

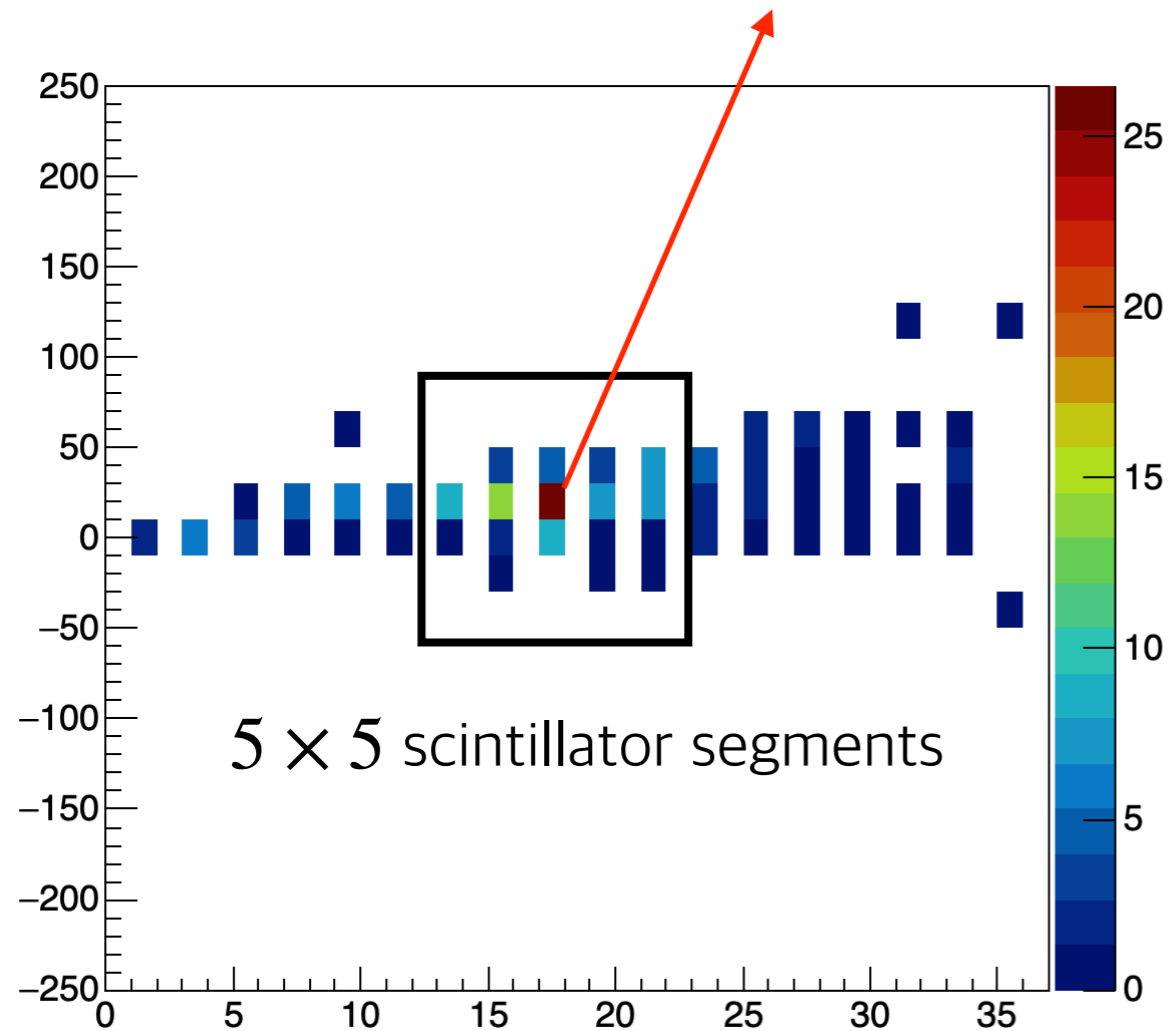
K-Koto Meeting

2020/07/08

YoungJun Kim

Find Maximum Energy

maximum energy scintillator

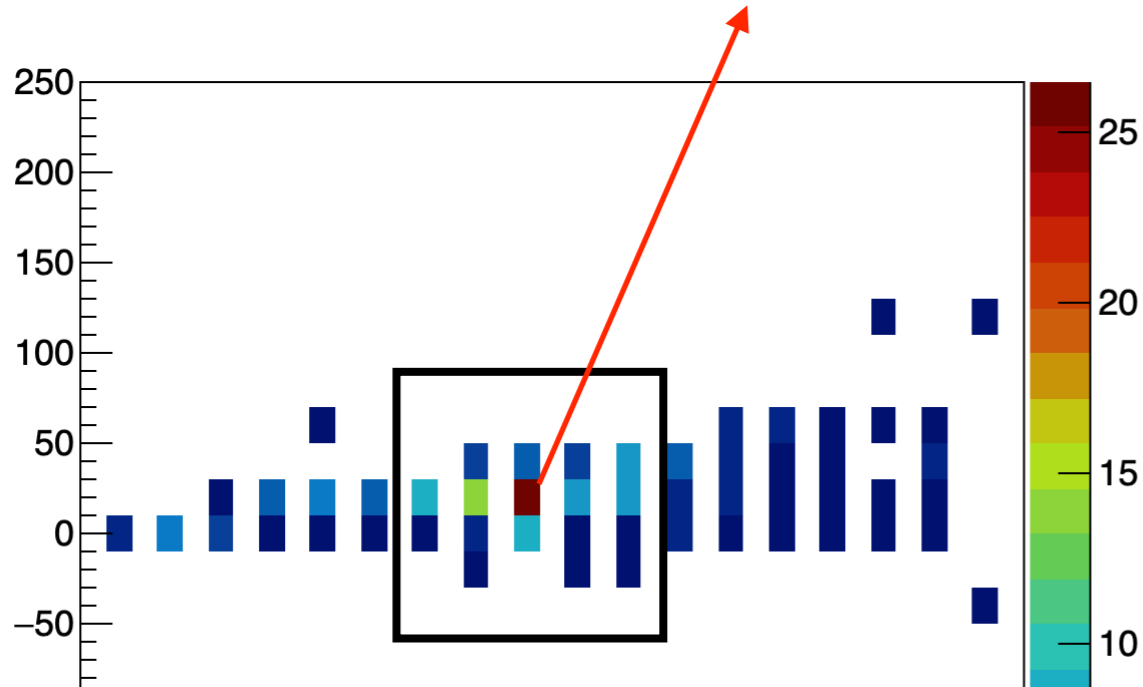


1. Find max. edep scintillator
2. Scan 5 × 5 scintillator segments
3. Make energy weighted mean with **three** energetic hits.

