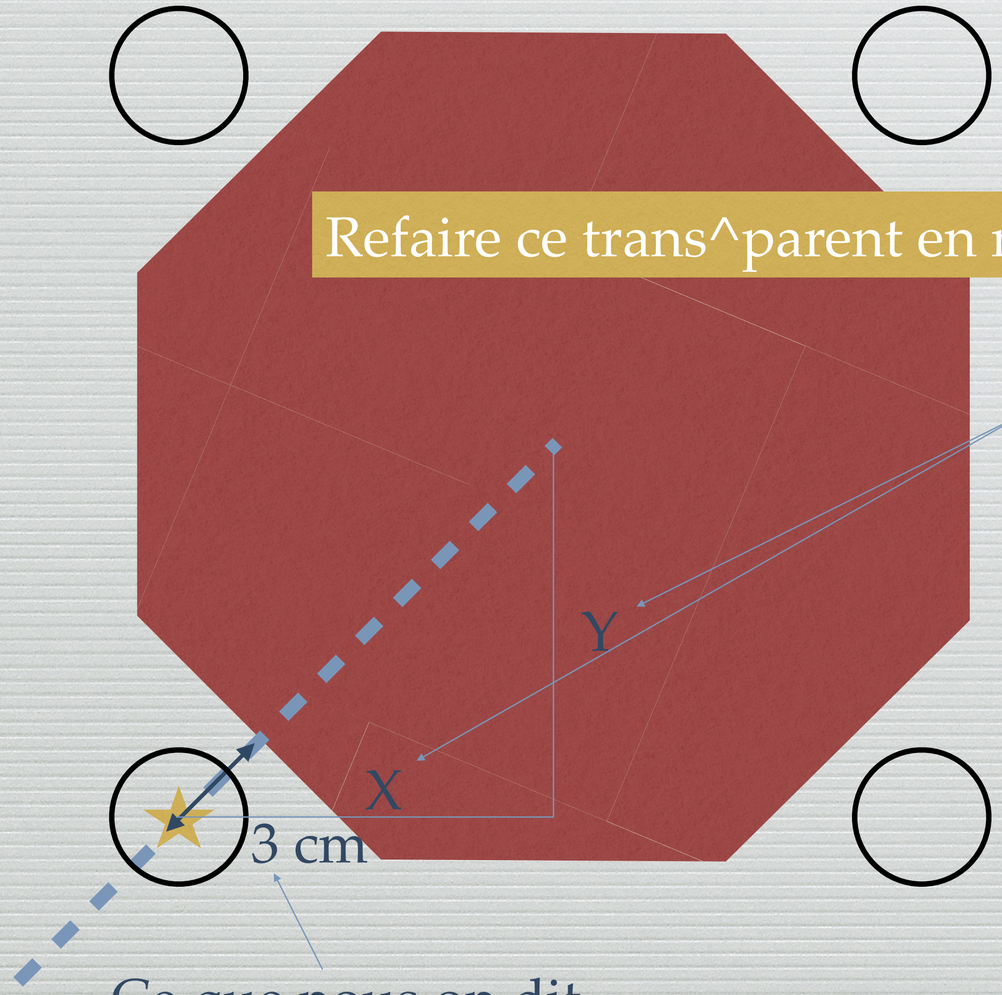
Vue de coupe

Vue de dessous

Refaire ce trans^parent en mettant entre quoi et quoi sont pris les 3 et 1 cm



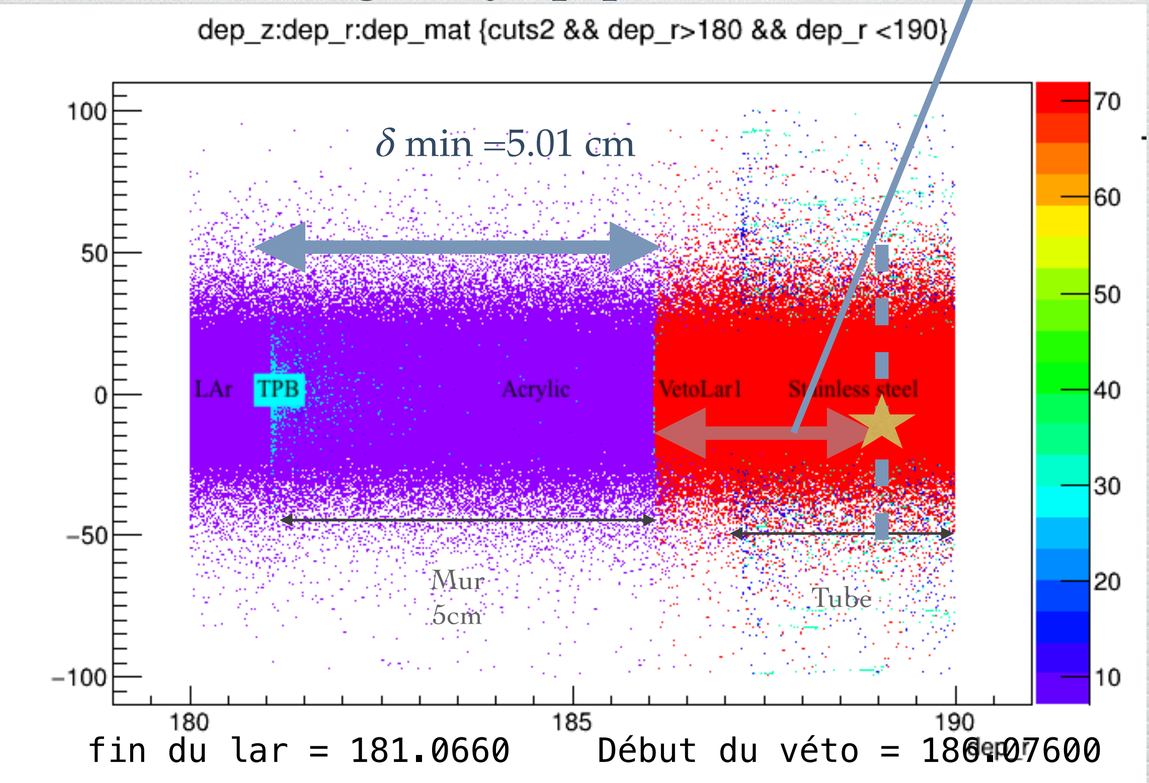
Vue de côté

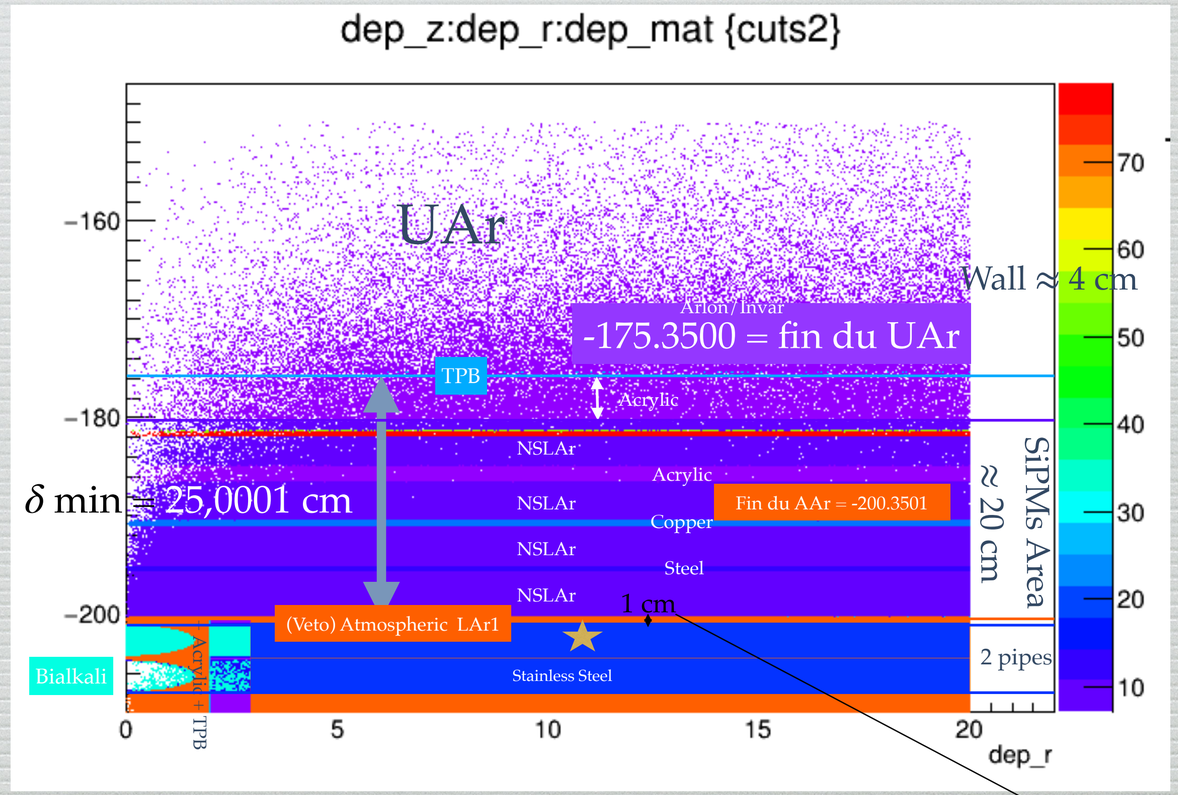
PLAN A

/ds/detector/gantry/distanceTPCside 3.0 cm

/ds/detector/gantry/pipeID 3.0 cm

/ds/detector/gantry/pipeWall 1.5 mm





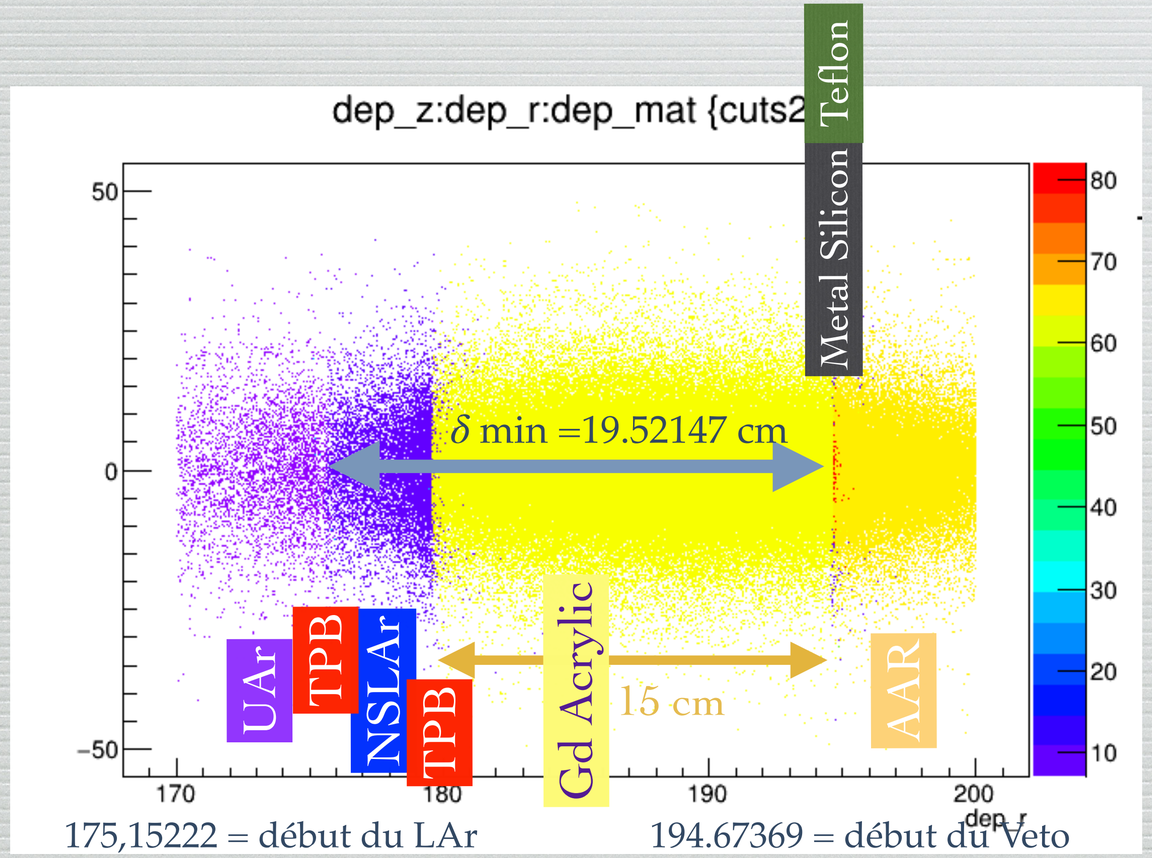
/ds/detector/gantry/distanceTPCbottom 1.0 cm

