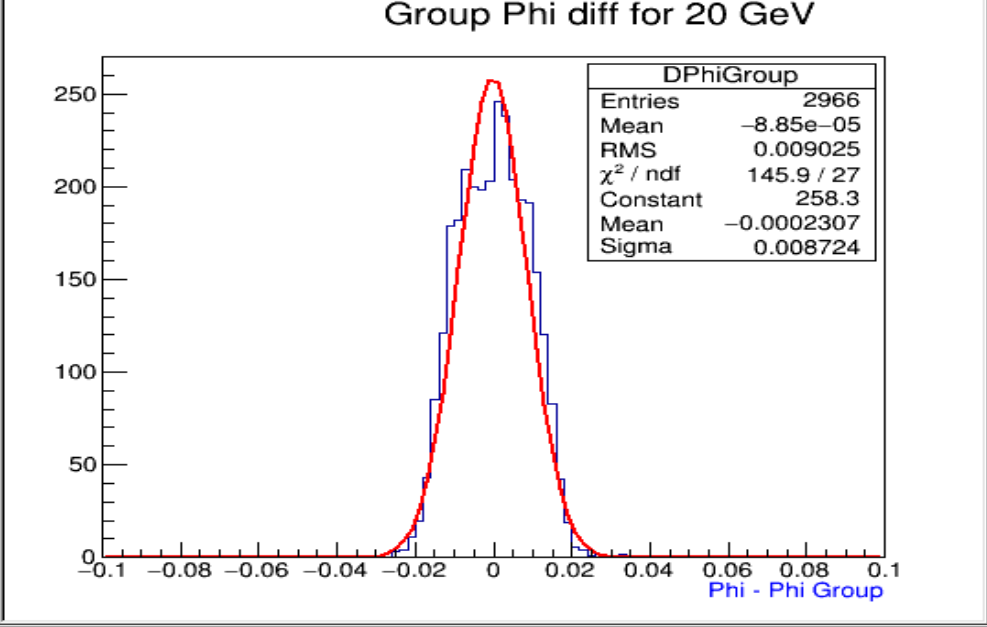
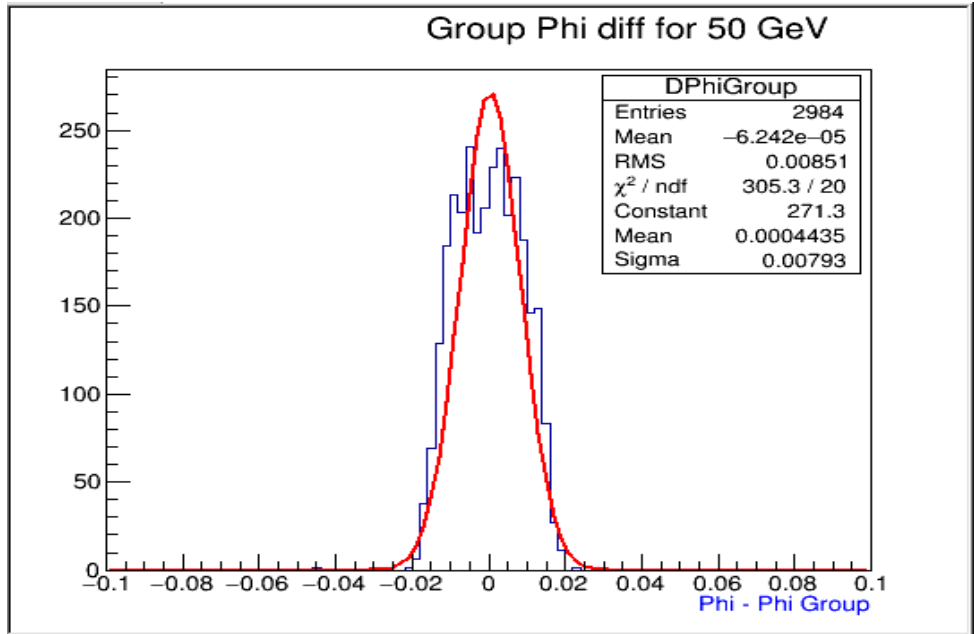
$$3.1 < \eta_{\text{truth}} < 3.2$$