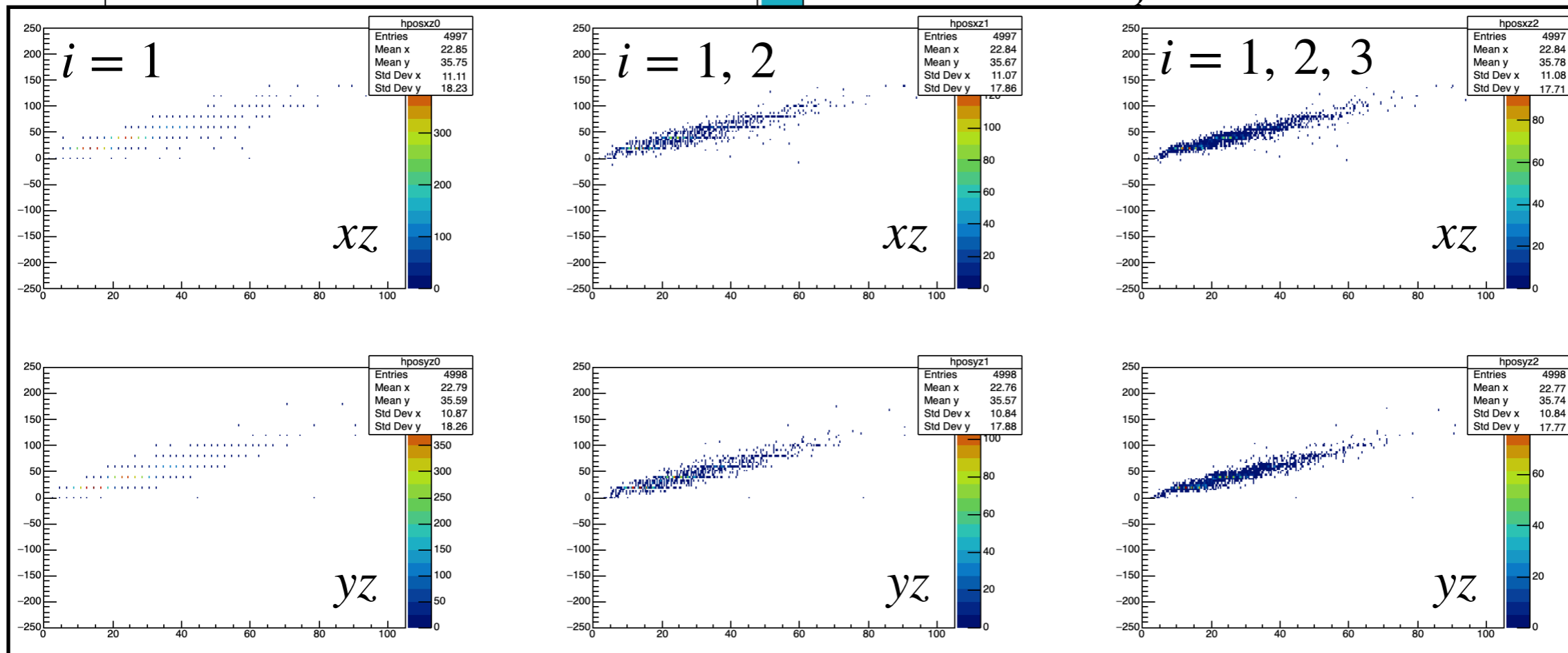
$$x = \frac{\sum_{i=1}^3 x_i \times e_i}{\sum_{i=1}^3 e_i}, z = \frac{\sum_{i=1}^3 z_i \times e_i}{\sum_{i=1}^3 e_i}$$