Regarder comment les distances sont utilisées dans le code dans src

PLAN C

Gd Acrylic Acrylic dopé au Gd

/ds/generator/position -1397.76 -1397.76 0.0 mm



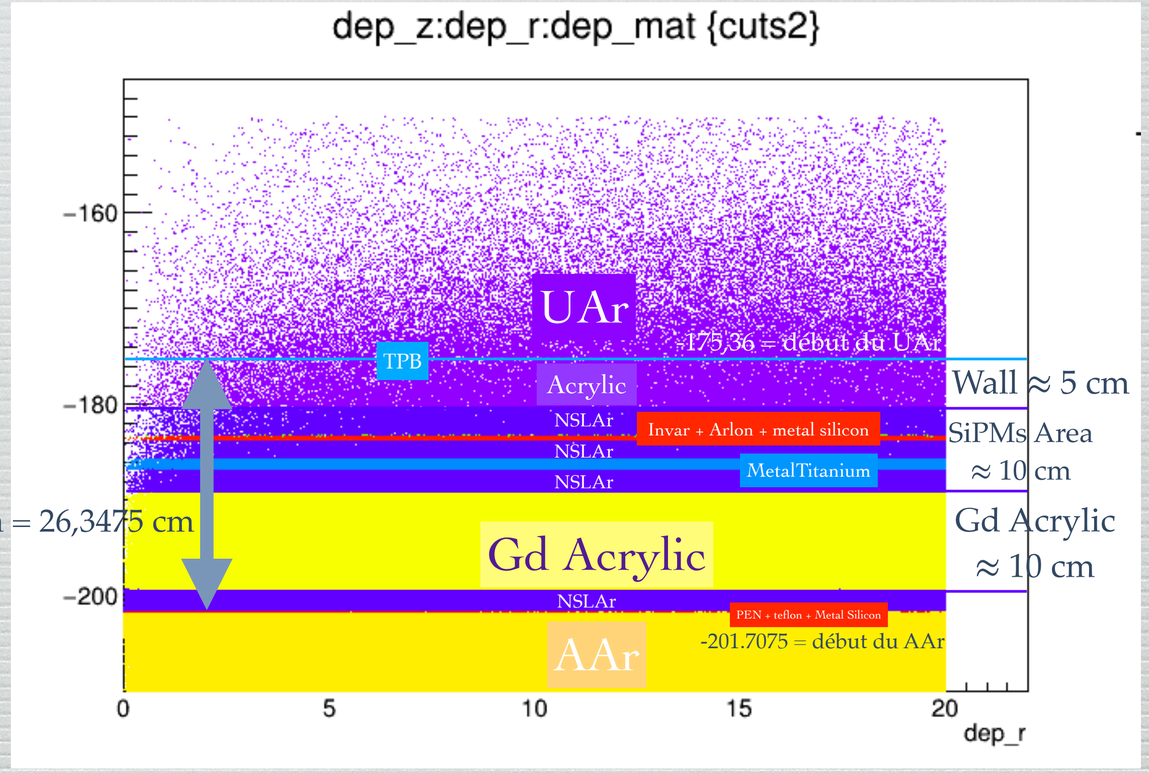
175,15222 = début du LAr

194.67369 = début du Veto

PC : AAr à 22.5 cm de UAr

22.5 cm = 6.5 cm de Ar + 15 cm Gd

Vs PA : AAr à 5 cm de UAr = 5 cm de mur



PC : Aar à 26.3 cm de UAr

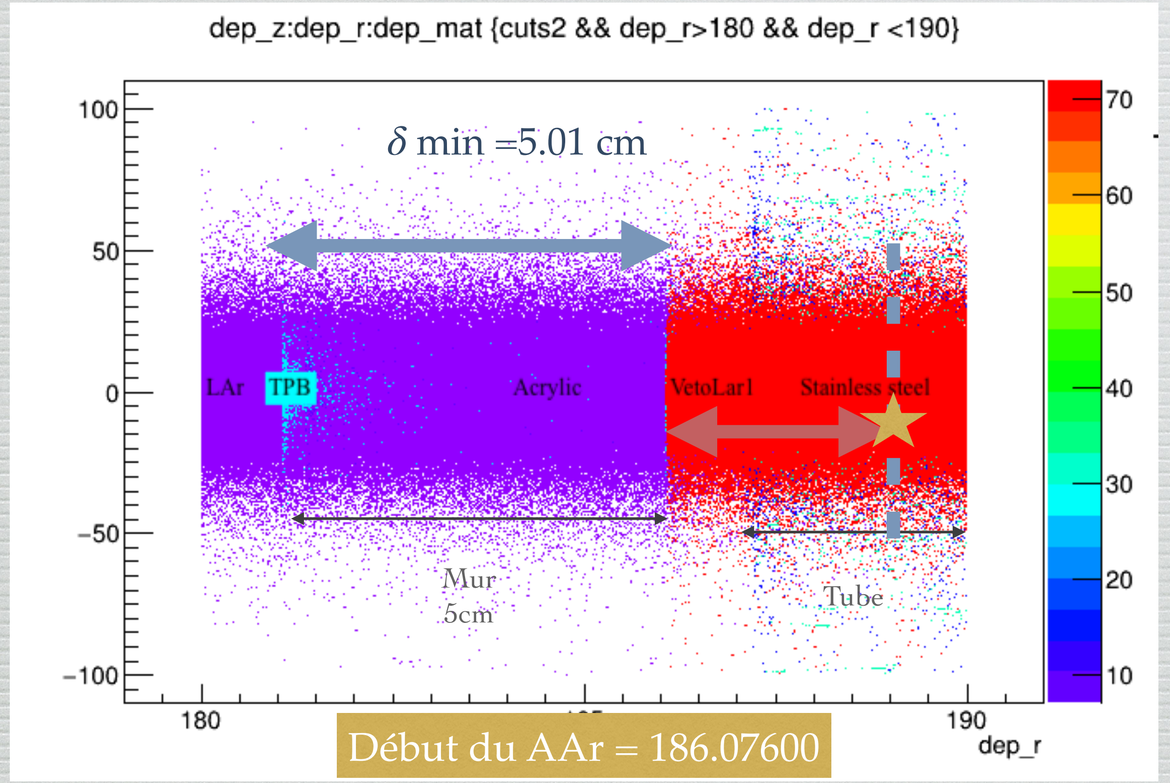
26.3 cm ≈ 2 cm de Ar + 10 cm Gd + 10 cm SiPMs+ 5 cm mur