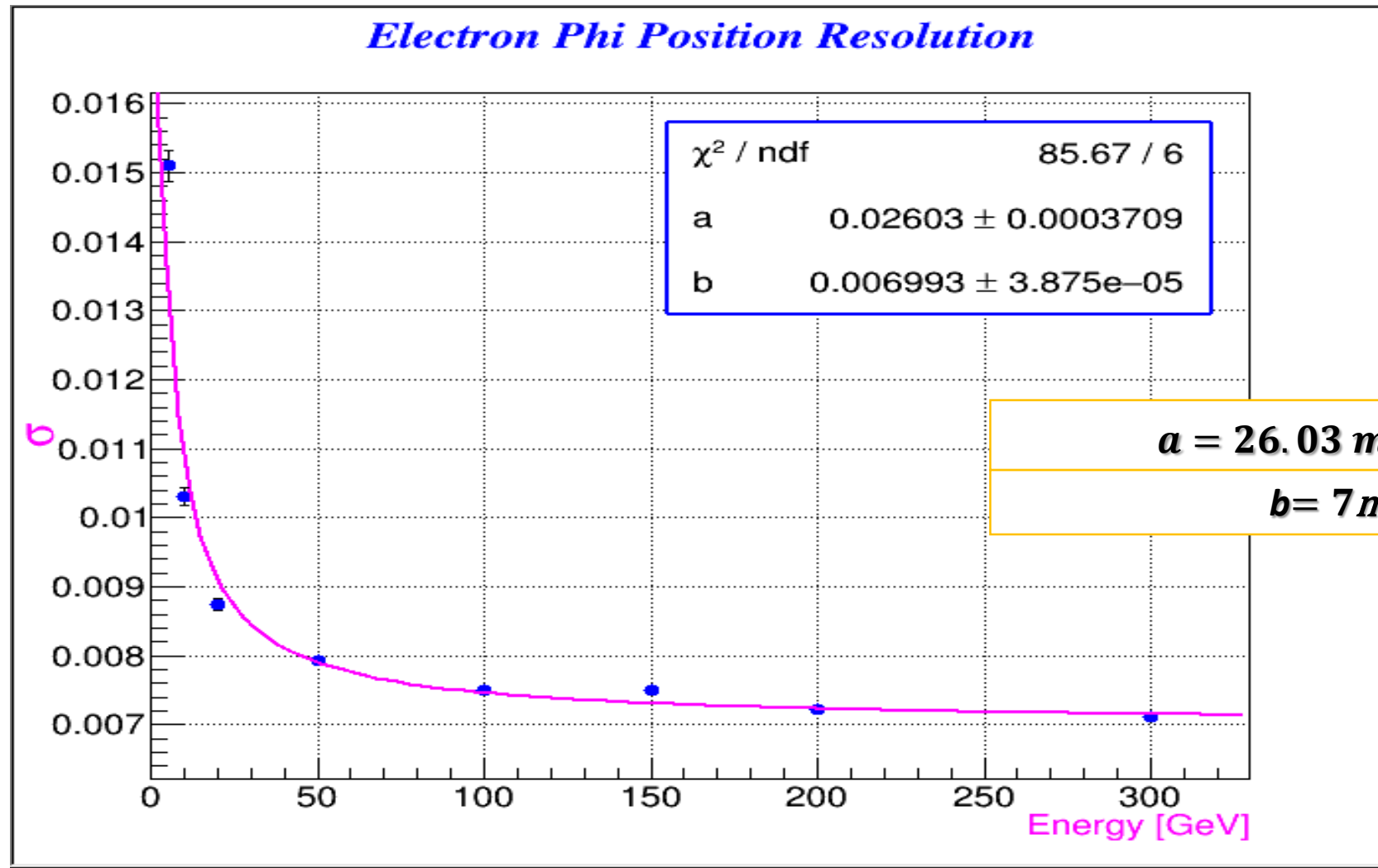
# $\varphi$ group

$$3.1 < \eta_{\text{truth}} < 3.2$$





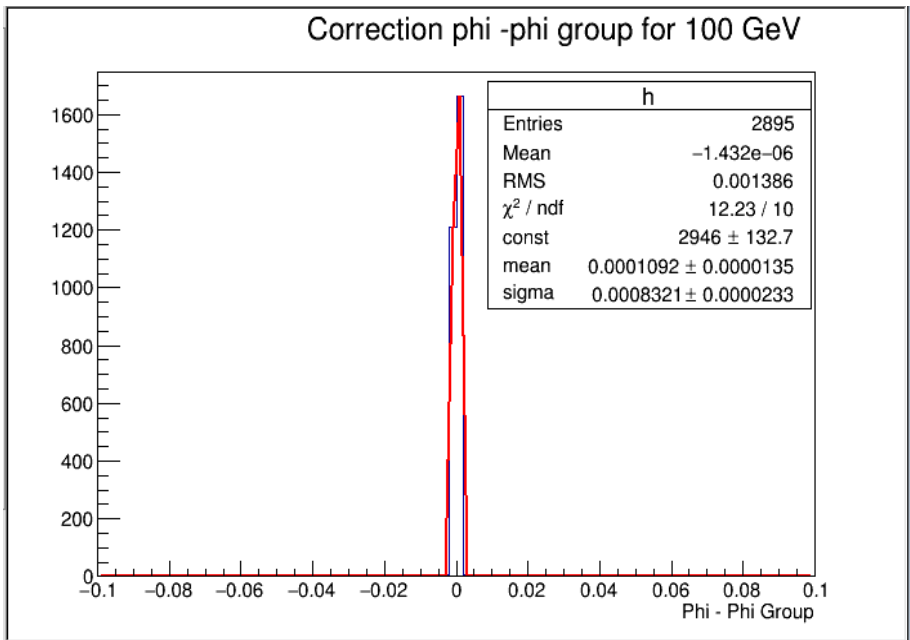
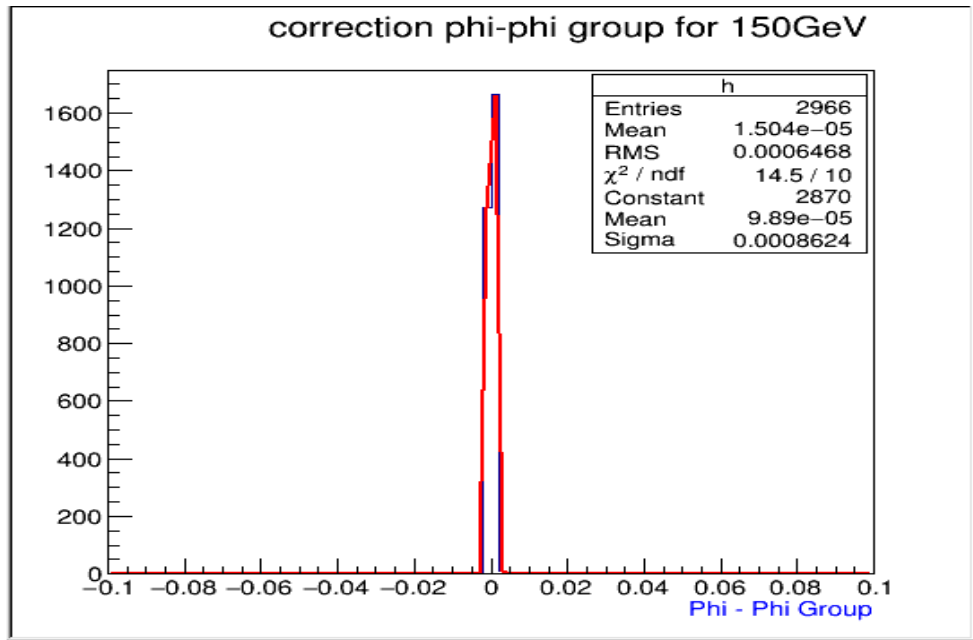
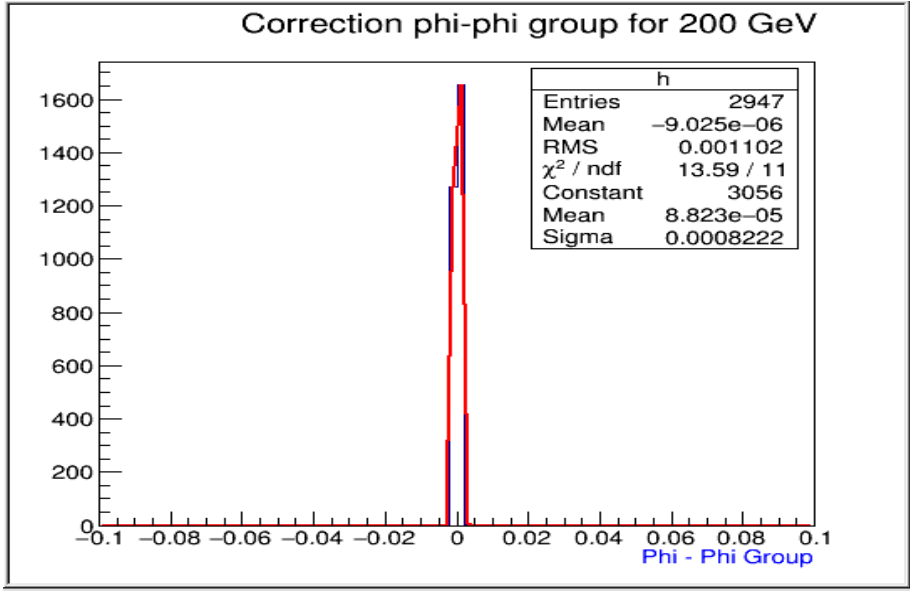
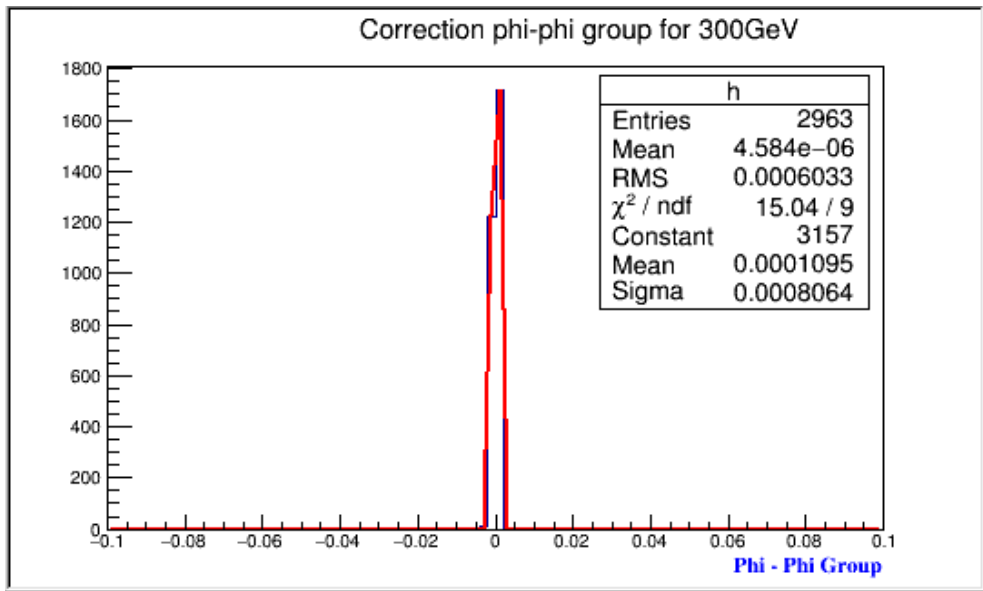