Find Maximum Energy

maximum energy scintillator

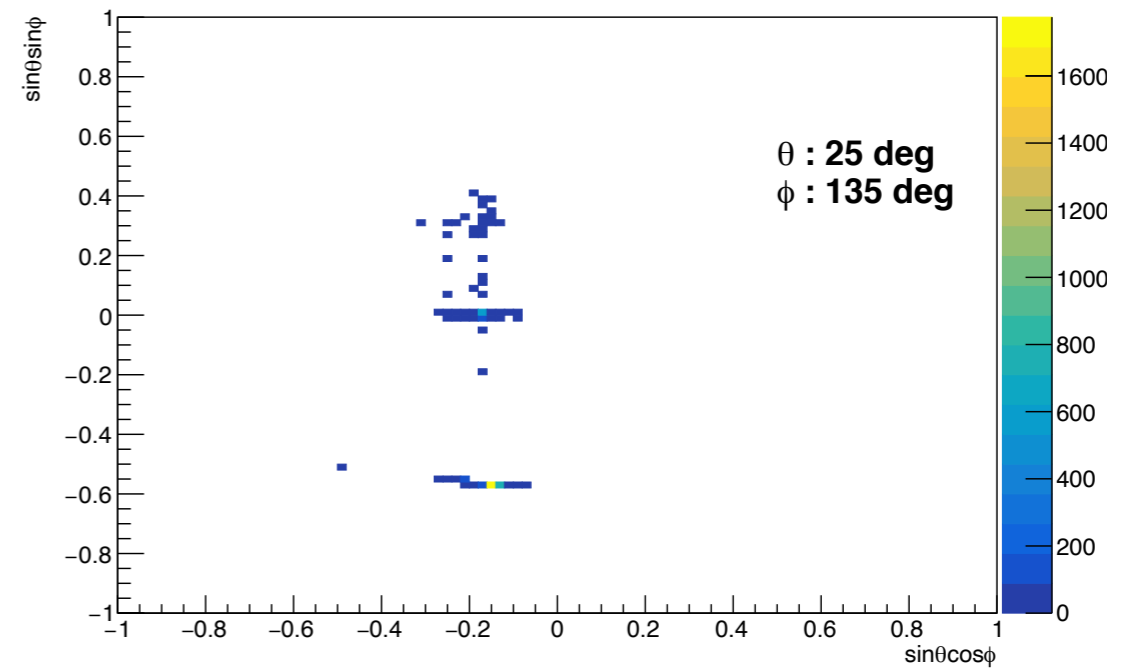