Vs PA : Aar à 25 cm de UAr

25 cm ≈ 20 cm SiPMs+ 5 cm mur

PROBLÈME SOULEVÉ PAR FABRICE

Coté TPC



Début du AAr = 186.07600

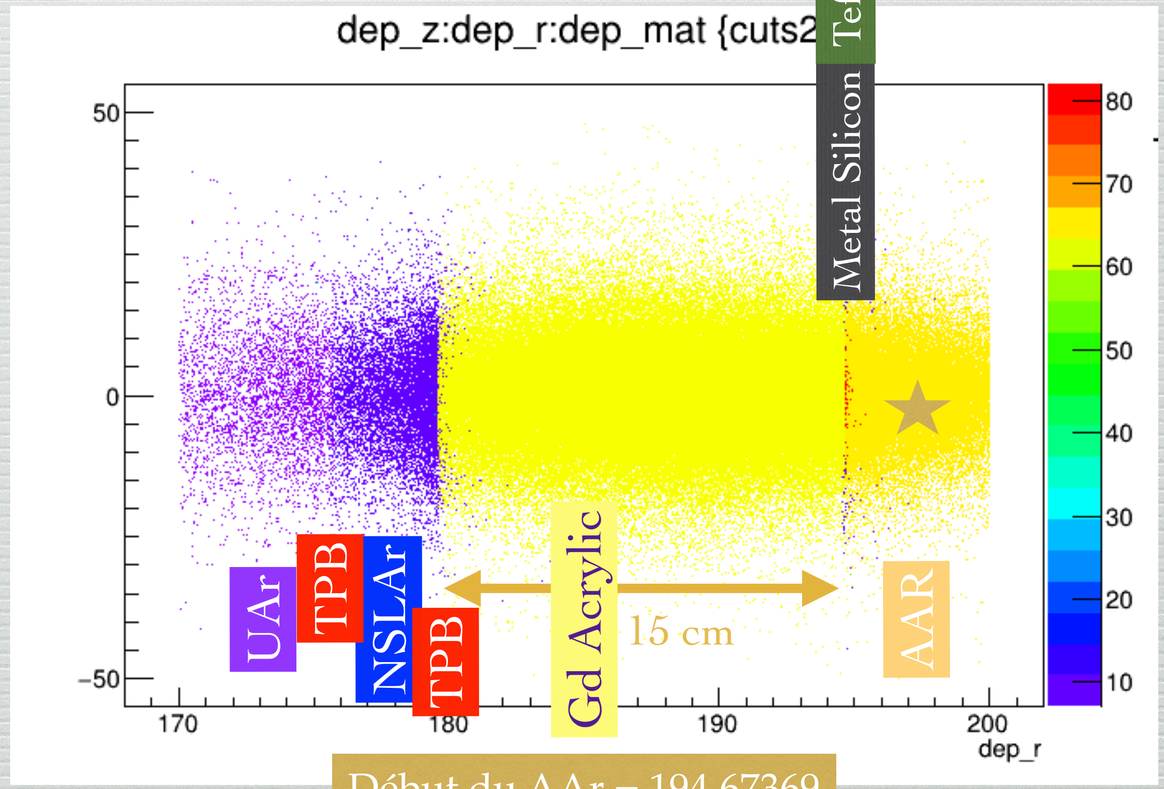
&

Source à 3 cm + distance début AAr <=> r = 1890.7600 mm

<=> x = y = -1336.97 mm

≠

Code : -1348.64 -1348.64 0 mm



Début du AAr = 194.67369

&

Source à 3 cm + distance début AAr <=> r = 1976.7369 mm

<=> x = y = -1397.76 mm

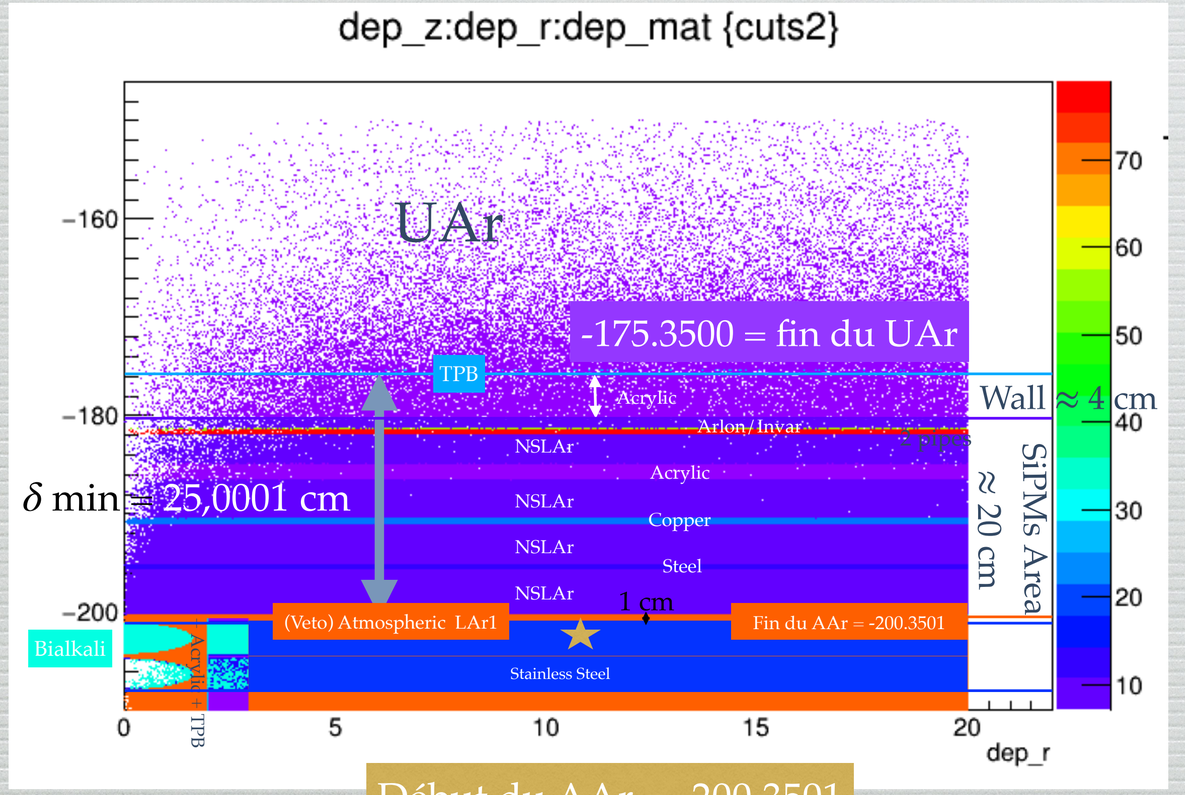
&

Code : -1397.76 -1397.76 0 mm

OK

PROBLÈME SOULEVÉ PAR FABRICE

Sous TPC



Début du AAr = -200.3501

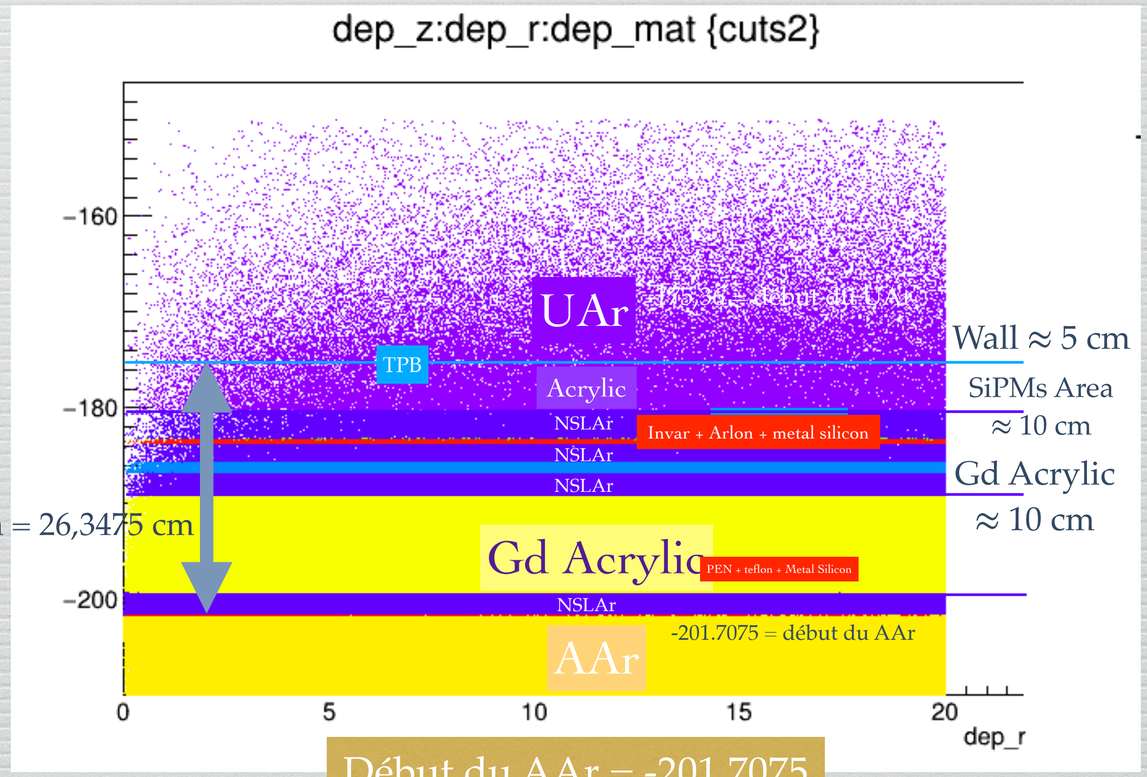
&

Tube à 1 cm + source à 1.5 cm du tube
+ distance début AAr <=> z = -2028.50 mm

≠

Code : 0 0 -2027.075 mm

OK



Début du AAr = -201.7075

&

Tube à 1 cm + source à 1.5 cm du tube
+ distance début AAr <=> z = -2043.08 mm

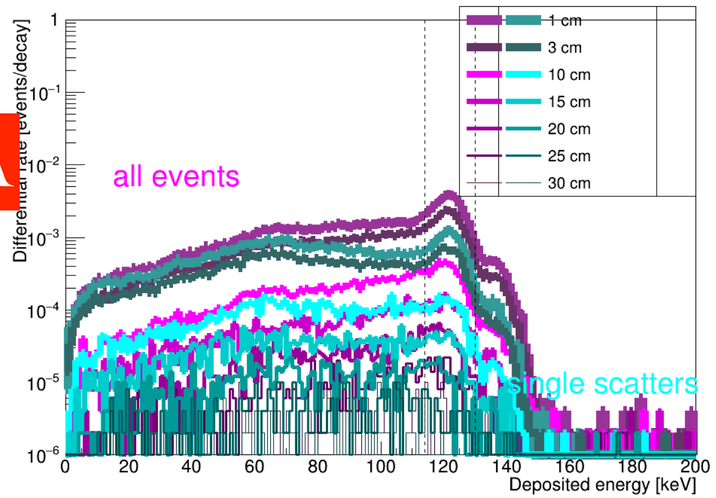