# $\varphi$ group Position Resolution





# $\varphi$ group corrected

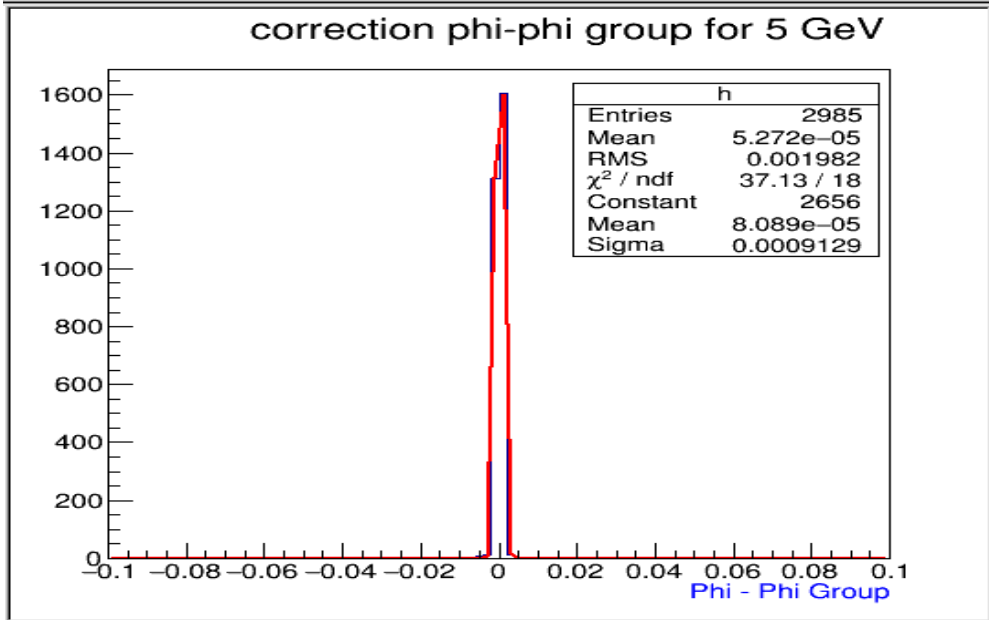
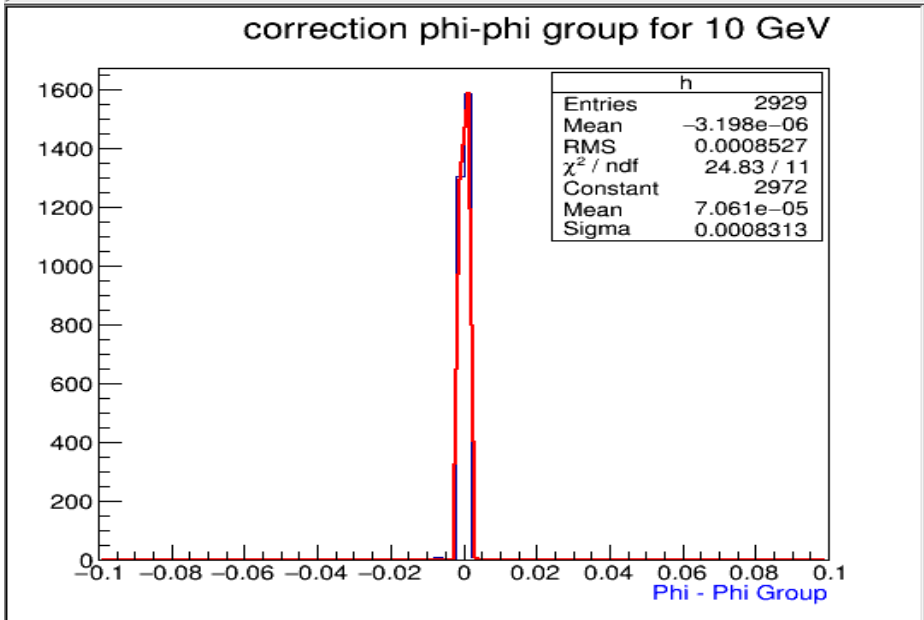
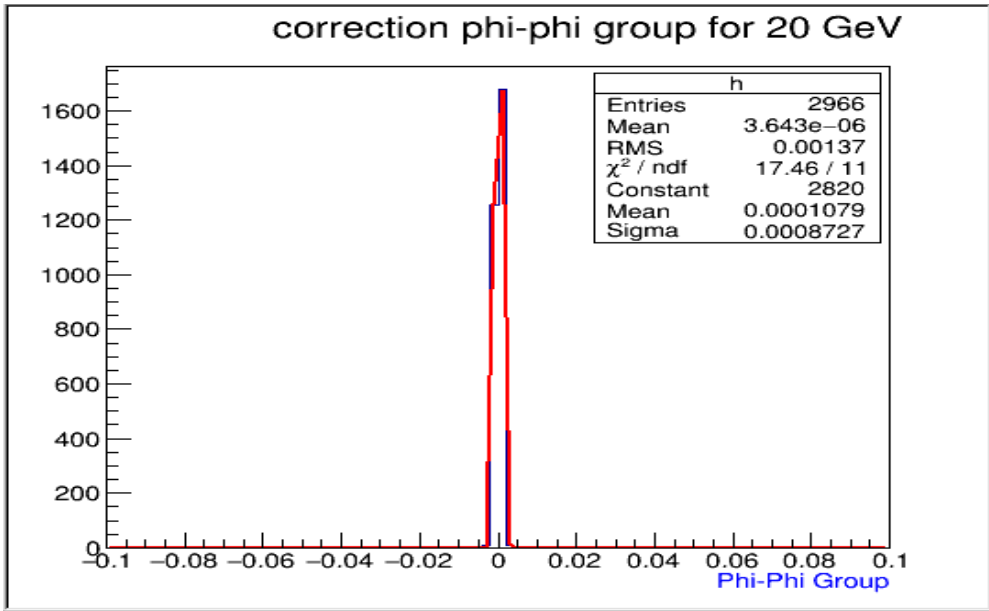
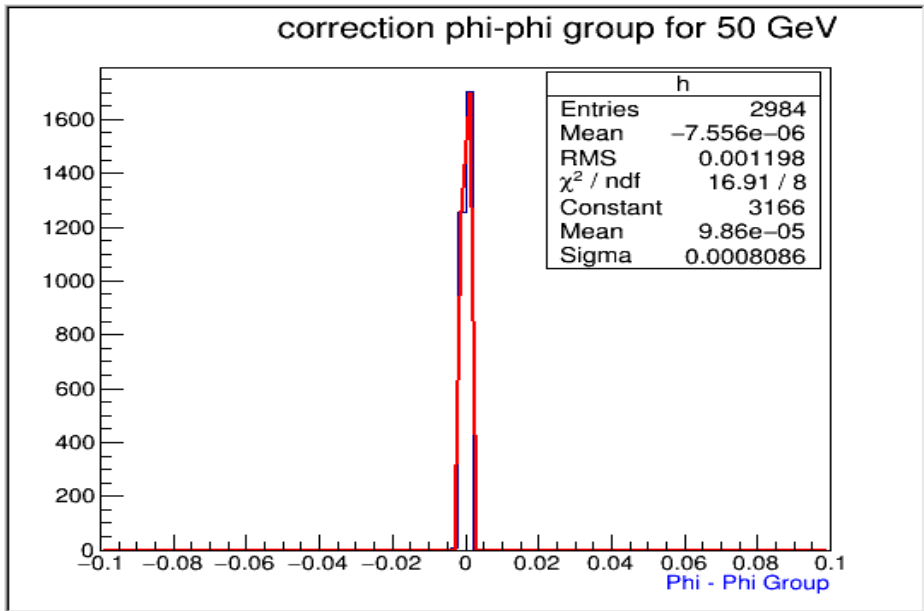
$$3.1 < \eta_{\text{truth}} < 3.2$$





