

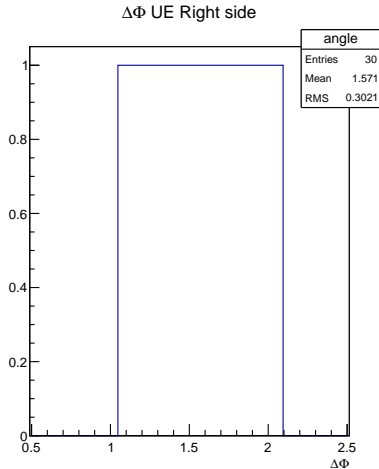
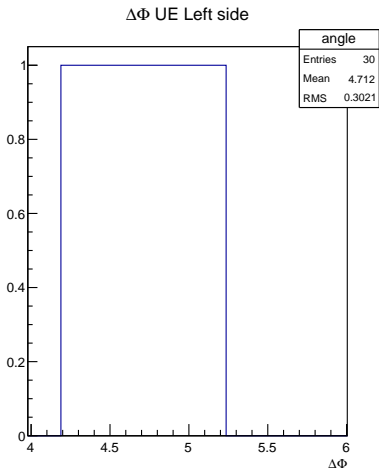
# Update distribution en $x_E$

Vauthier Astrid

15 mai 2014

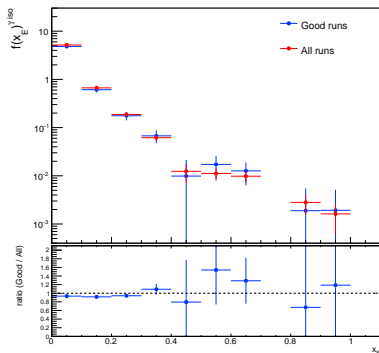
- Vérifier le plot en  $\Delta\Phi$  pour l'UE
- Voir l'effet des bad runs sur les distributions en  $x_E$
- Comparer les distributions en  $x_E$  entre les différents data sample choisis (L1 vs L1+L2 et [10-25] vs [12-25] GeV/c)
- Regarder s'il y a une différence entre l'UE en pp et pA

On ne voit plus de trou pour l'UE left → en accord avec le mail de Nicolas



# Effet des bad runs sur les distributions en $x_E$

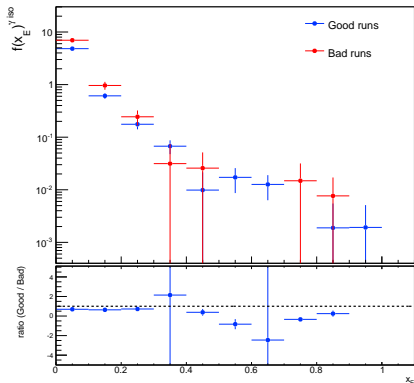
On veut savoir si les runs qu'on a jugé mauvais influent beaucoup sur la distribution en  $x_E$  des photons isolés.  
La statistique est réduite  $\rightarrow$  on compare la sélection des bons runs avec l'ensemble des runs (bons + mauvais)



$\Rightarrow$  on ne peut pas vraiment conclure

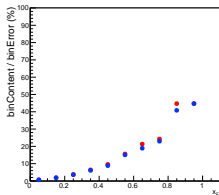
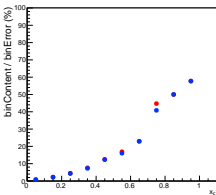
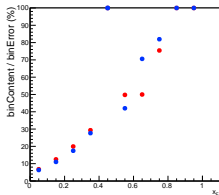
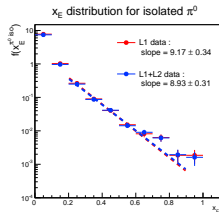
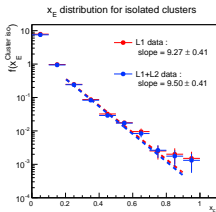
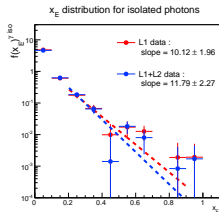
# Effet des bad runs sur les distributions en $x_E$

On compare donc la distribution pour les bons runs vs celle pour les mauvais runs