≠

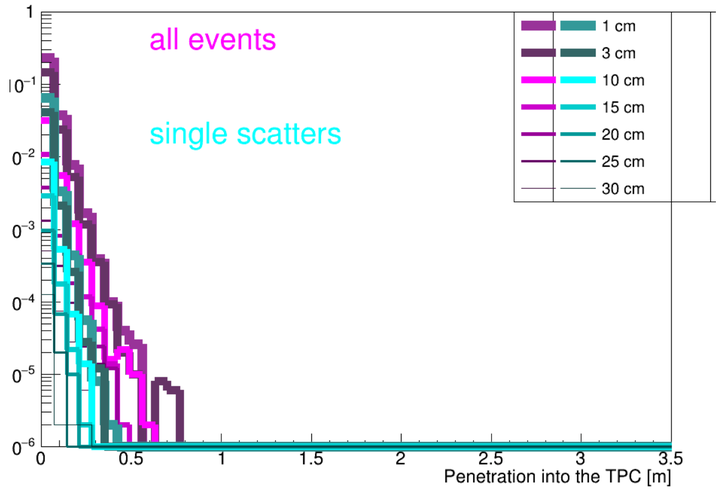
Code : 0 0 -2027.075 mm

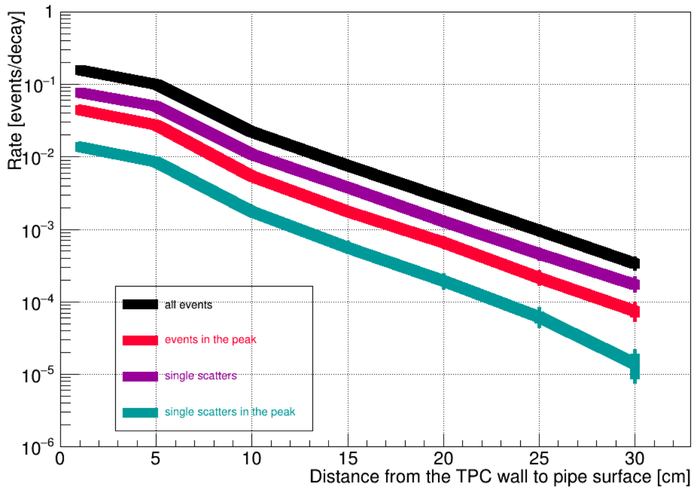
Plan A vs plan C

Co57

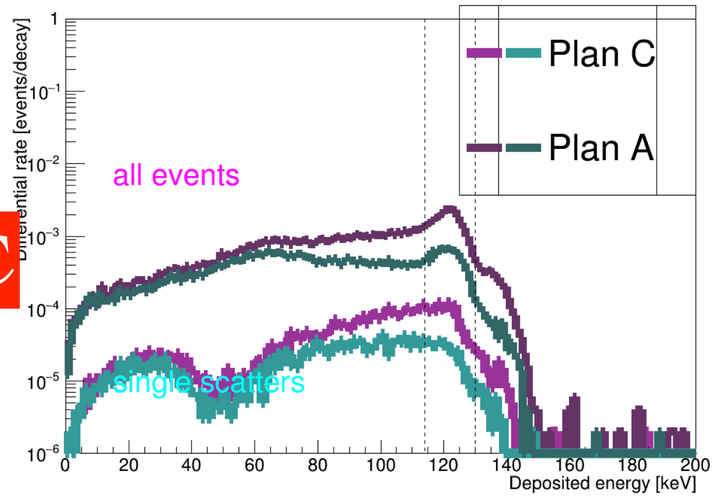
PLAN A

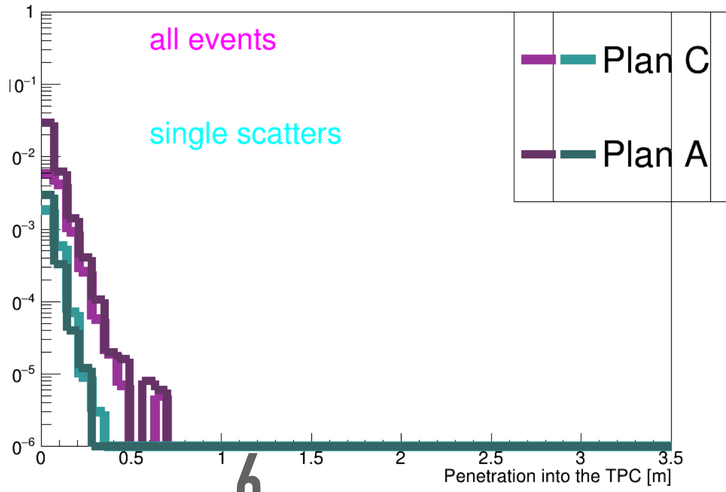


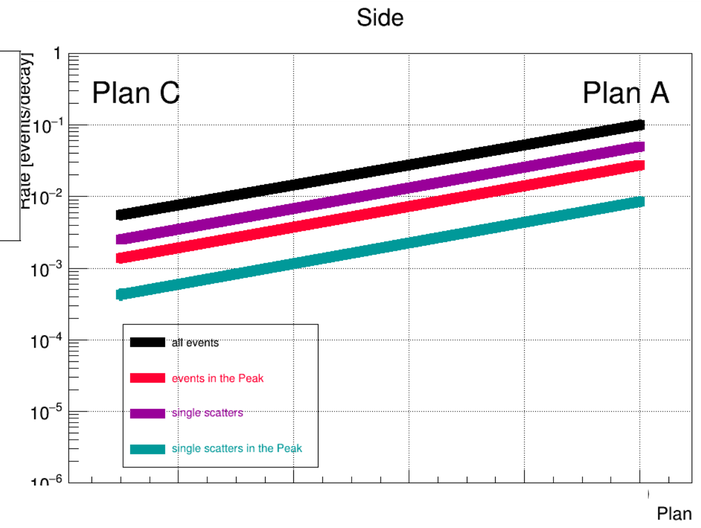




PLAN C







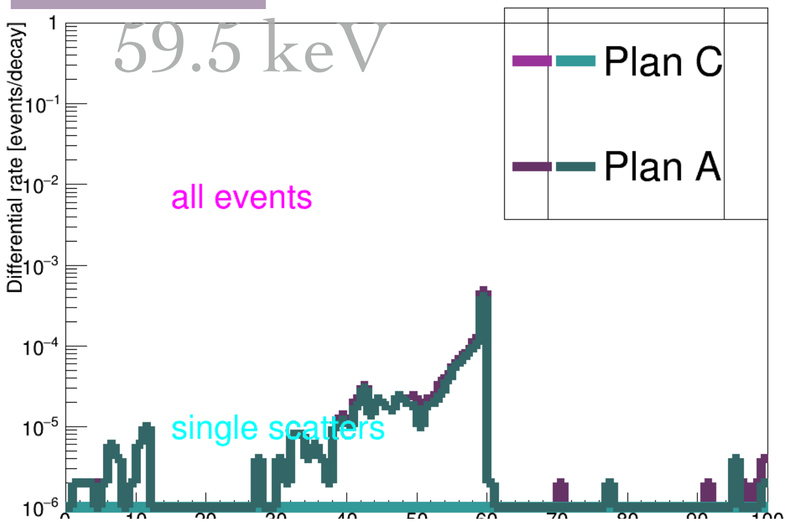
Plots photons

Sans resolution

1e6 evt

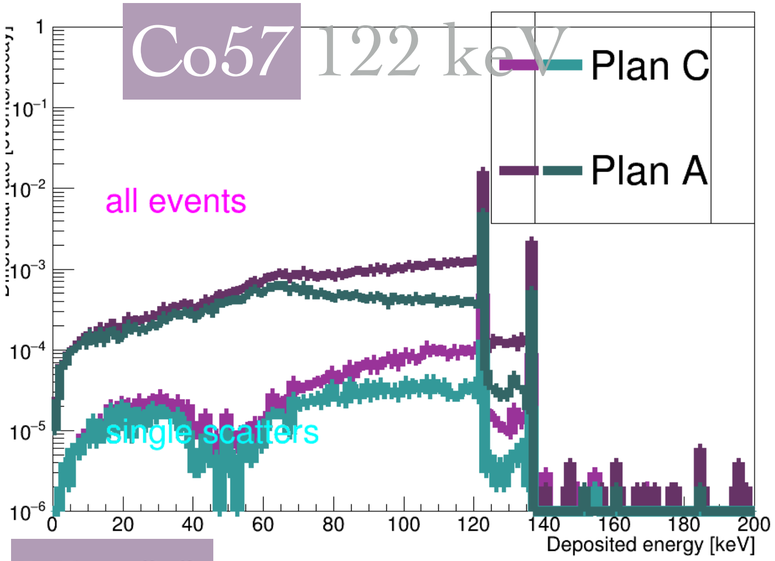
Am 241

59.5 keV



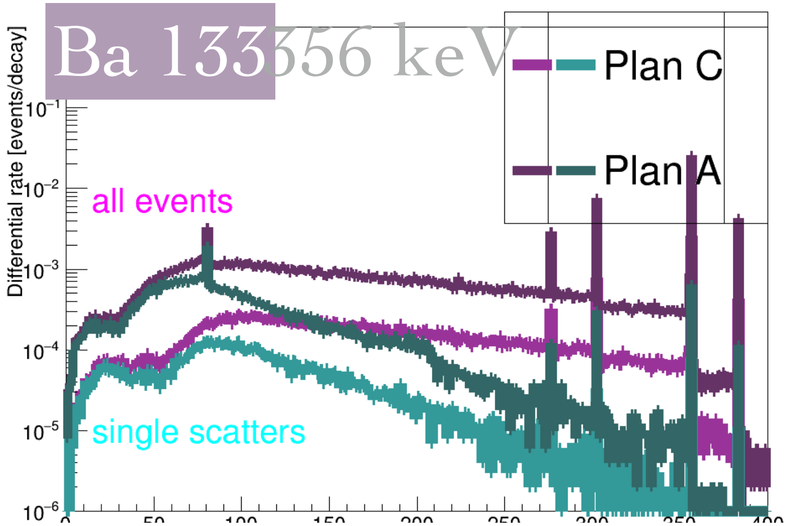
Co57

122 keV



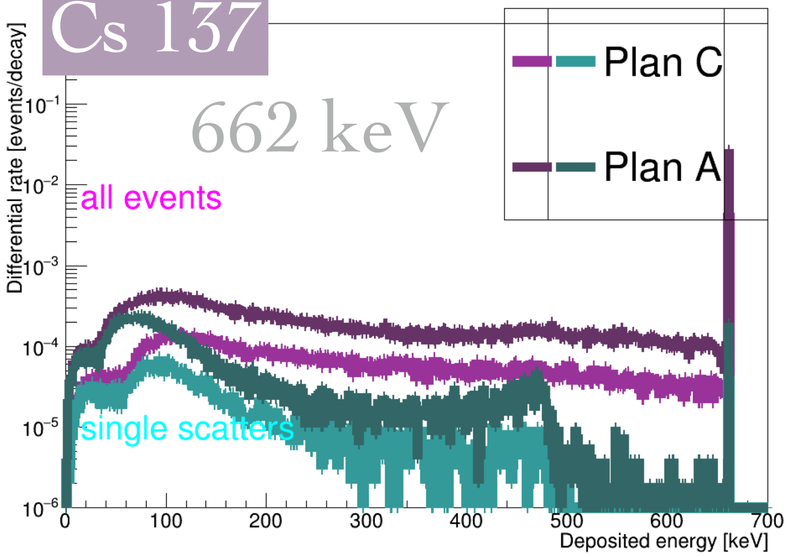
Ba 133

356 keV



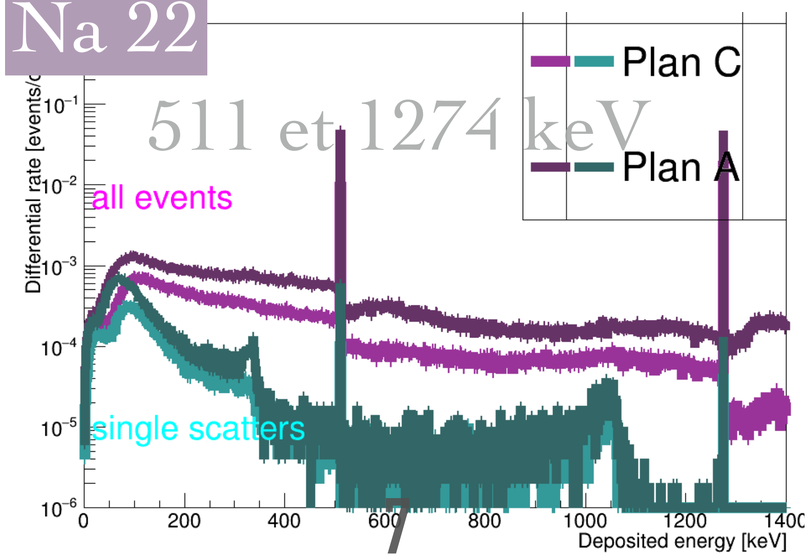
Cs 137

662 keV



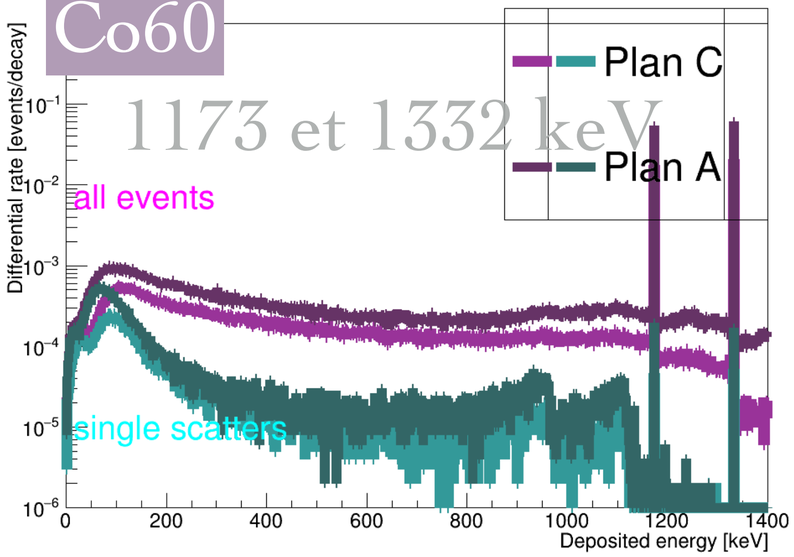
Na 22

511 et 1274 keV



Co60

1173 et 1332 keV



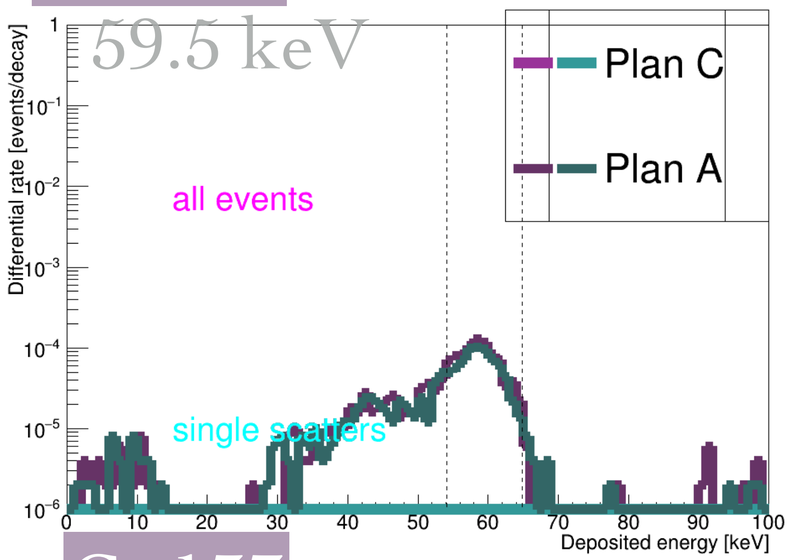
Plots photons

Avec resolution

1e6 evt

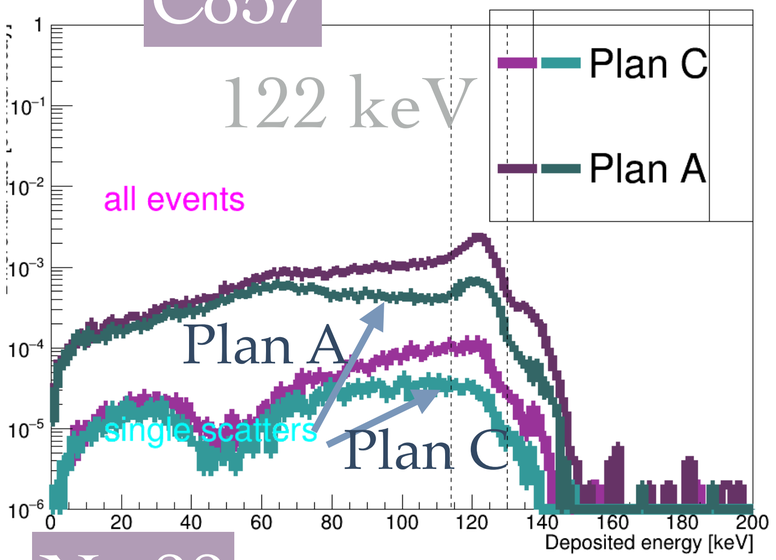
Am 241

59.5 keV