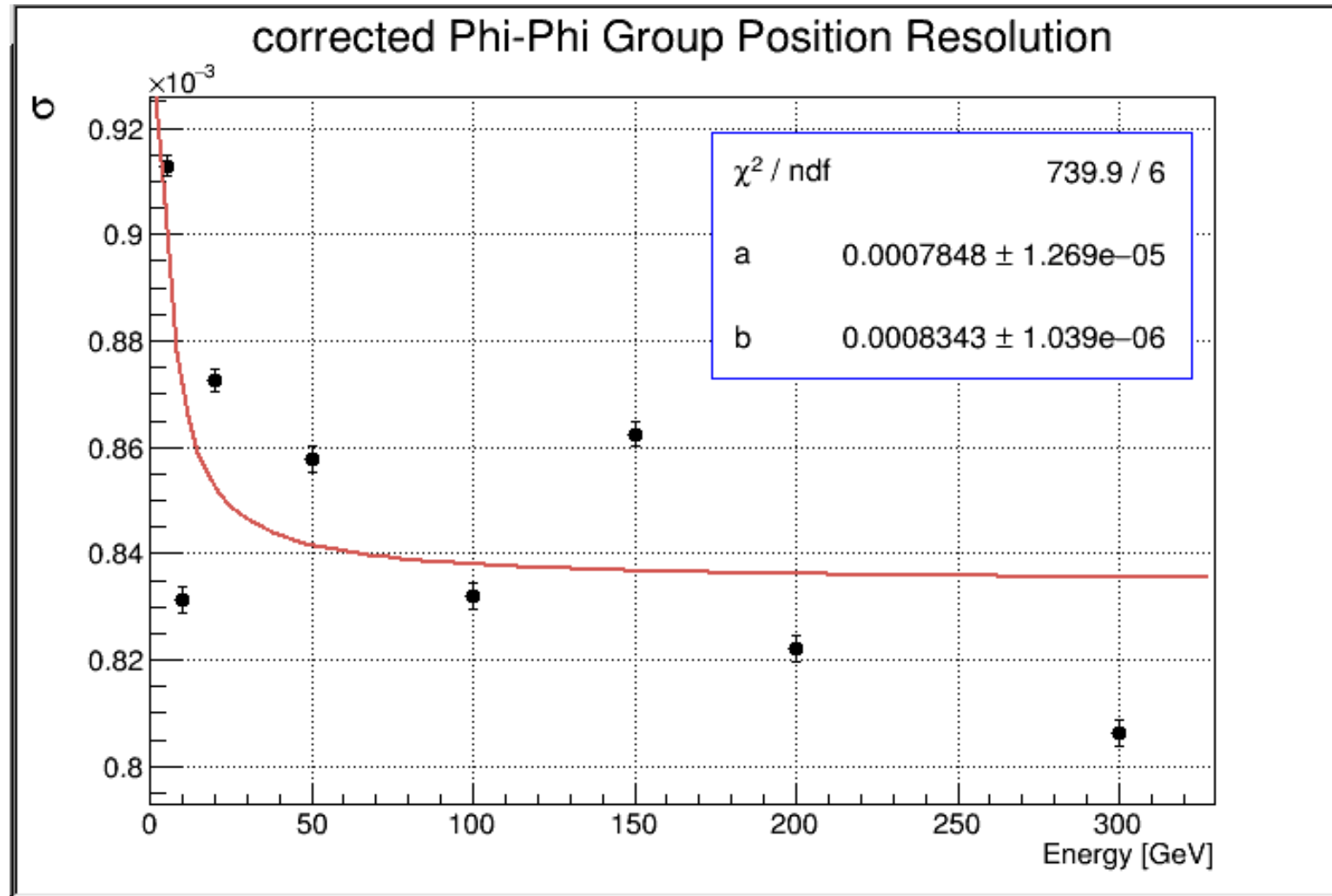
# $\varphi$ group corrected

$$3.1 < \eta_{\text{truth}} < 3.2$$





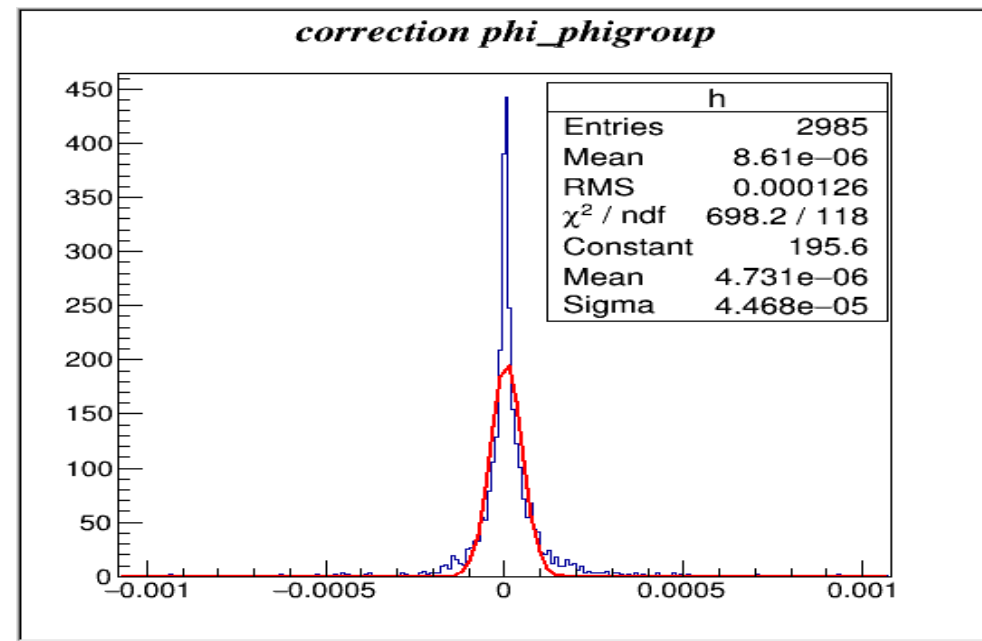
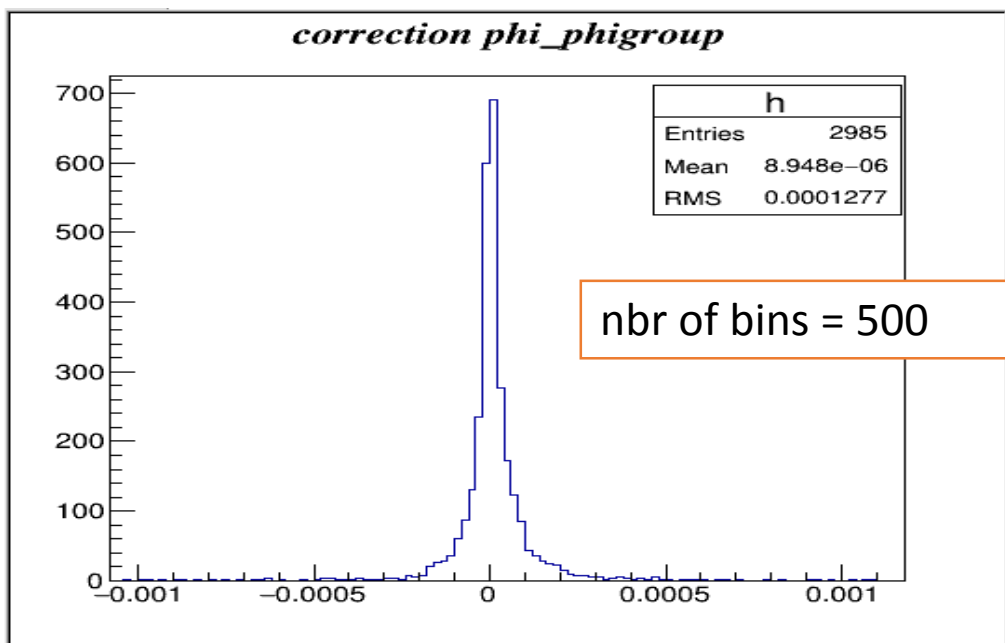
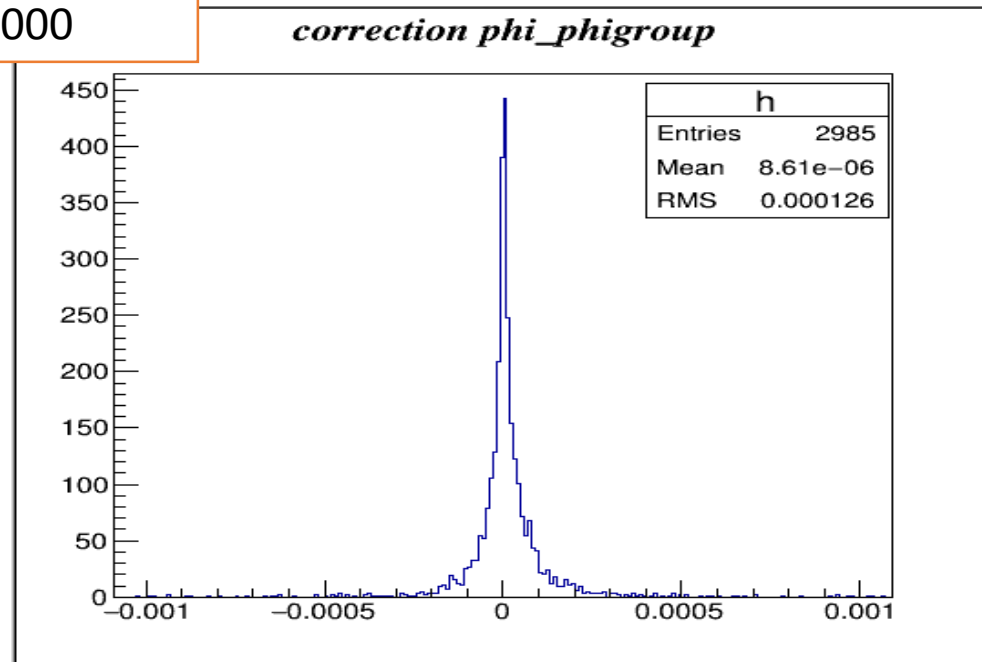
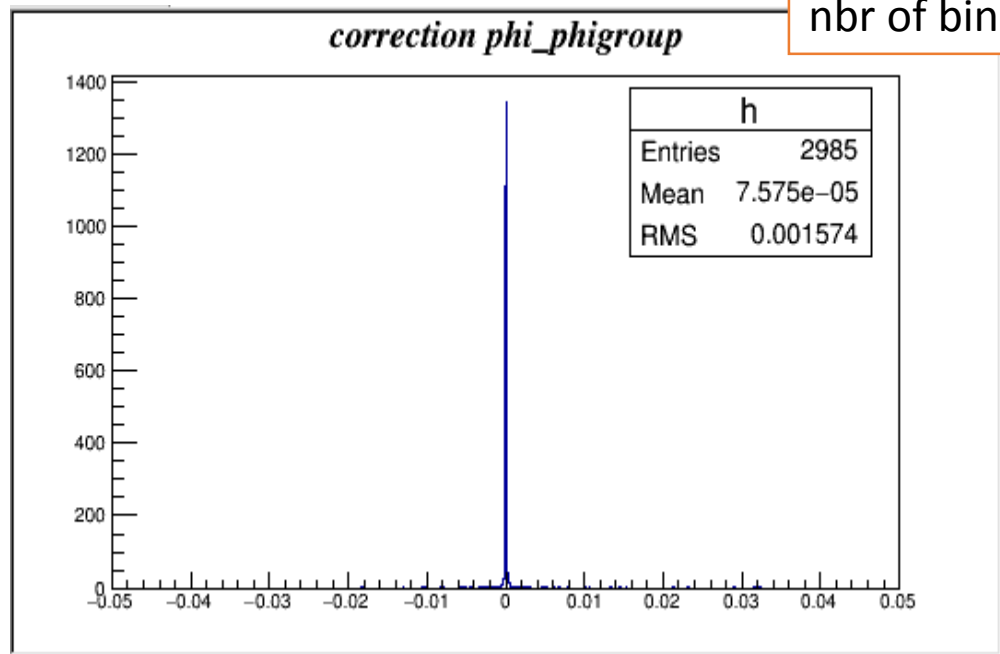
# Corrected $\varphi$ group Position Resolution