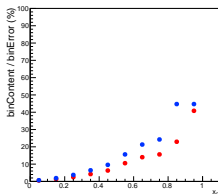
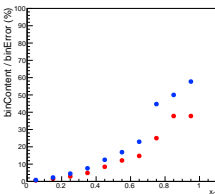
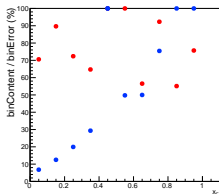
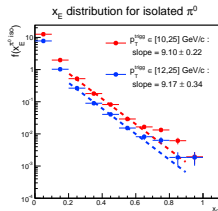
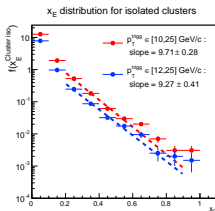
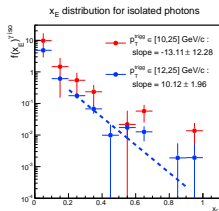


⇒ on n'est pas compatible avec les barres d'erreurs

# L1 vs L1+L2

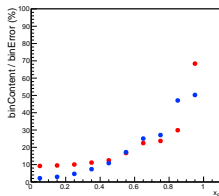
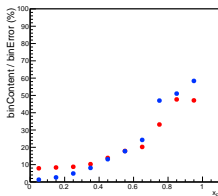
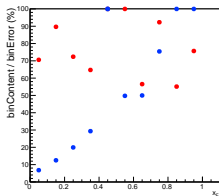
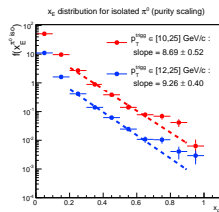
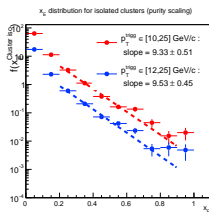
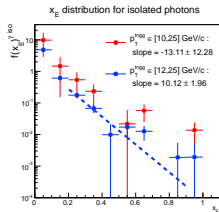


Compatible dans les barres d'erreurs et l'incertitude est bien réduite pour L1+L2



Interrogation : pente négative pour les photons isolés

Autre problème : Décalage des distributions lorsqu'on tient compte du facteur de pureté





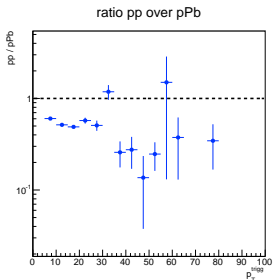
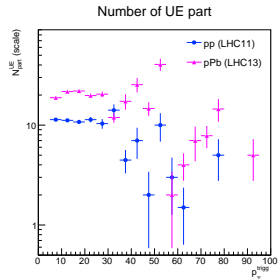
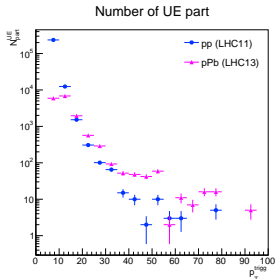
- Prendre en compte L1+L2 pour l'analyse → gain de 10% en statistique
- On ne descend pas en dessous de 12 GeV/c car la pureté devient trop basse

On compare les UE entre les datas LHC11cdAll et les bons runs LHC13def

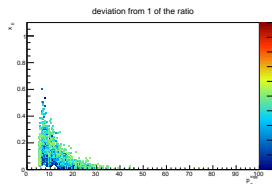
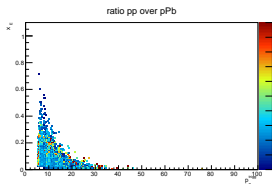
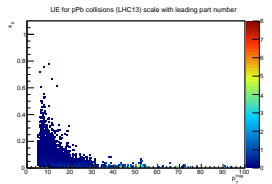
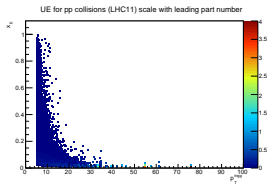
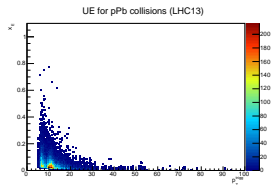
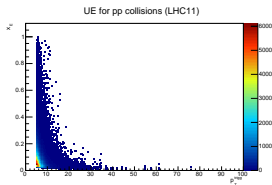
Quelle est la différence entre l'UE en pp et pPb en nombre de particules et en  $x_E$

# UE en pp vs UE en pA : nombre de particules

Plus d'UE par particule  
trigger pour pA



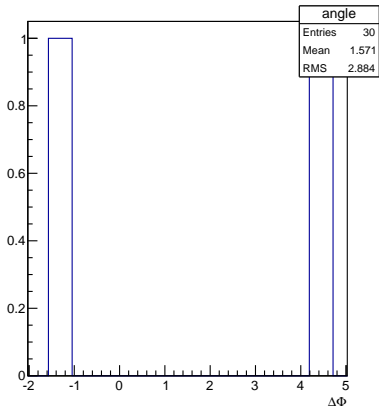
# $x_E$ pour l'UE pp vs pA $\rightarrow$ PRELIMINAIRE