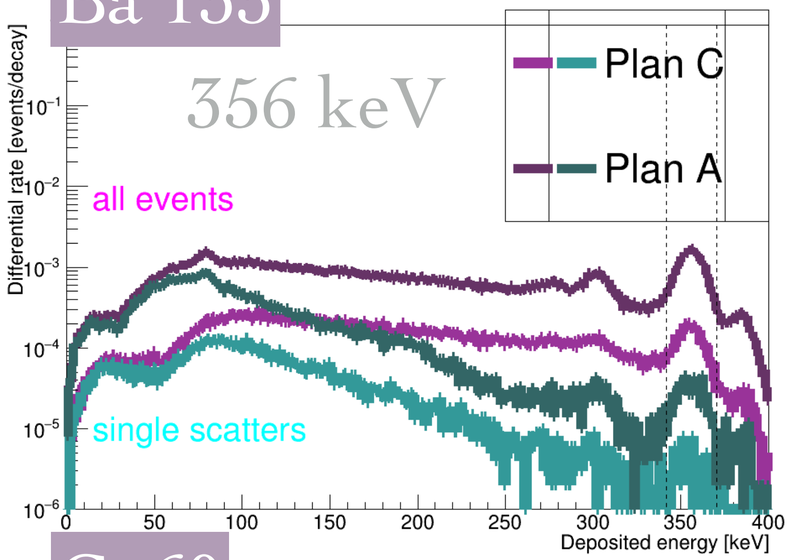
Co57

122 keV



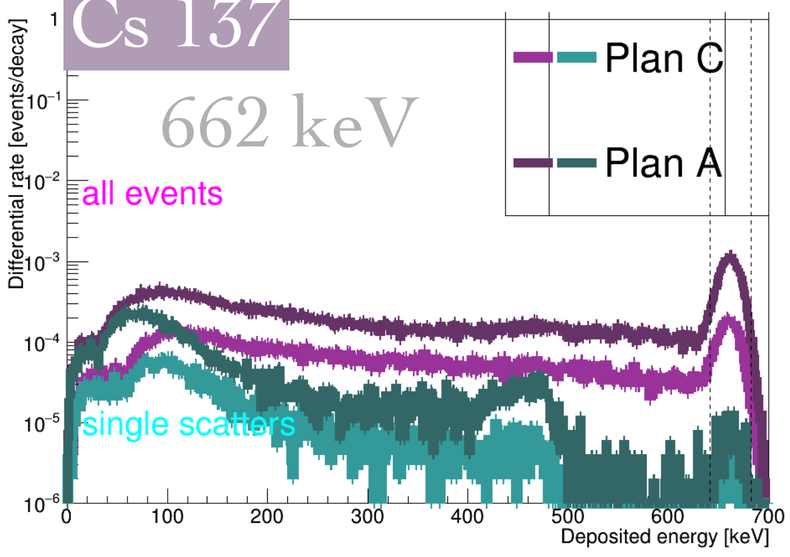
Ba 133

356 keV



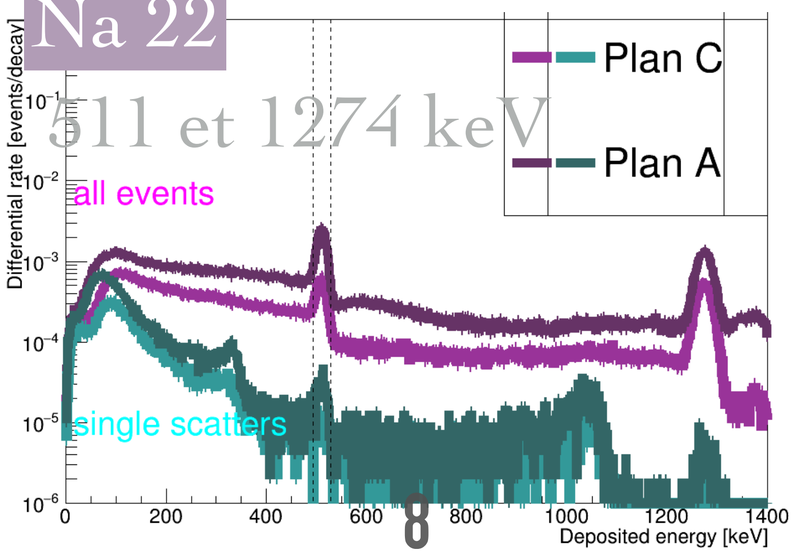
Cs 137

662 keV



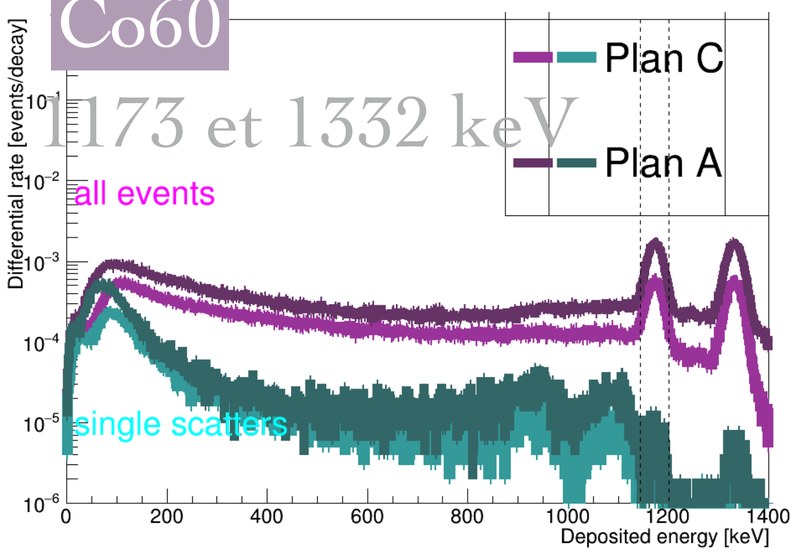
Na 22

511 et 1274 keV



Co60

1173 et 1332 keV

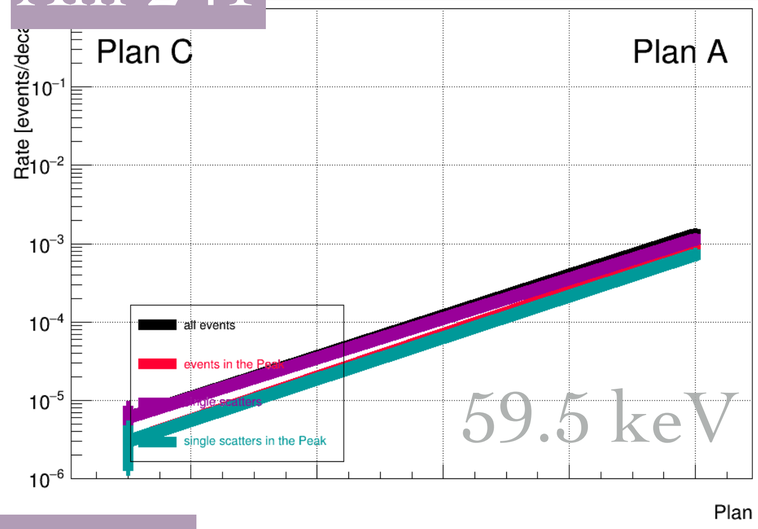


Côté de la TPC

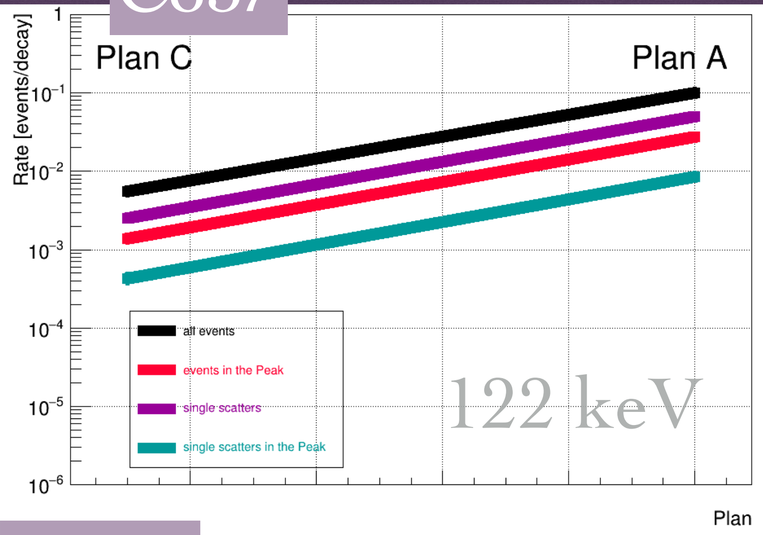
Plan A vs Plan C photons

Ajouter le rapport PA / PC pour SS Peak
Comparer mes résultats avec ceux de victor

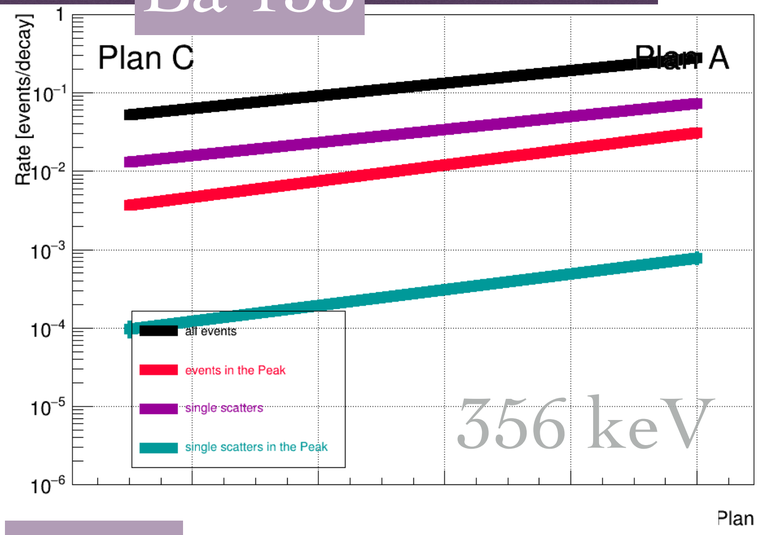
Am 241



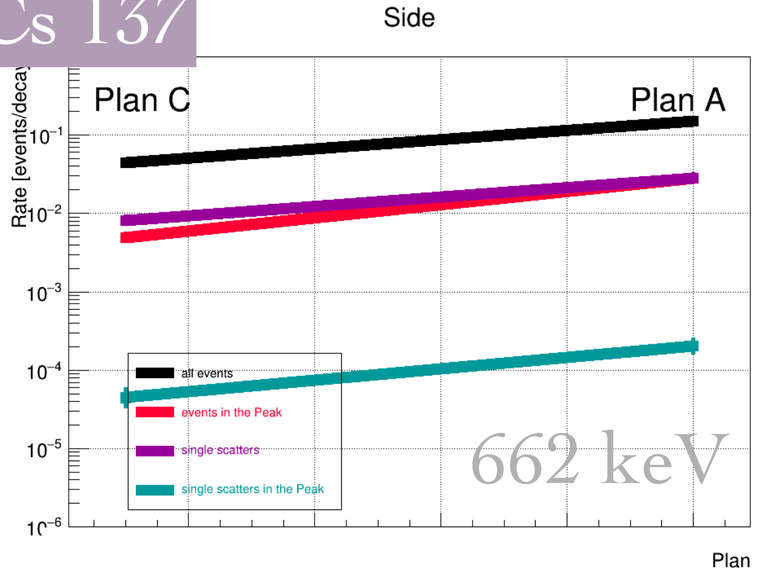
Co57



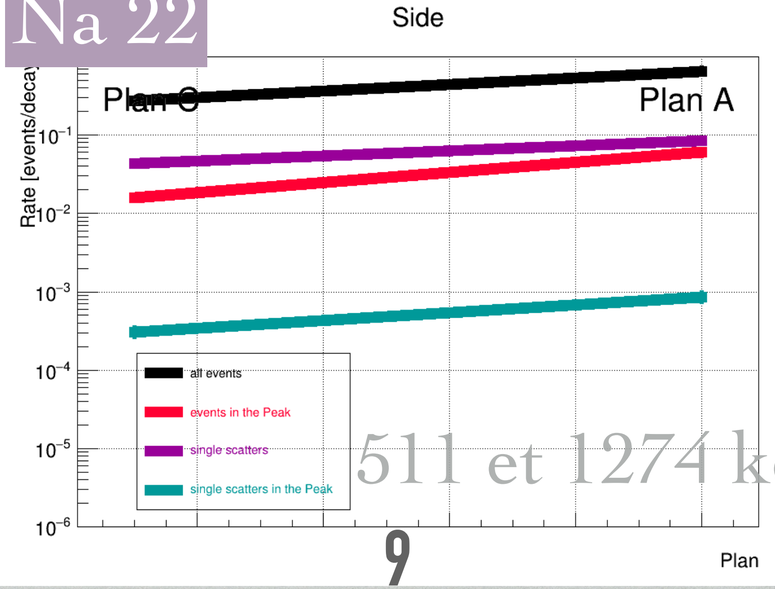
Ba 133



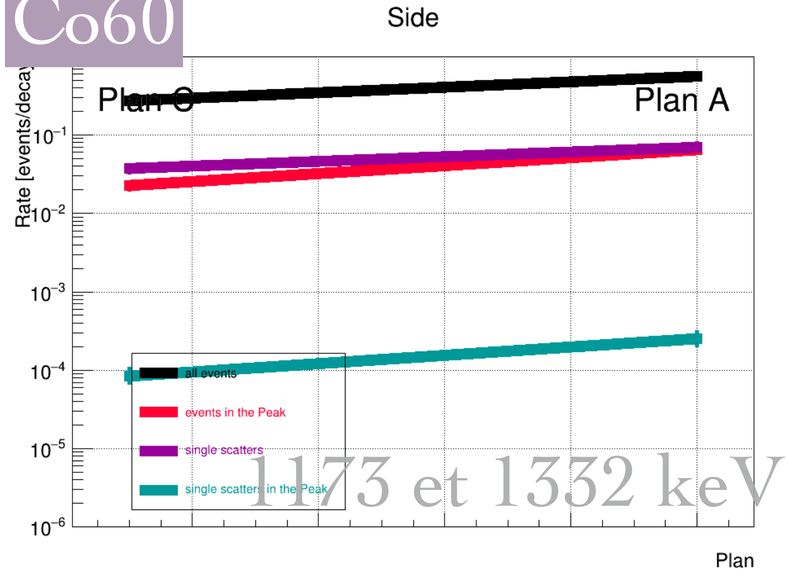
Cs 137



Na 22



Co60



Sous la TPC

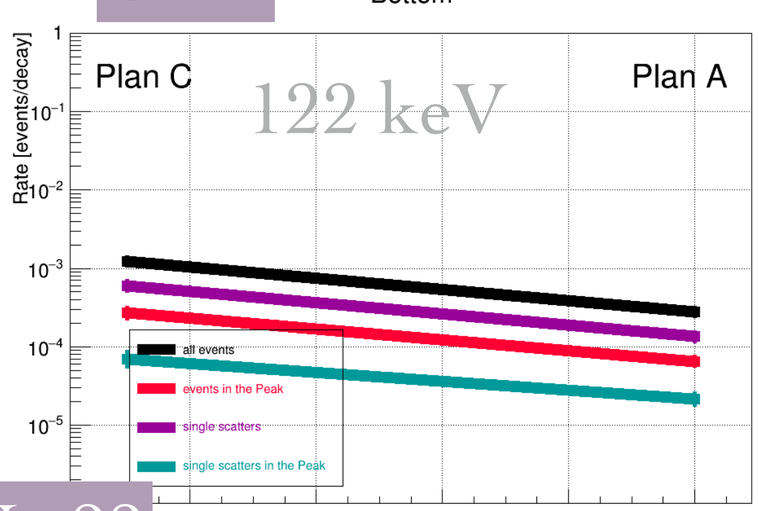
Plan A vs Plan C photons

Ajouter le rapport PA / PC pour SS Peak
Comparer mes résultats avec ceux de victor