# Example of 5 GeV

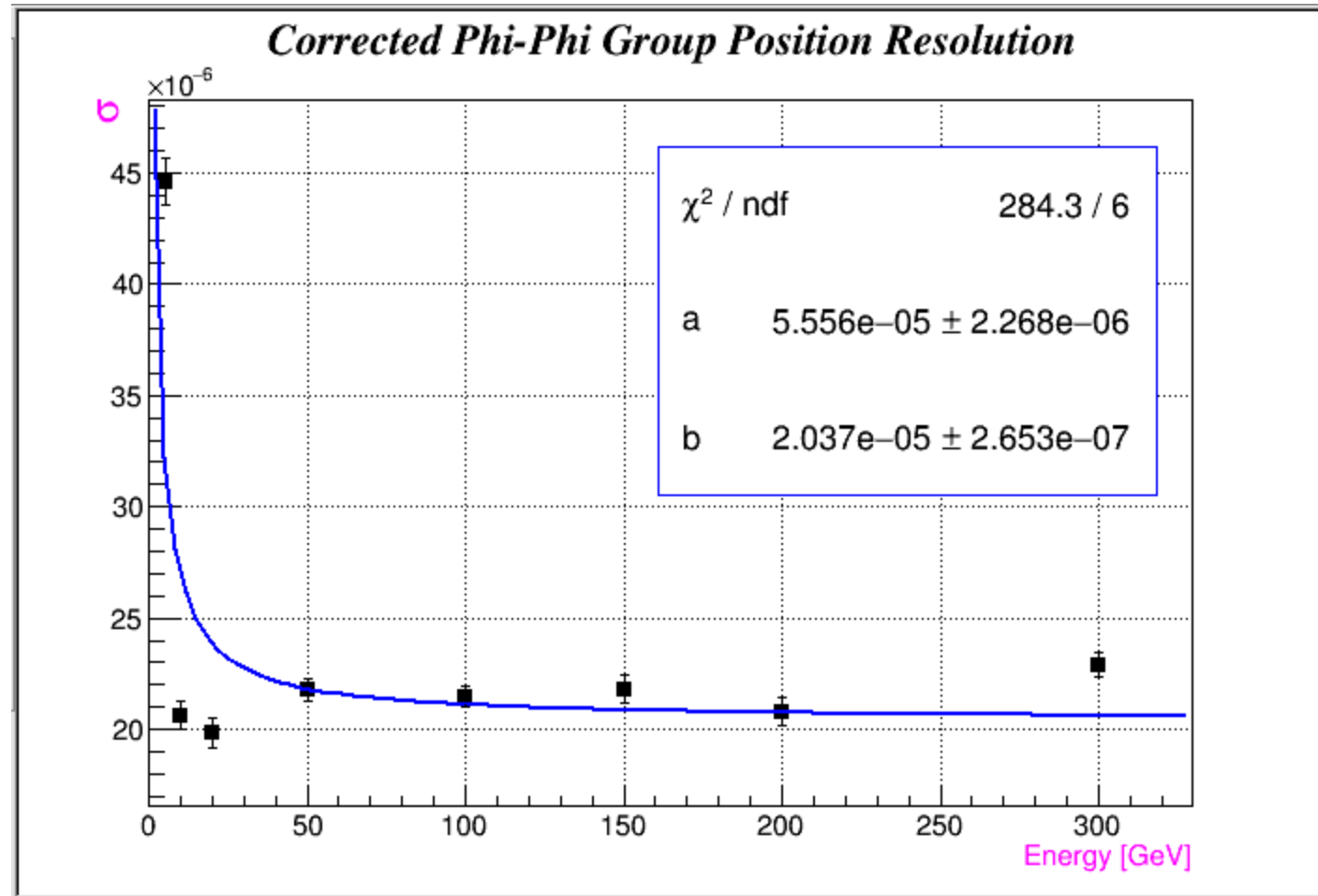
nbr of bins = 1000







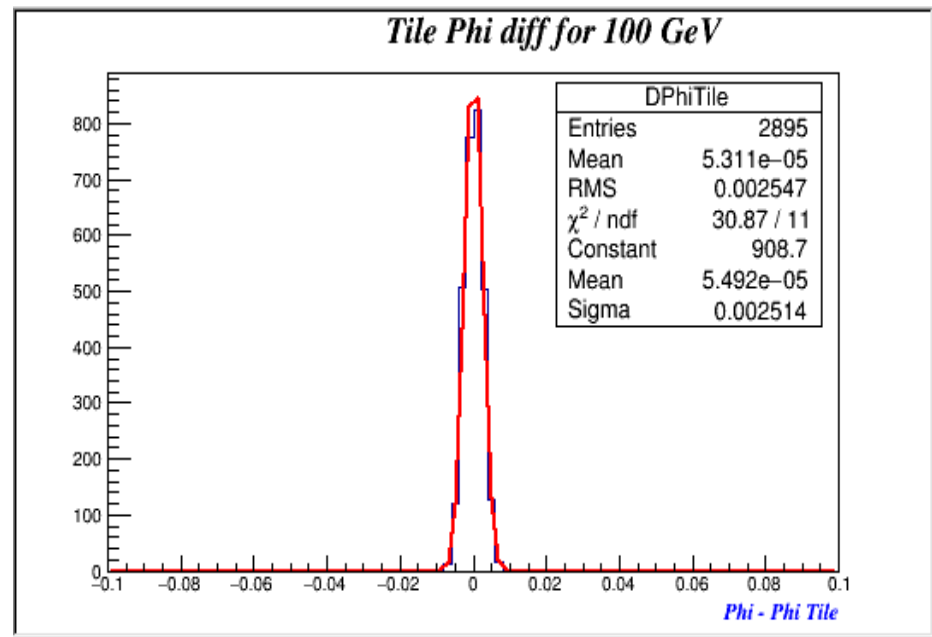
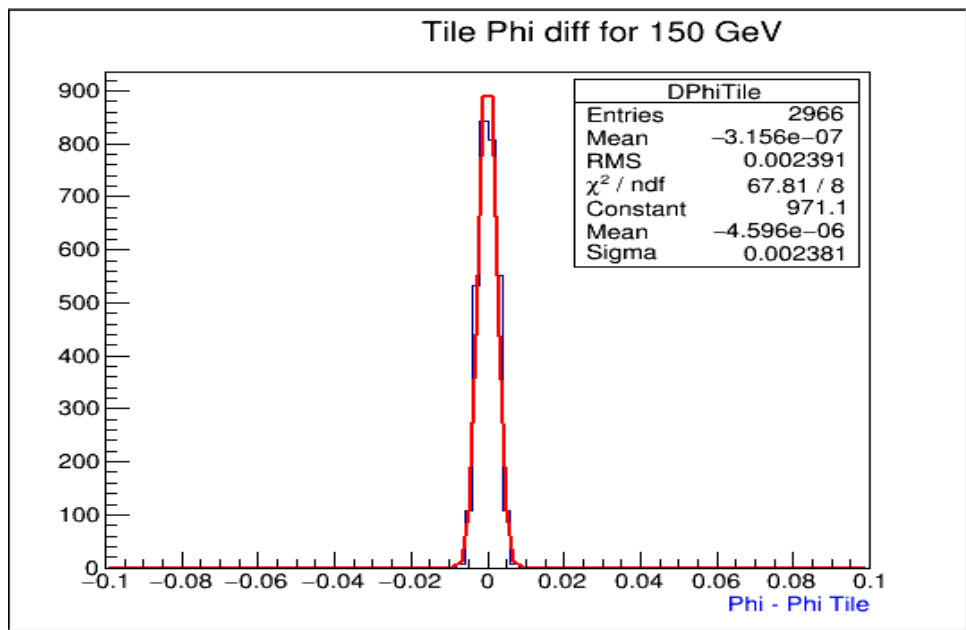
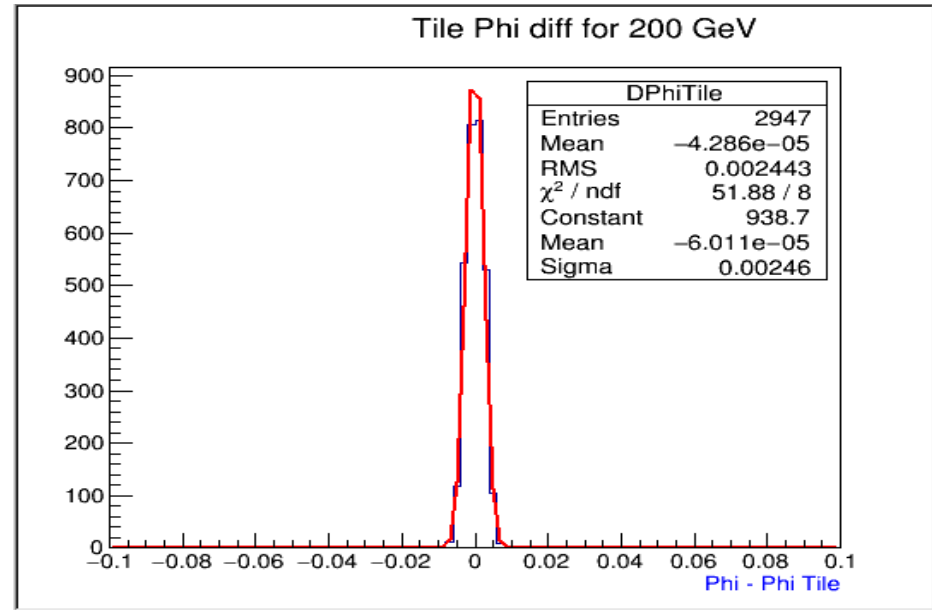
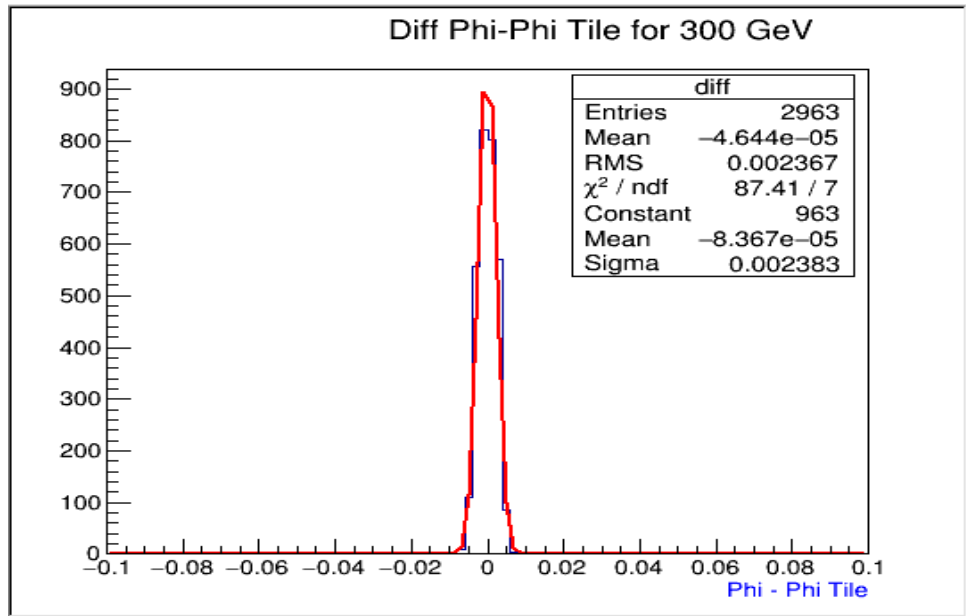
# Corrected $\varphi$ group Position Resolution





# $\varphi$ Tile

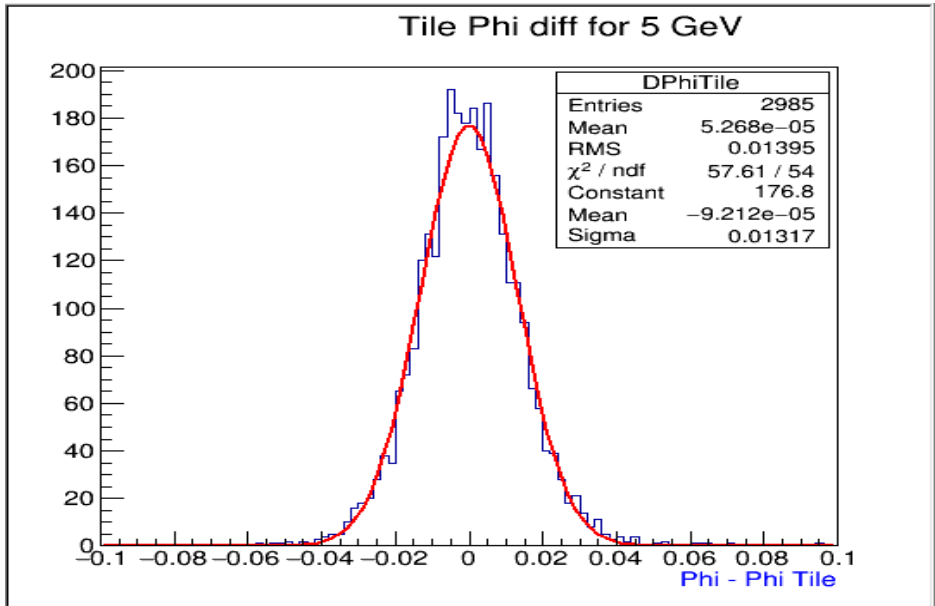
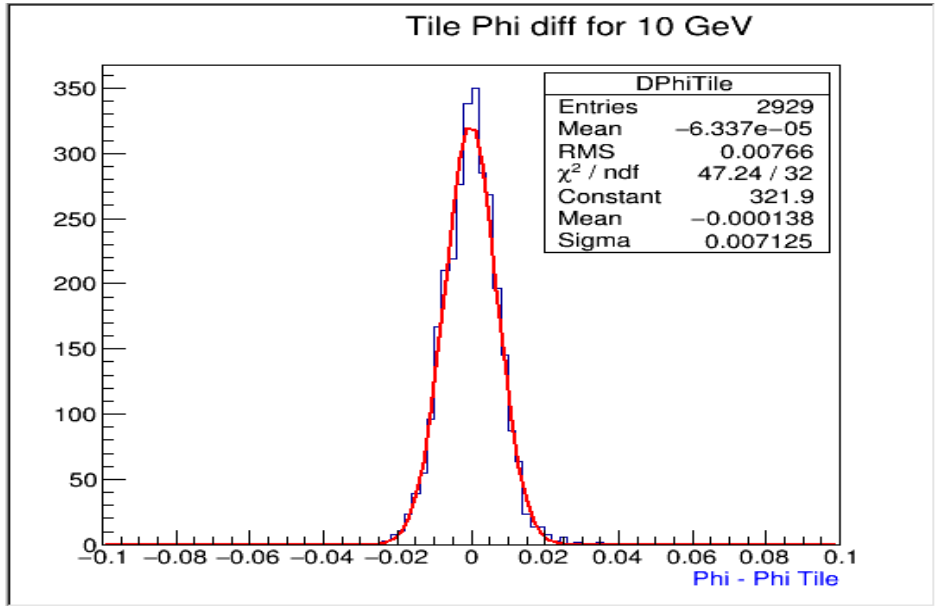
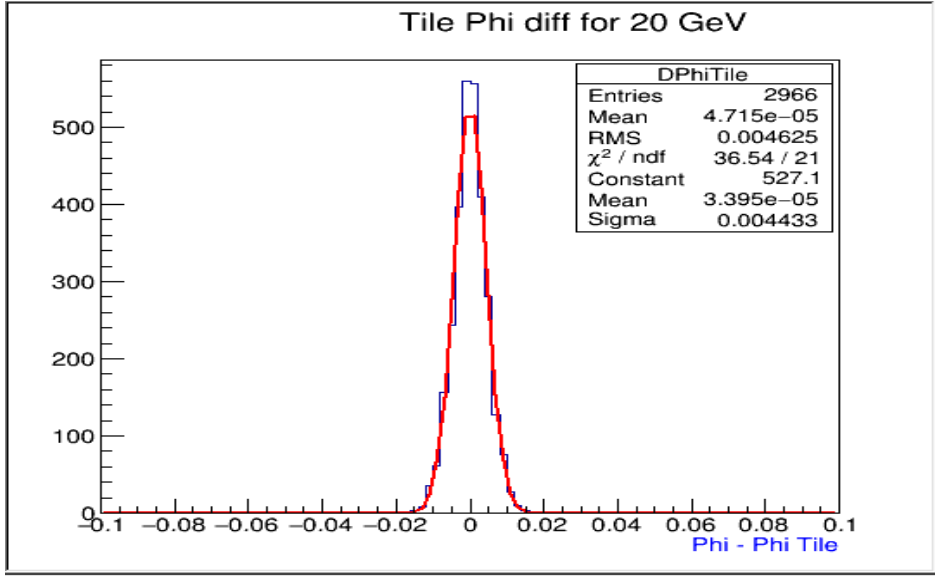
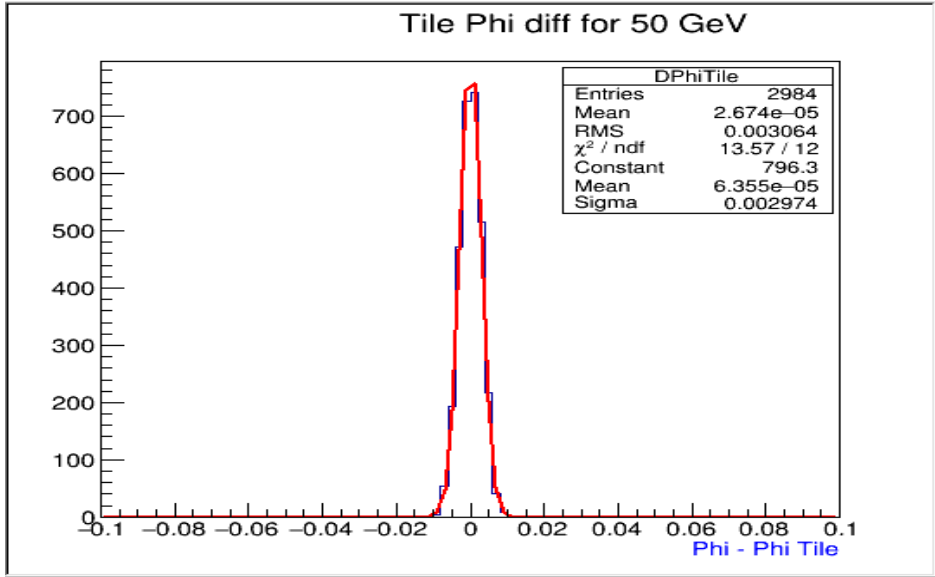
$$3.1 < \eta_{\text{truth}} < 3.2$$