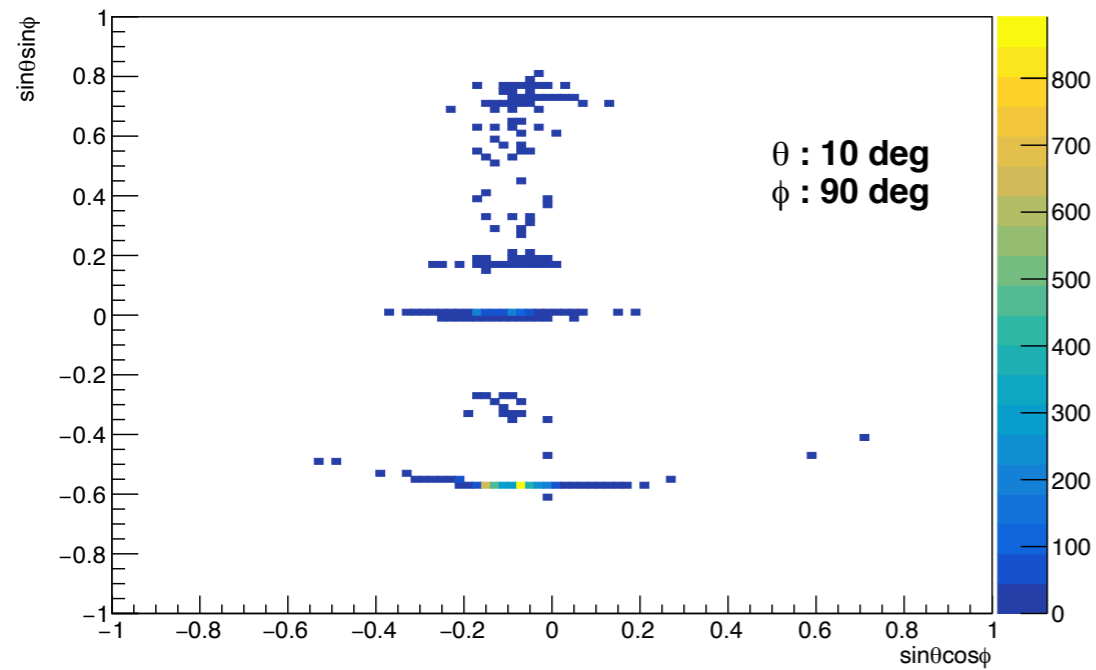
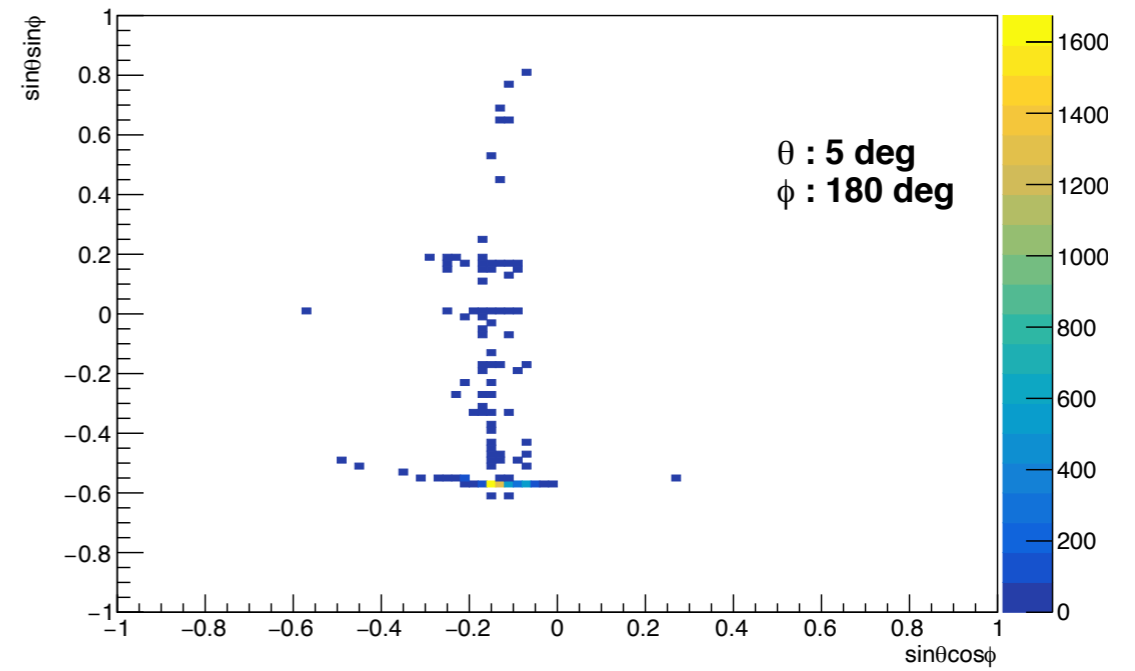
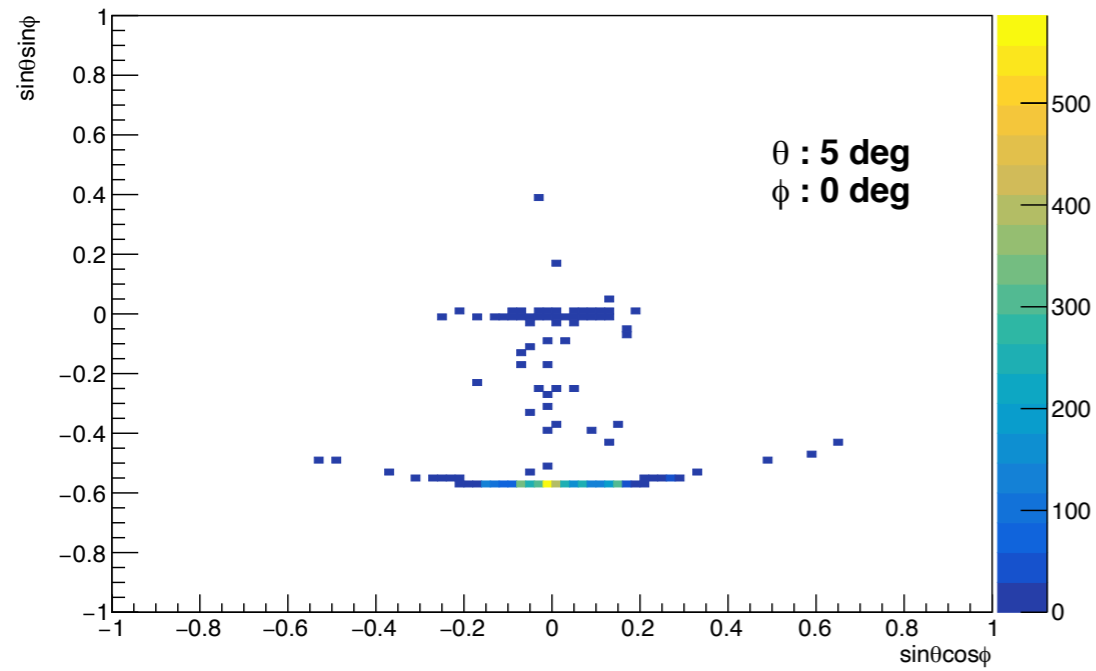