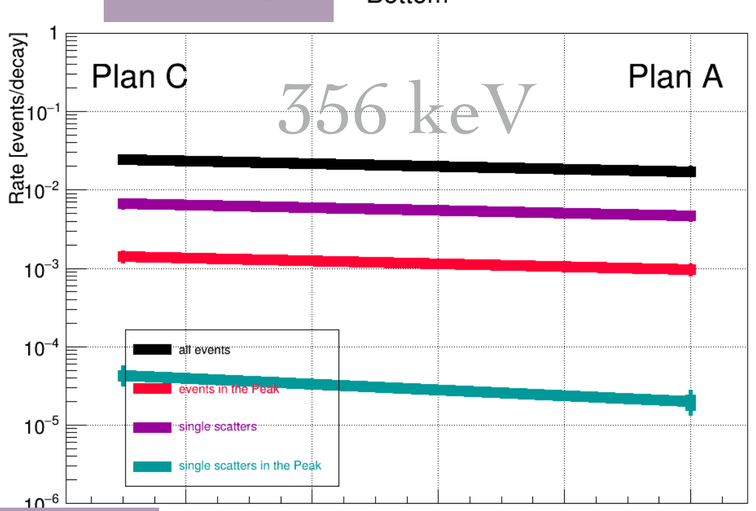
Am 241

59.5 keV

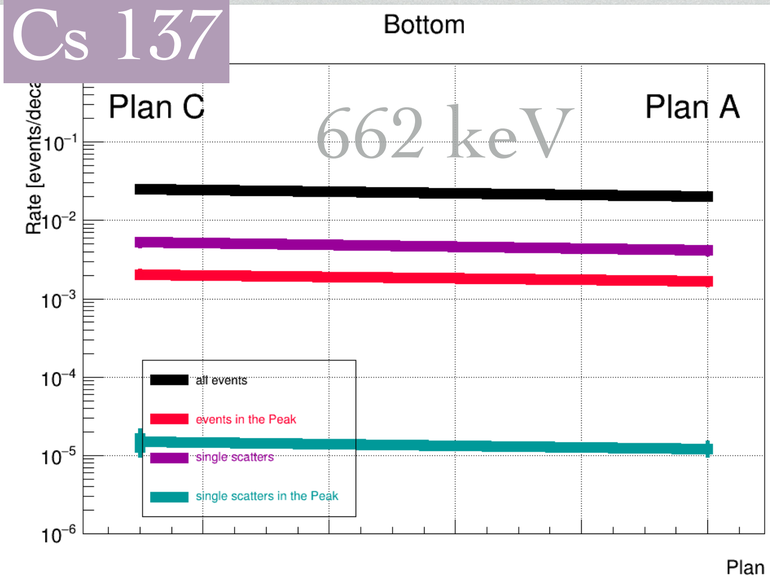
Co57



Ba 133

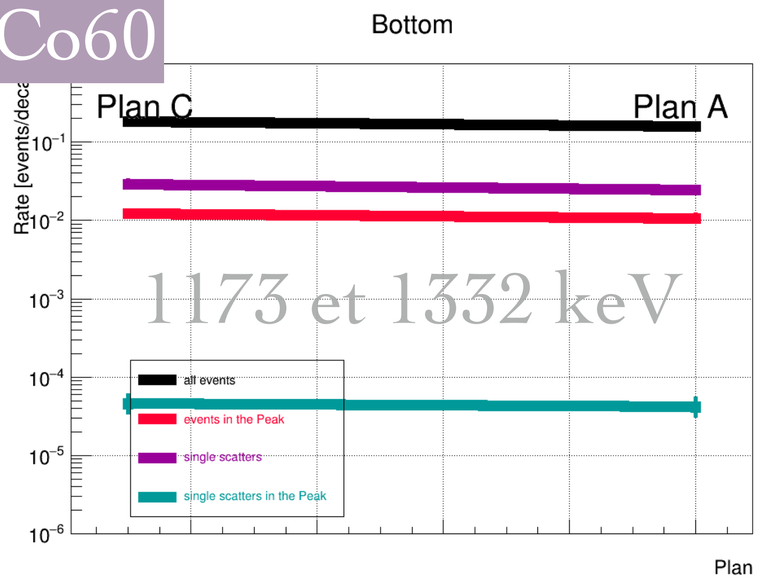


Cs 137



Na 22

Co60

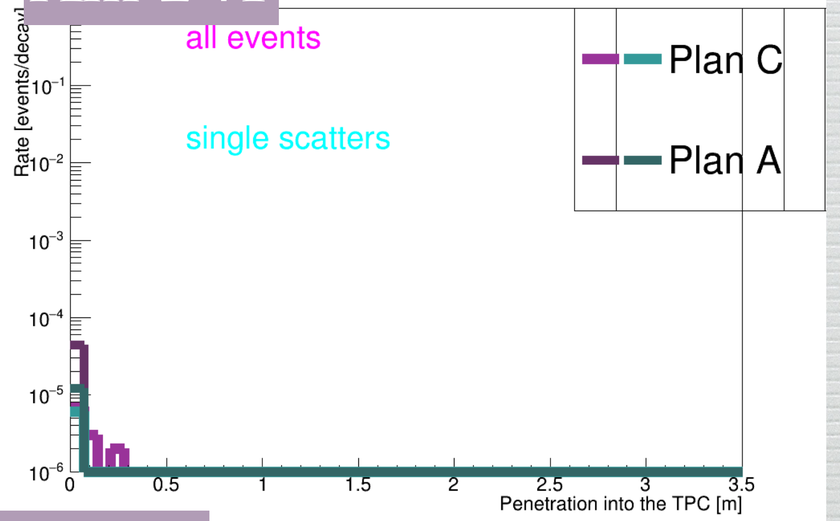


Côté de la TPC

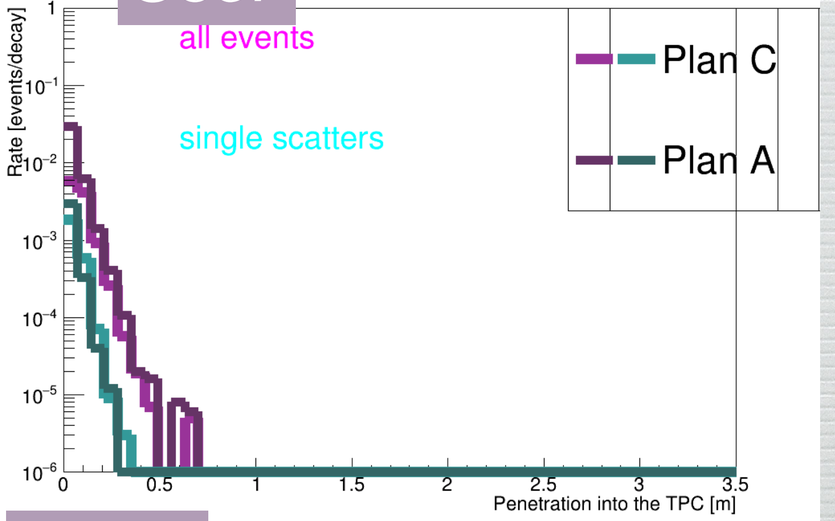
Penetration

Plan A vs Plan C : photons

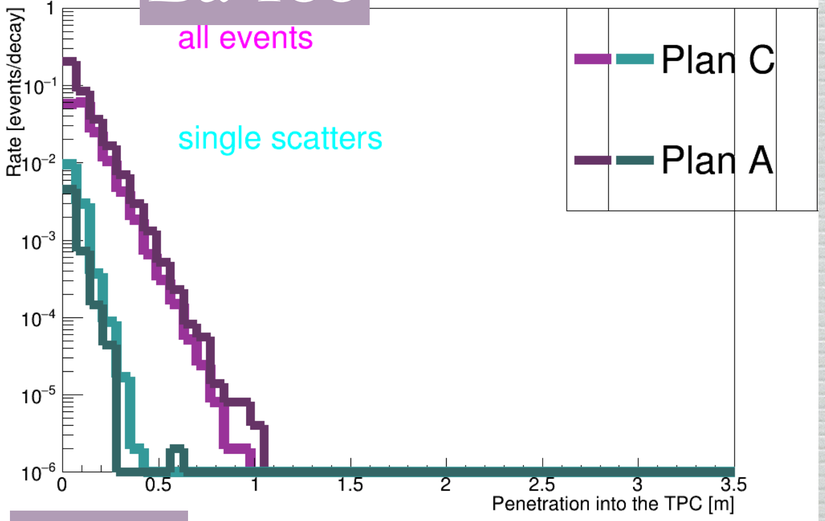
Am 241



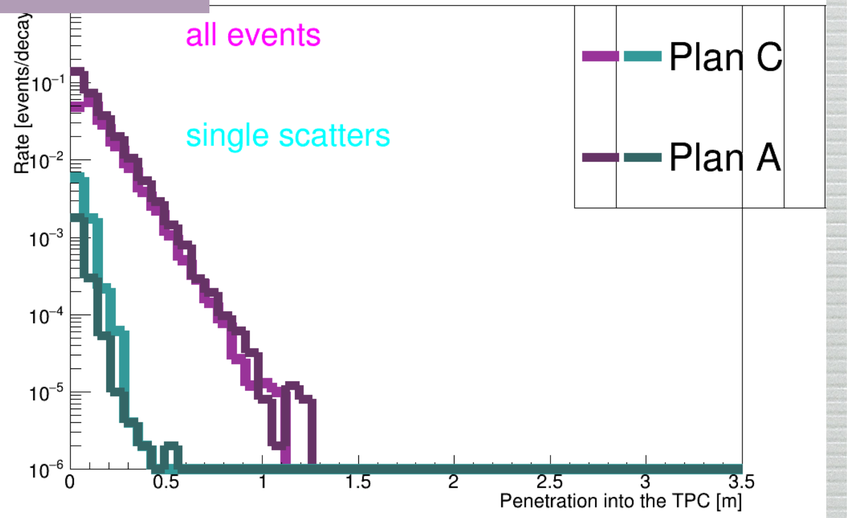
Co57



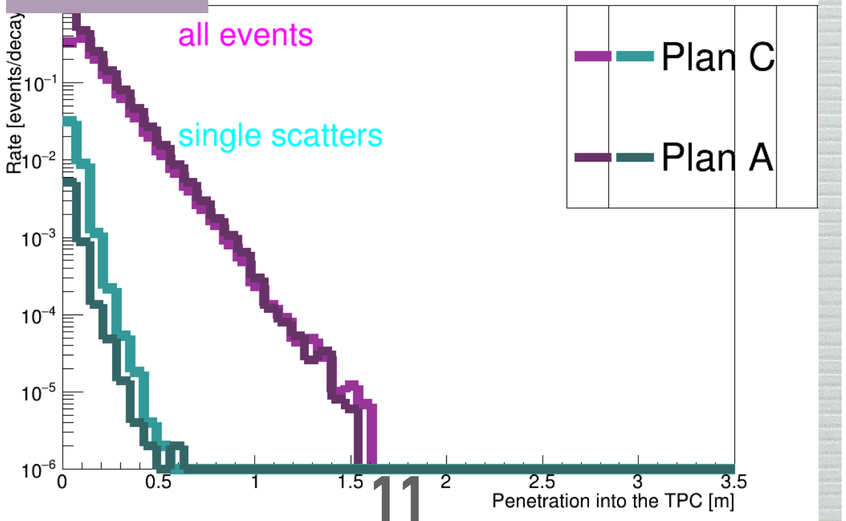
Ba 133



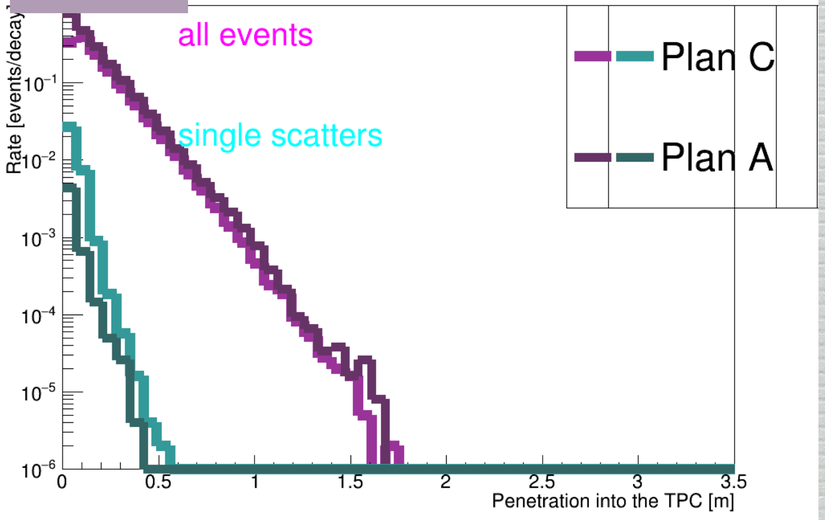
Cs 137



Na 22



Co60

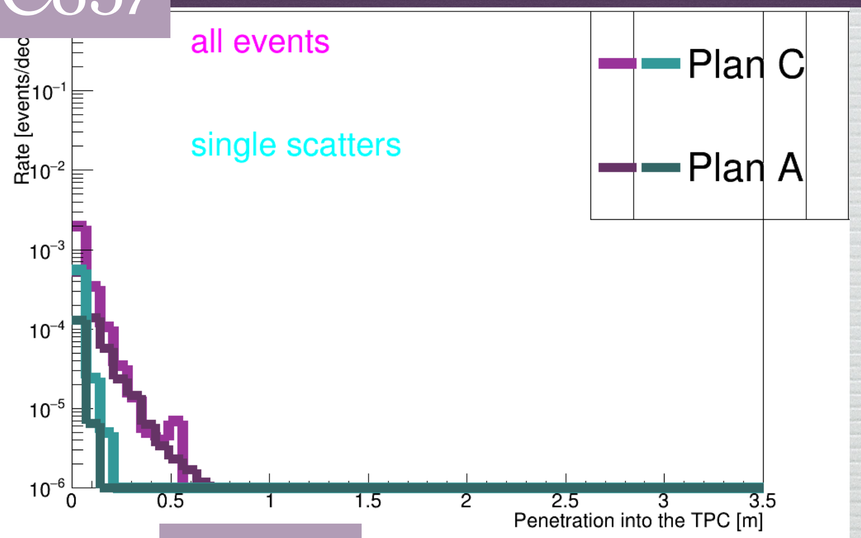


Sous la TPC

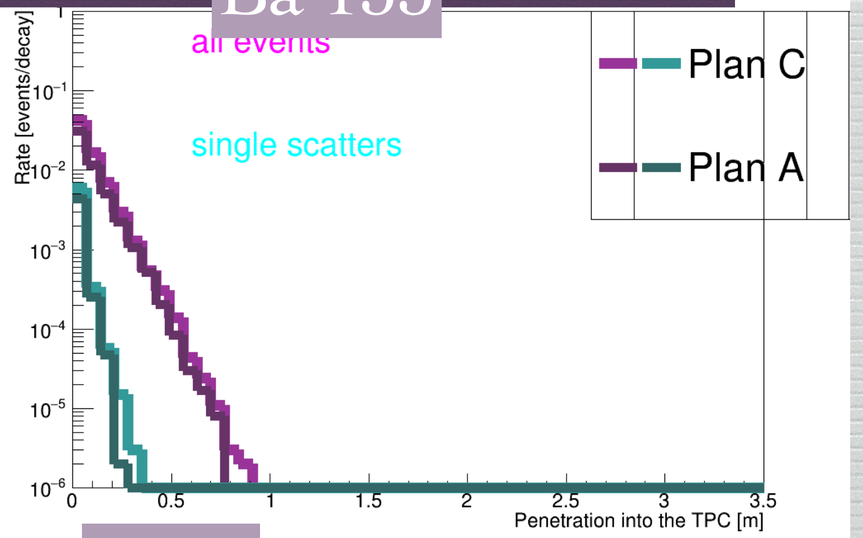
Plan A vs Plan C : photons

Am 241