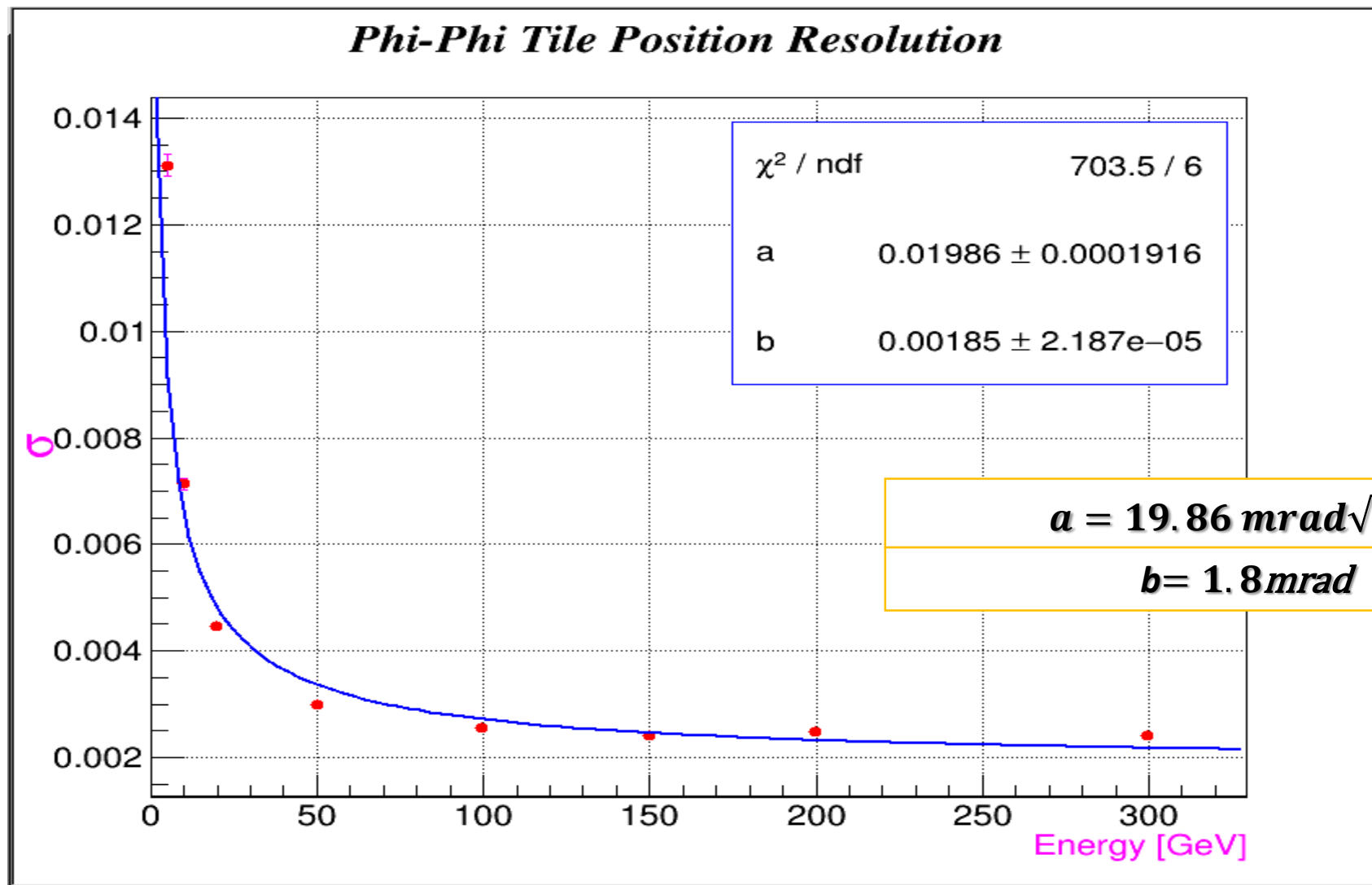
# $\varphi$ Tile

$$3.1 < \eta_{\text{truth}} < 3.2$$





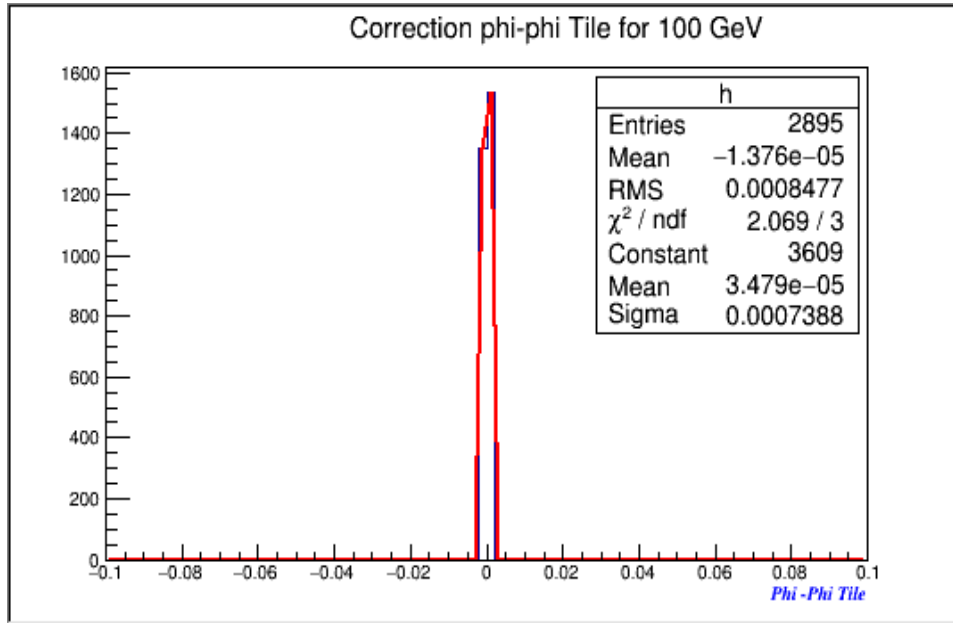
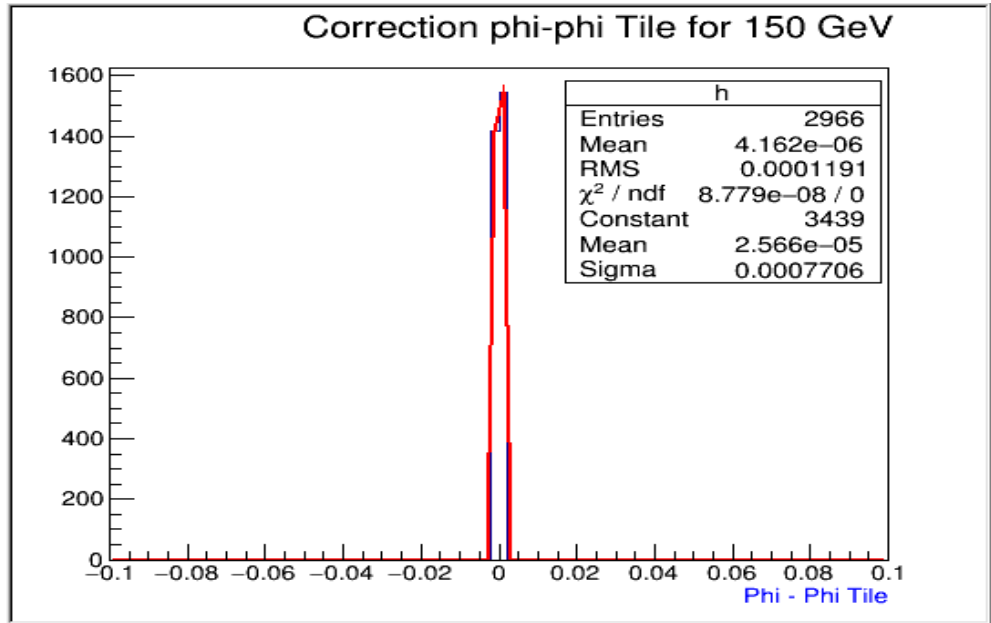
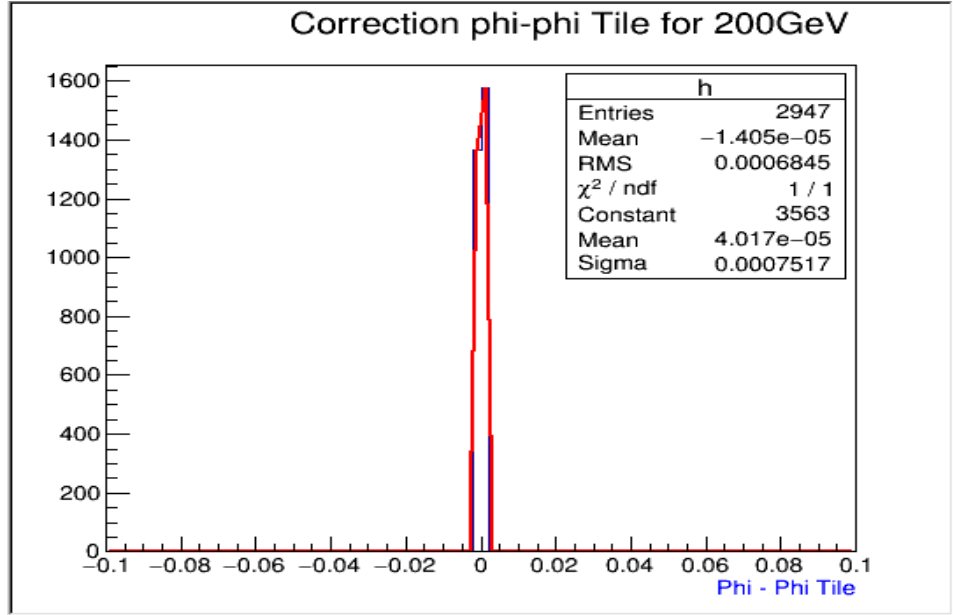
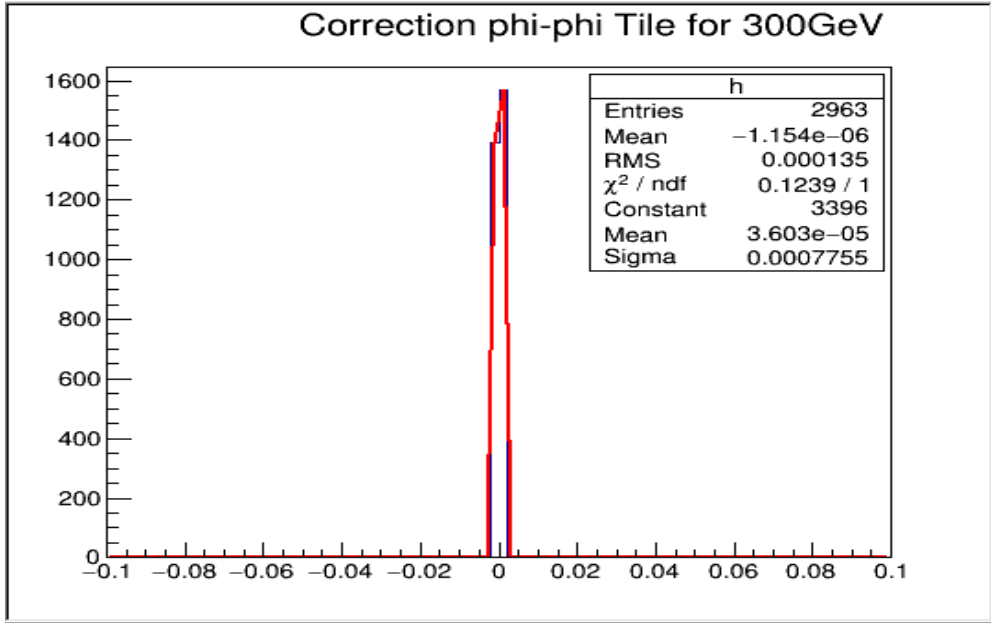
# $\varphi$ tile Position Resolution