1. Find max. edep scintillator
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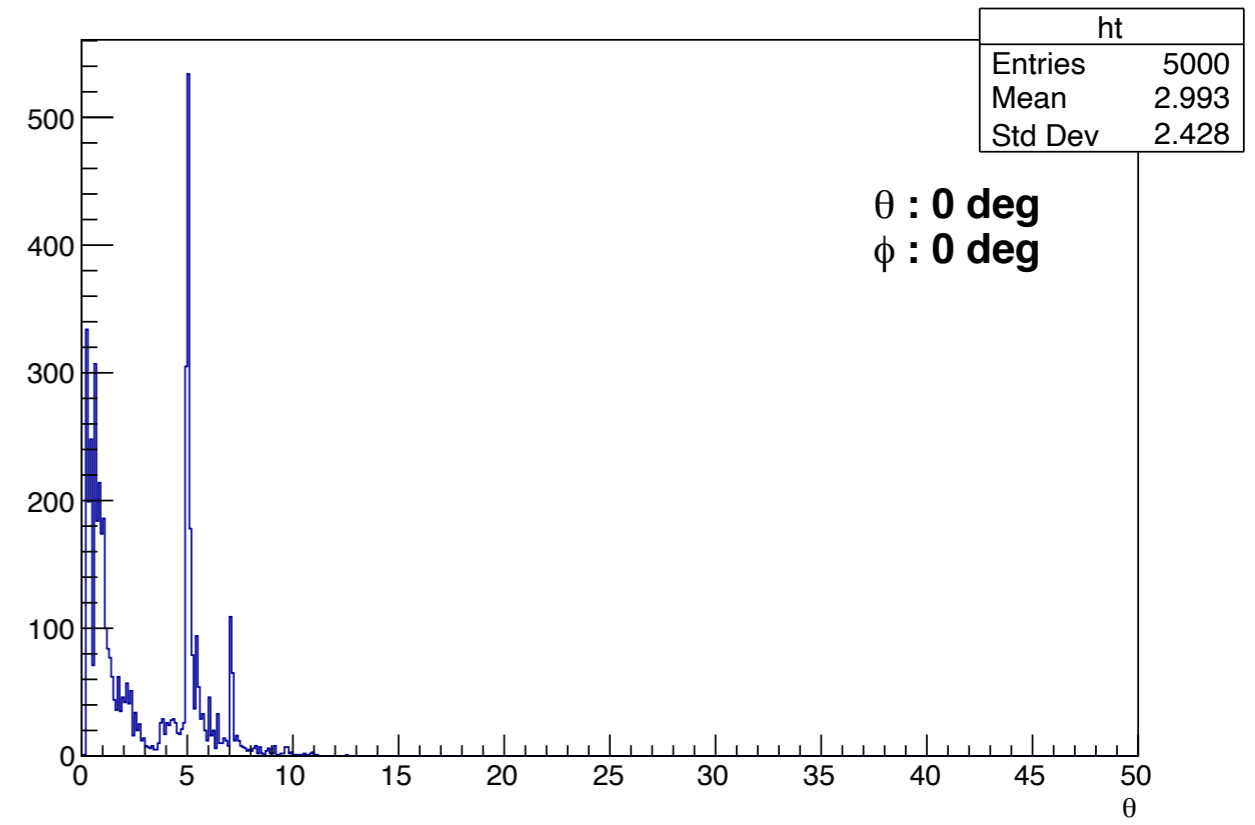