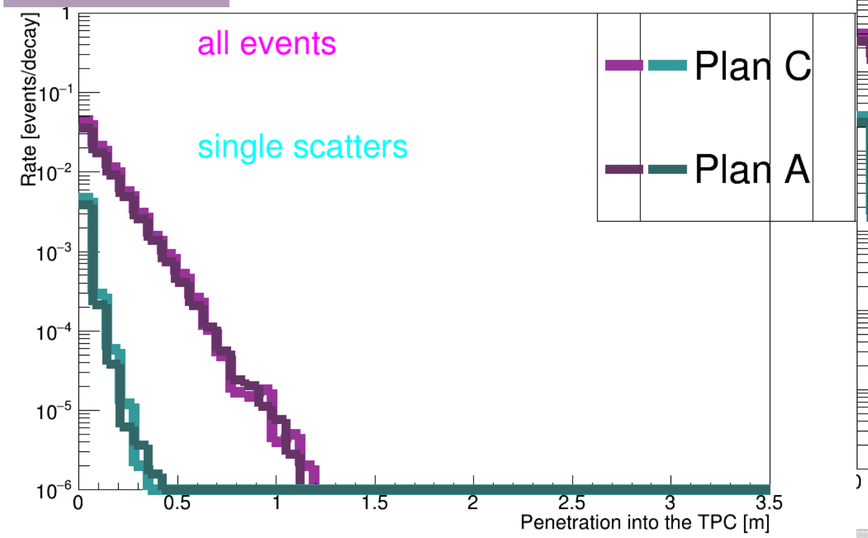
Co57



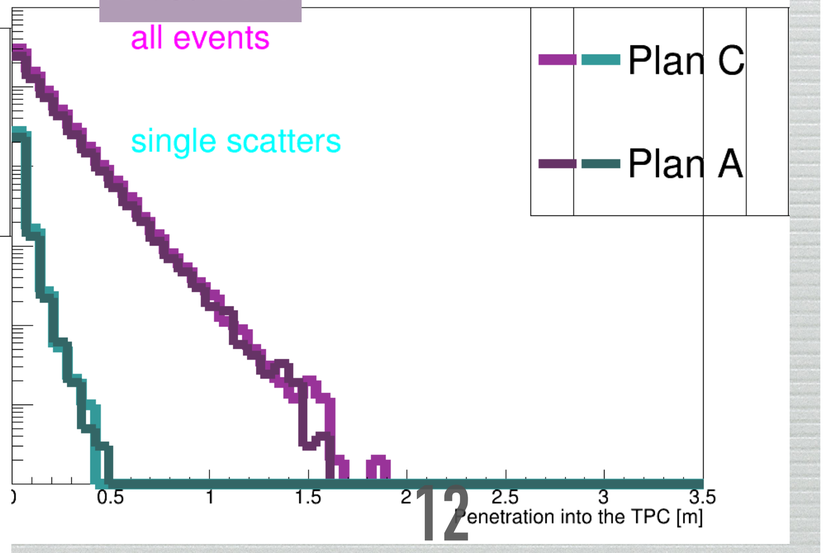
Ba 133



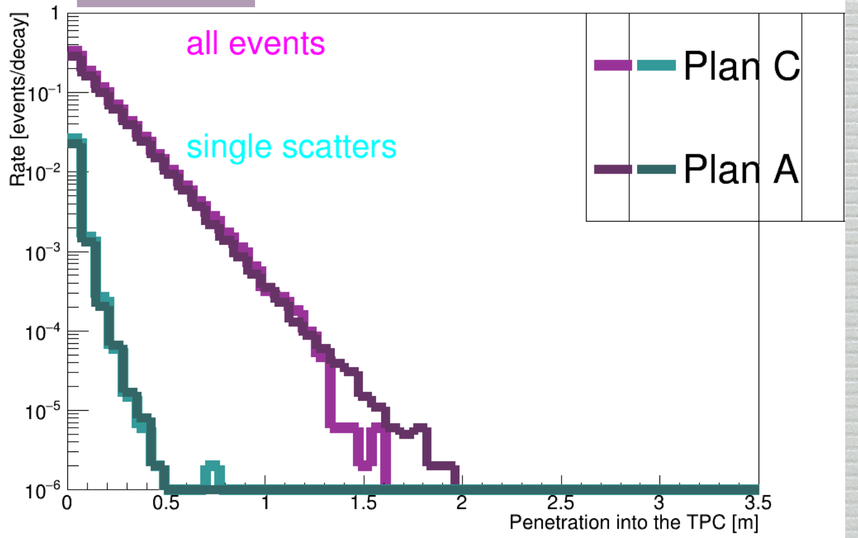
Cs 137



Na 22



Co60



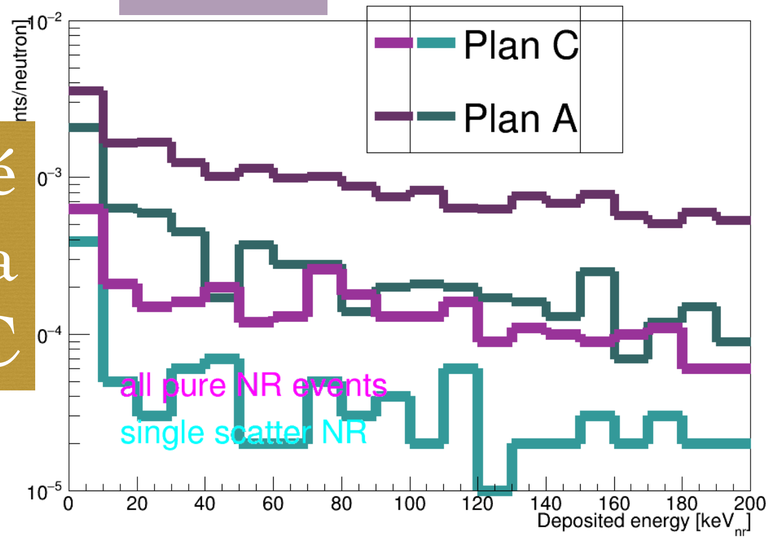
Plan A vs Plan C : neutrons

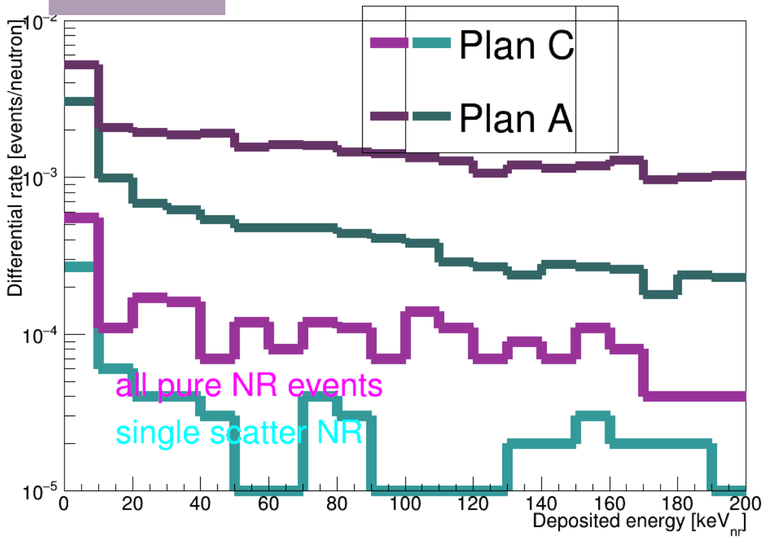
1e5 evt

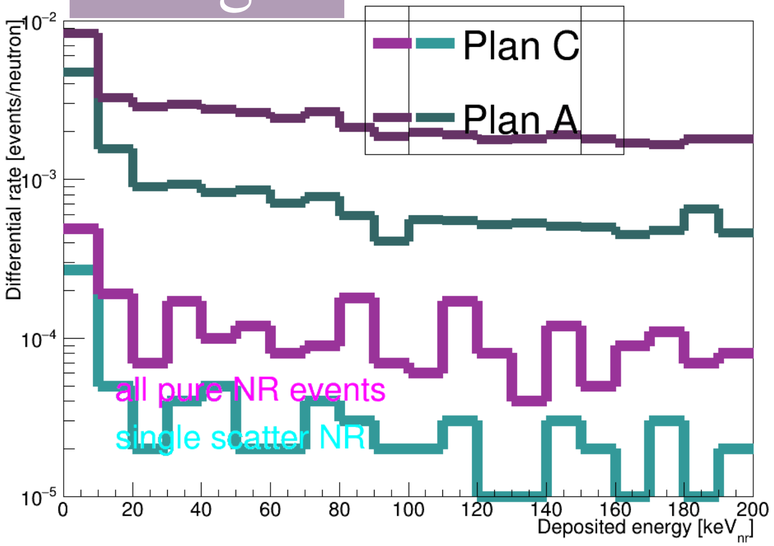
AmBe | AmC | DD gun

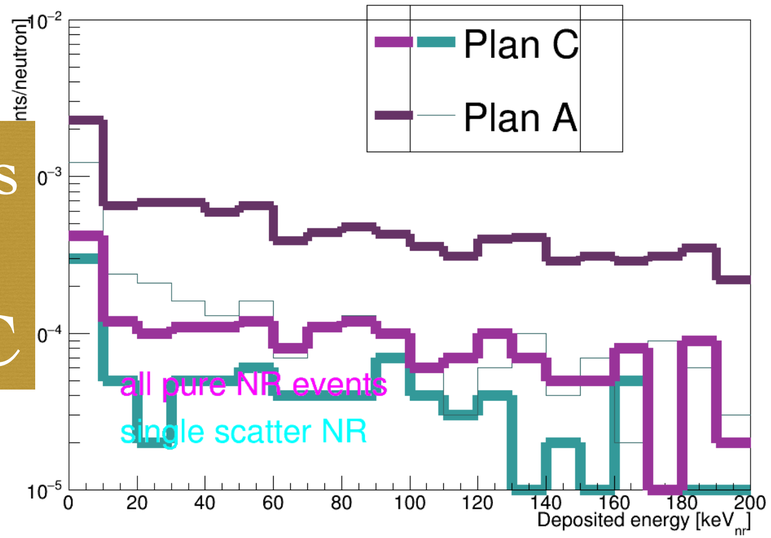
Côté de la TPC

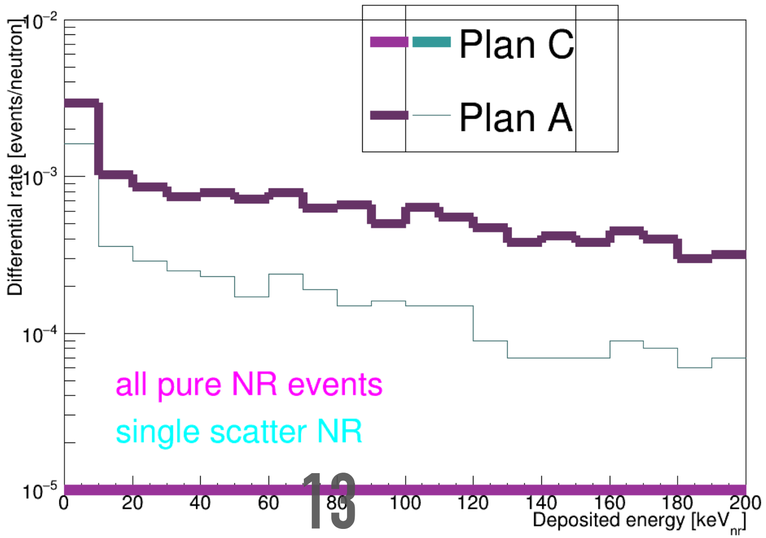
Sous la TPC

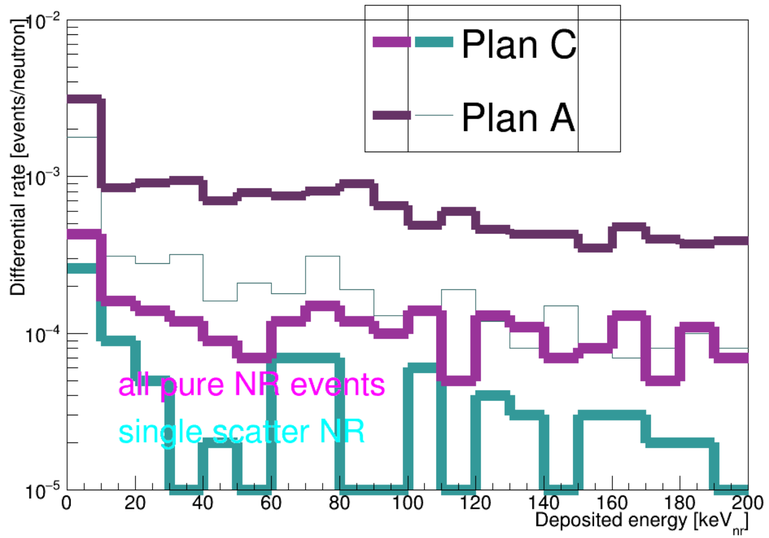












Plan C vs Plan A : neutrons

Remettre plan C et plan A

1e5 evt

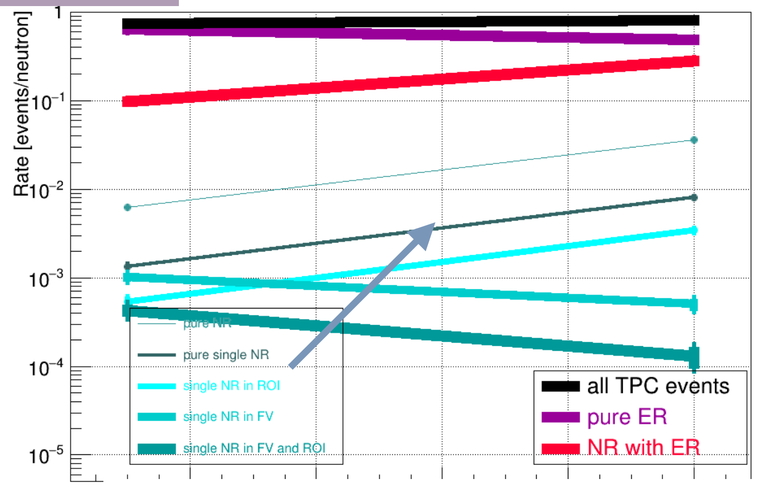
AmBe

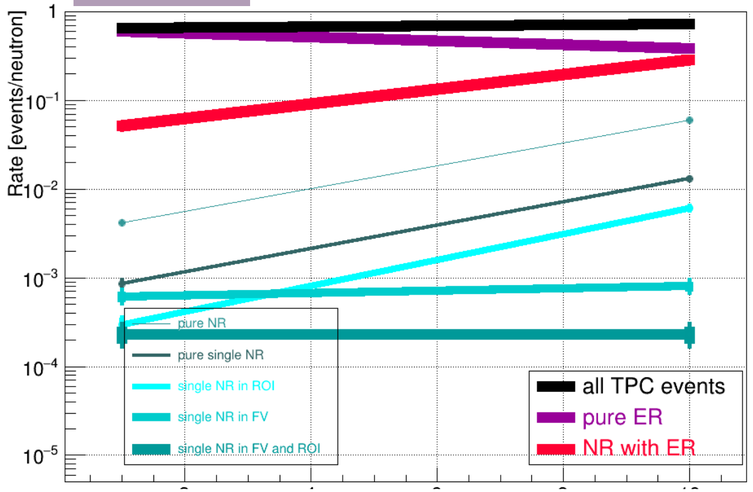
AmC