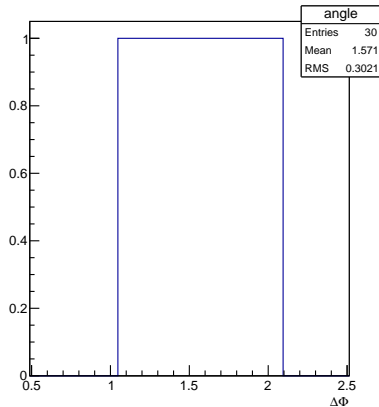
# BACKUP

# Back Up : Plot initial UE

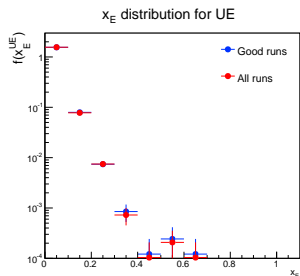
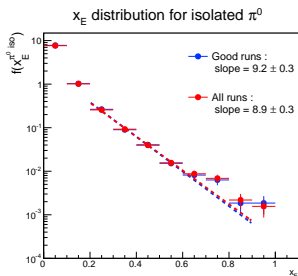
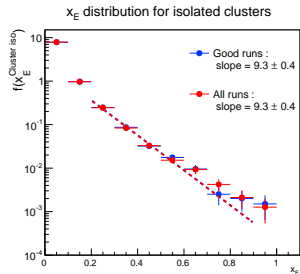
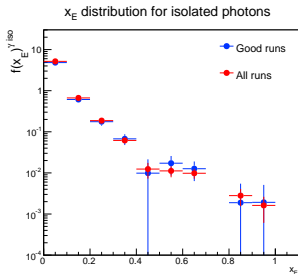
$\Delta\Phi$  UE Left side



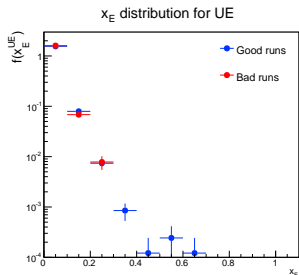
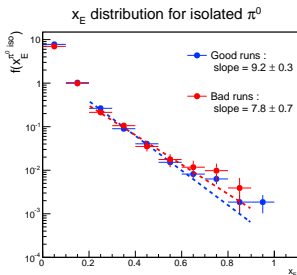
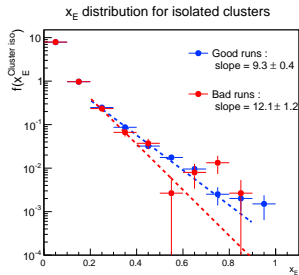
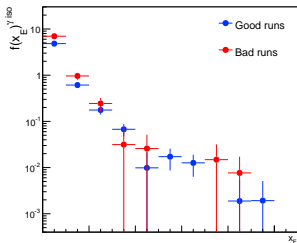
$\Delta\Phi$  UE Right side



# Back Up : Good vs All

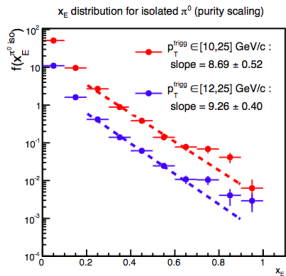
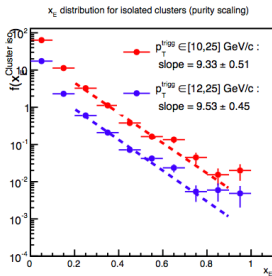
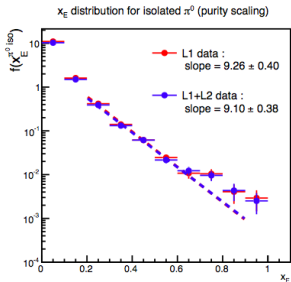
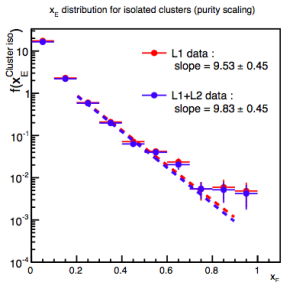


# Back Up : Good vs Bad





# Back Up : Décalage du à la pureté



# Back Up : Décalage du à la pureté