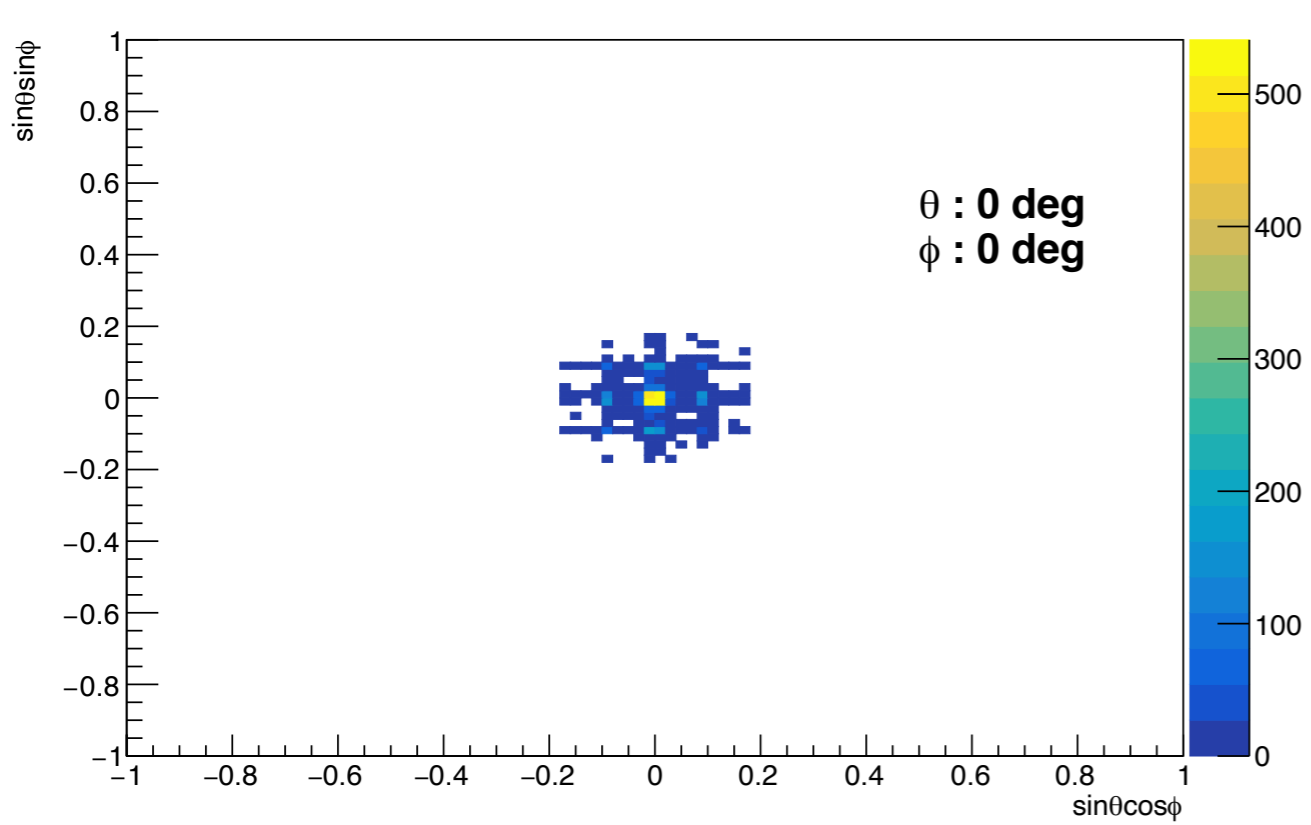
$$\frac{\sum_{i=1}^3 z_i \times e_i}{\sum_{i=1}^3 e_i}$$