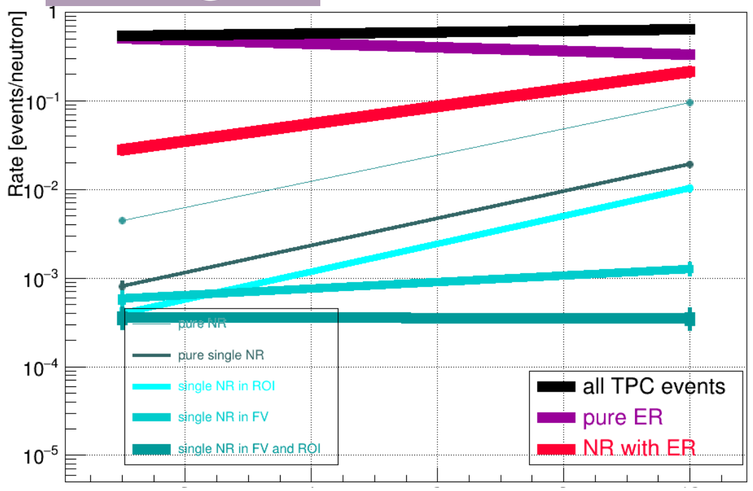
DD gun

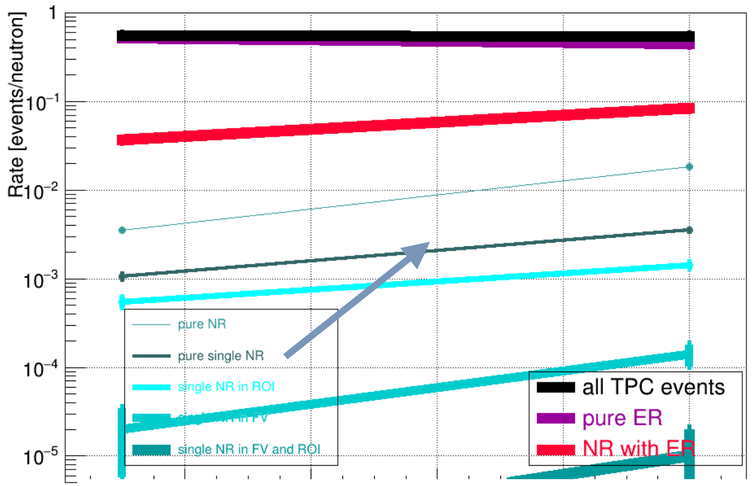
Côté de la TPC

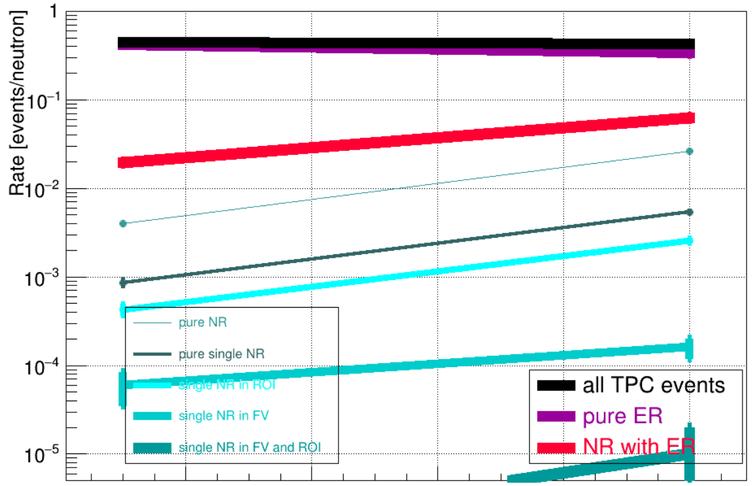
Sous la TPC











Plan A vs Plan C : neutrons

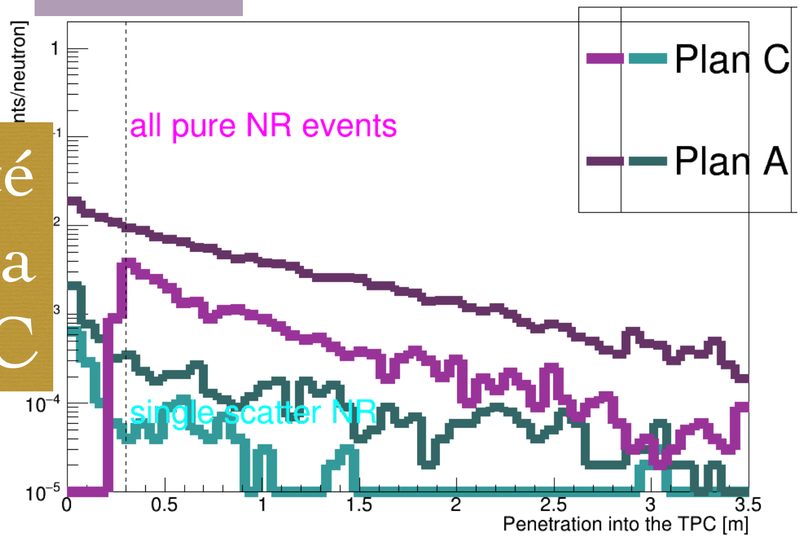
AmBe

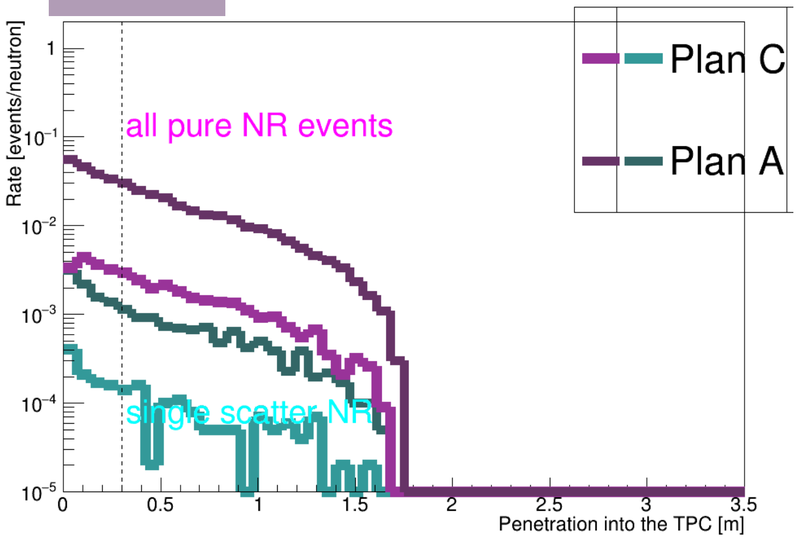
AmC

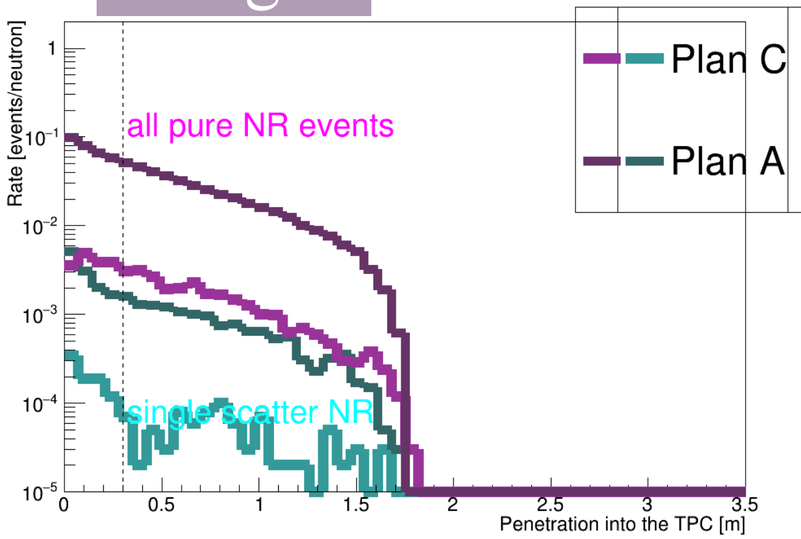
DD gun

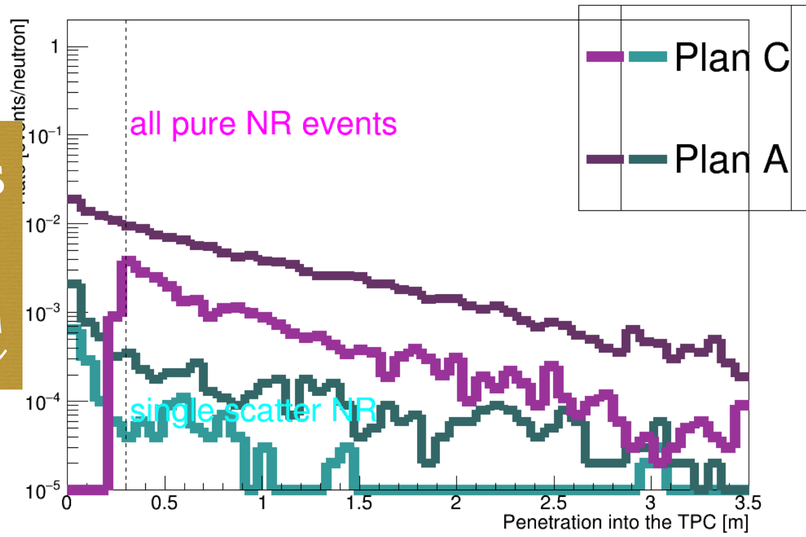
Côté de la TPC

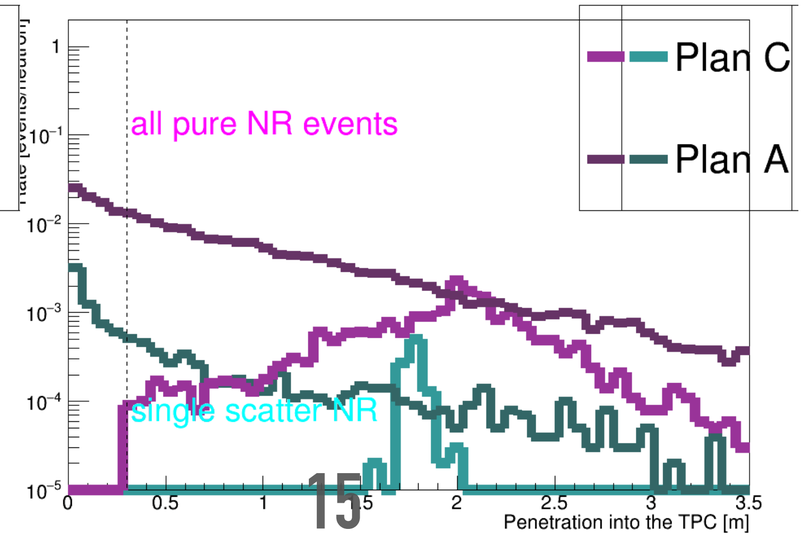
Sous la TPC

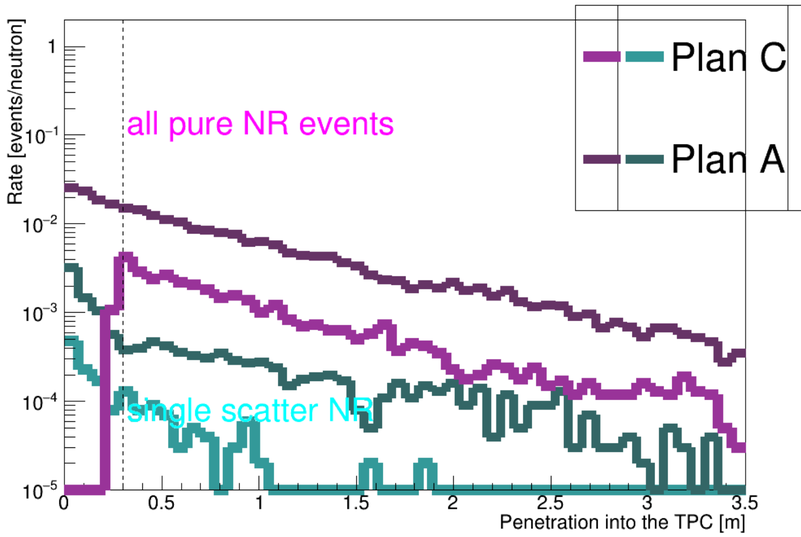












Plan A vs Plan C : à venir

- Faire les motifs dans le code suite à la détermination de la géométrie (Y_NR notamment)
- Analyse temporelle Plan C
- Essayer d’ajouter des evt pour les neutrons