# $\varphi$ Tile corrected

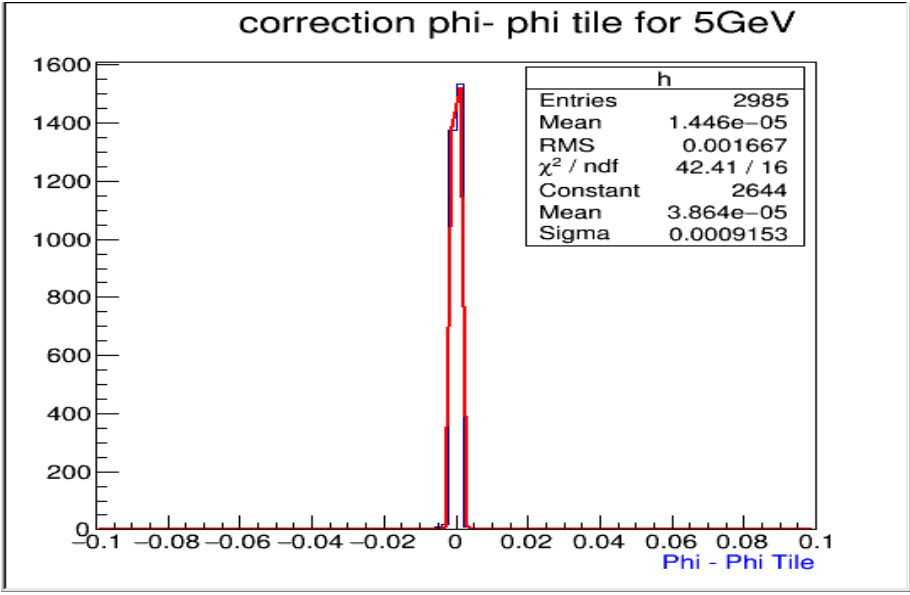
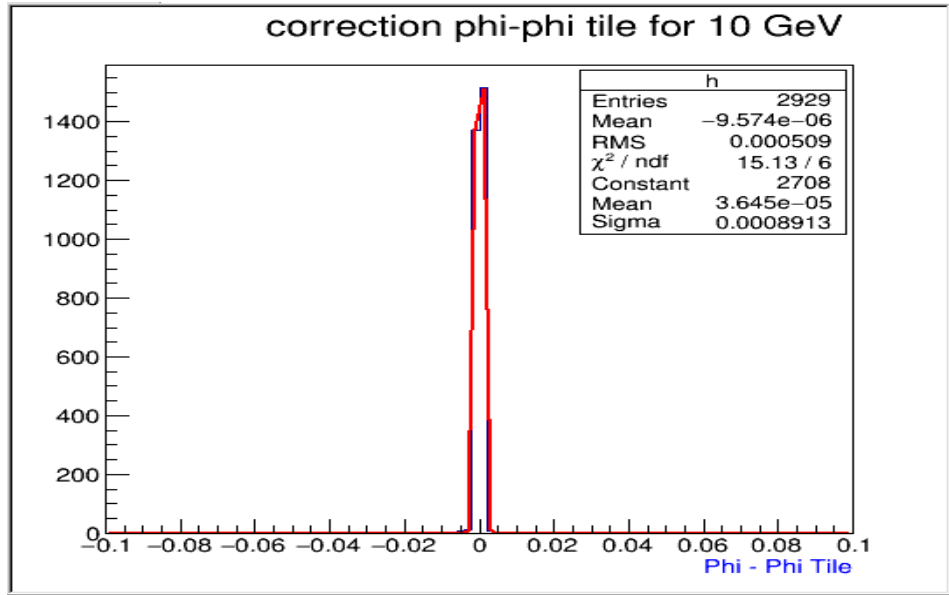
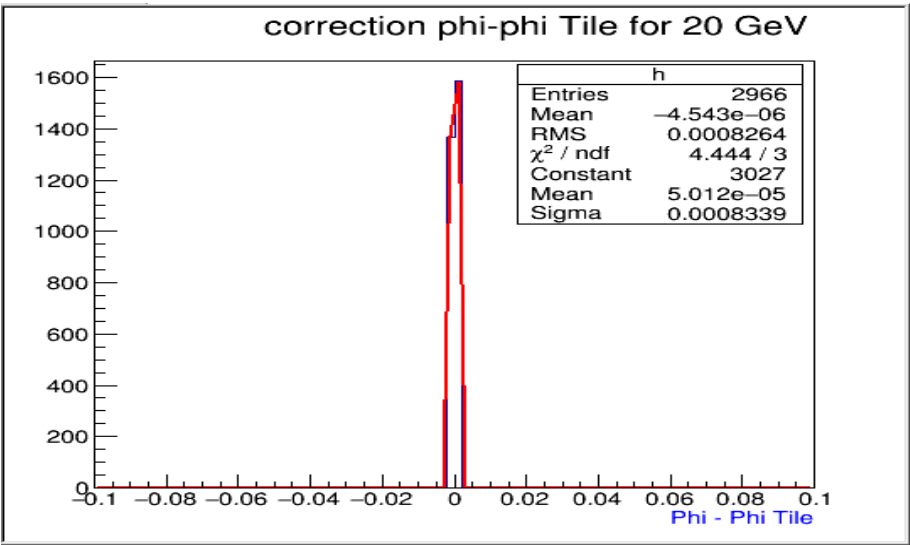
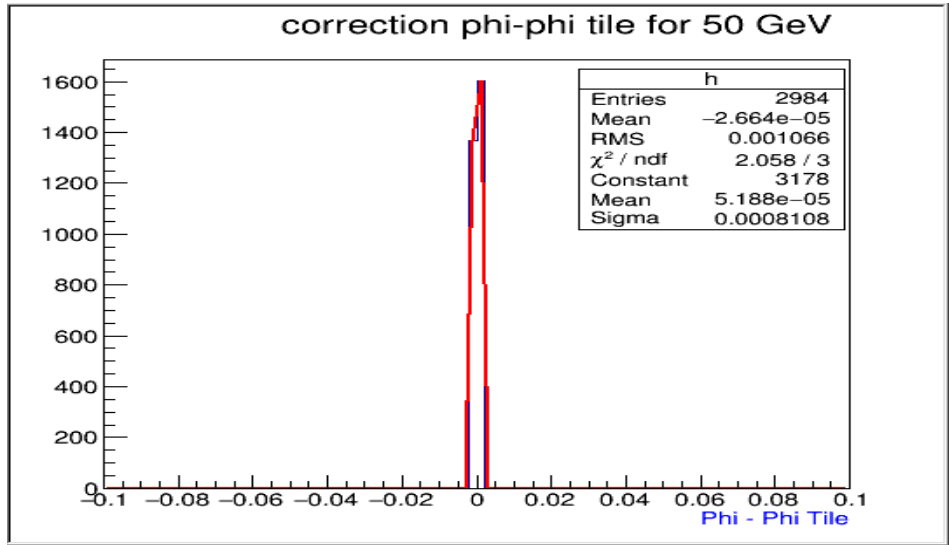
$$3.1 < \eta_{\text{truth}} < 3.2$$





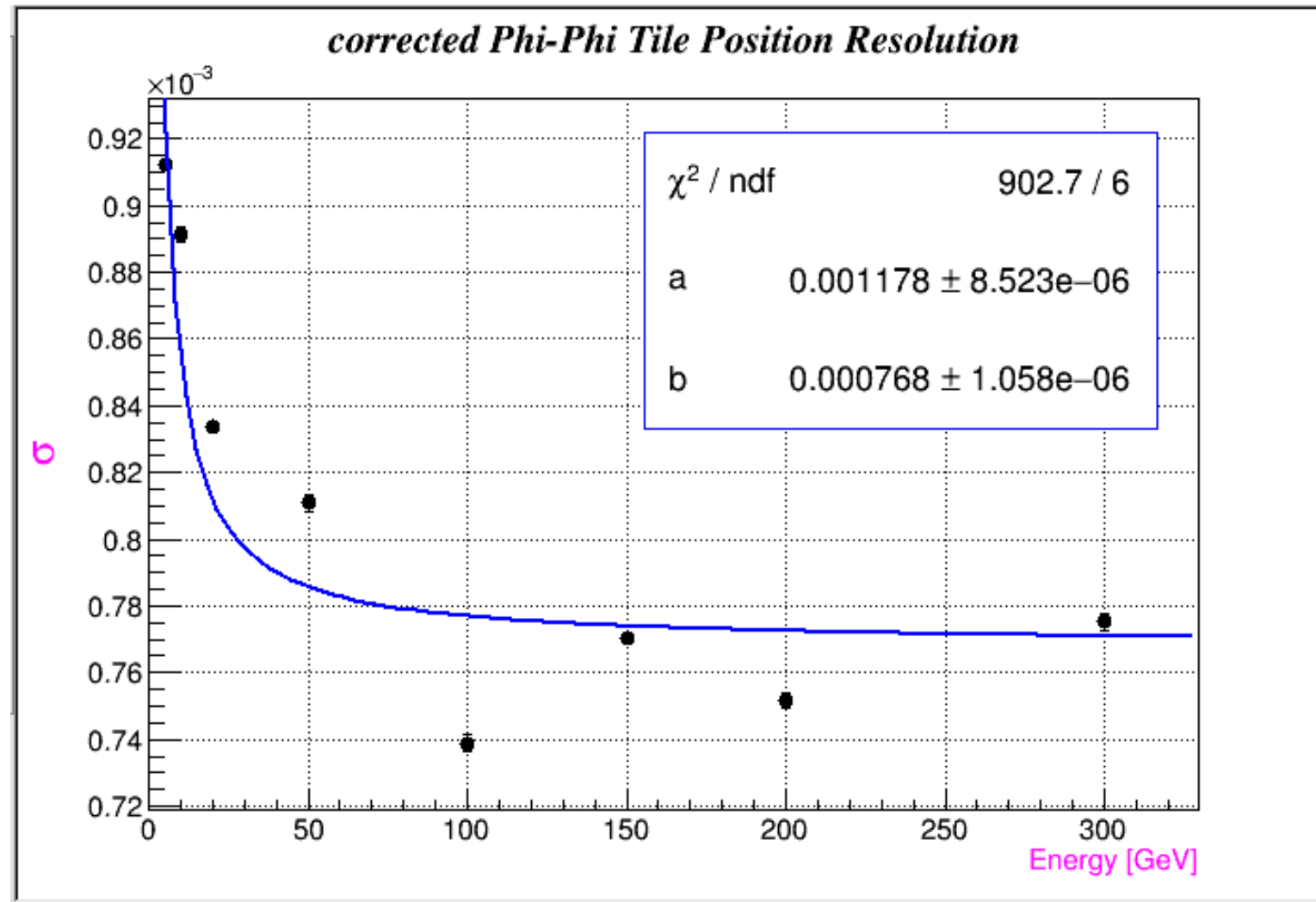
# $\varphi$ Tile corrected

$$3.1 < \eta_{\text{truth}} < 3.2$$



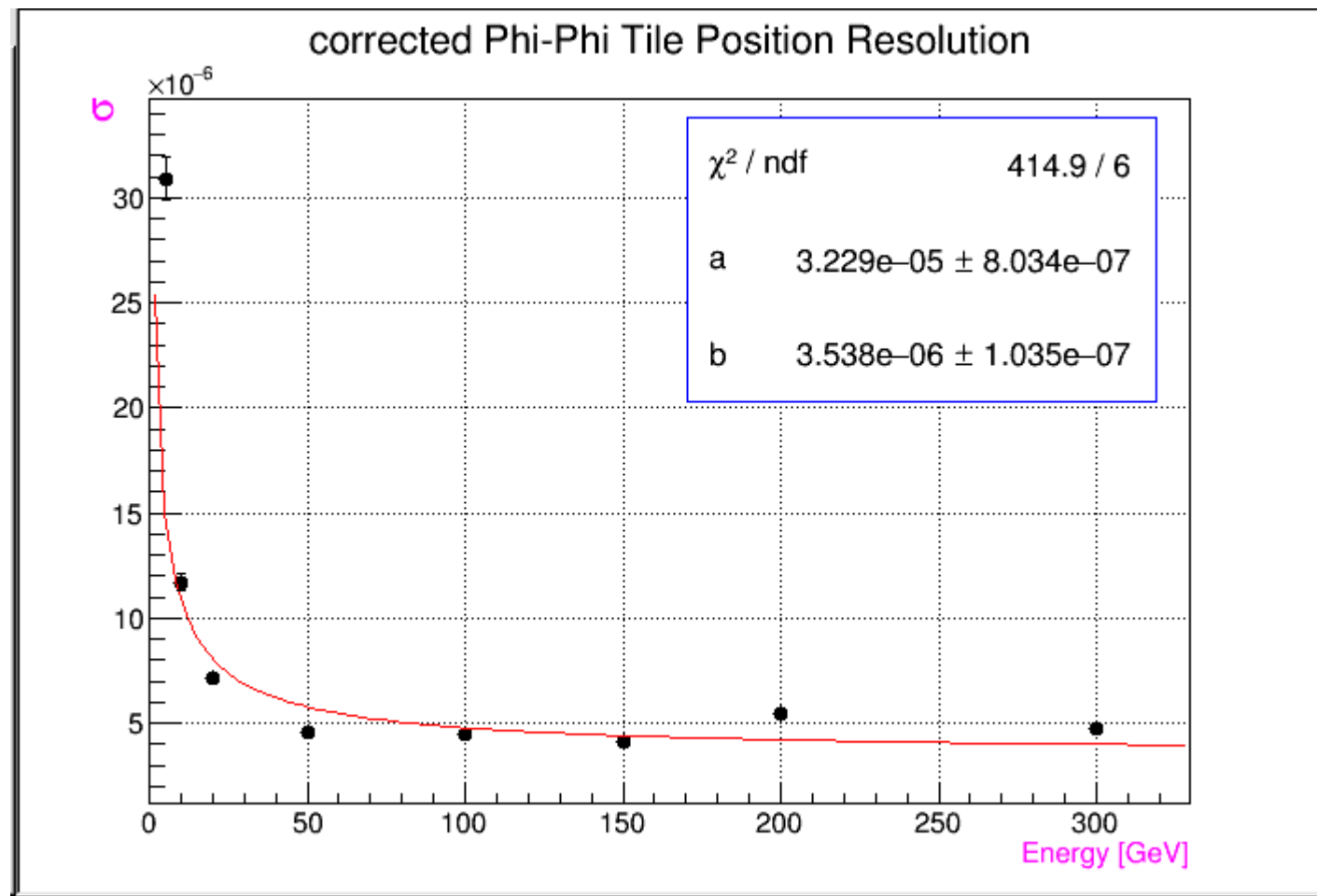
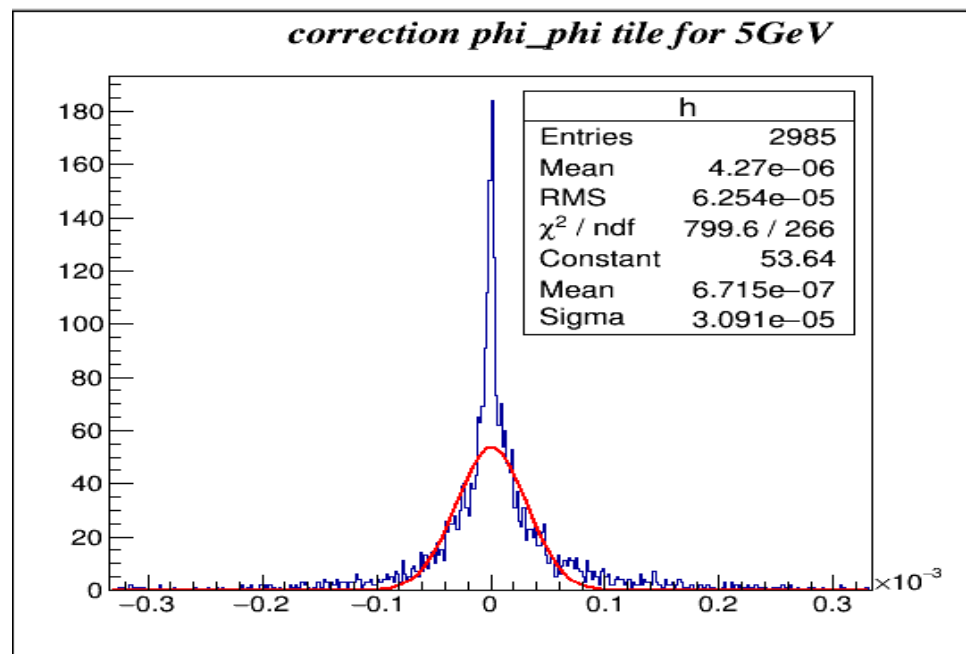


# Corrected $\varphi$ Tile Position Resolution





# Corrected $\varphi$ Tile Position Resolution







*Thank you*