Position Fixed (energy weighted x, z)



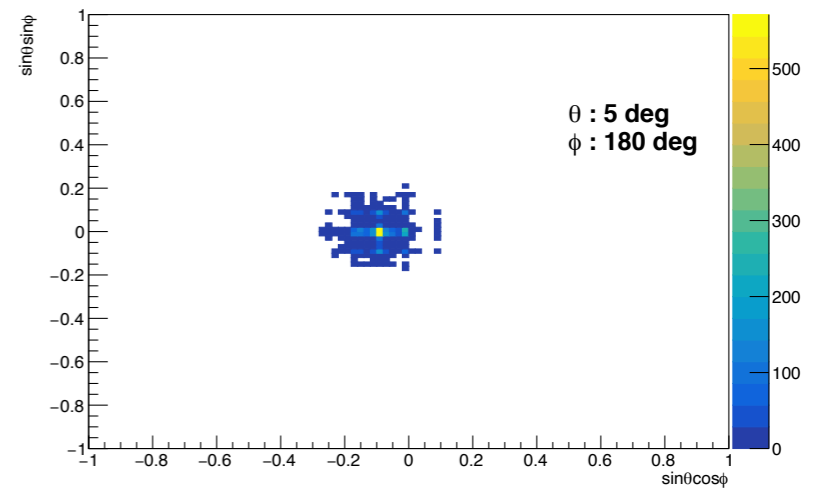
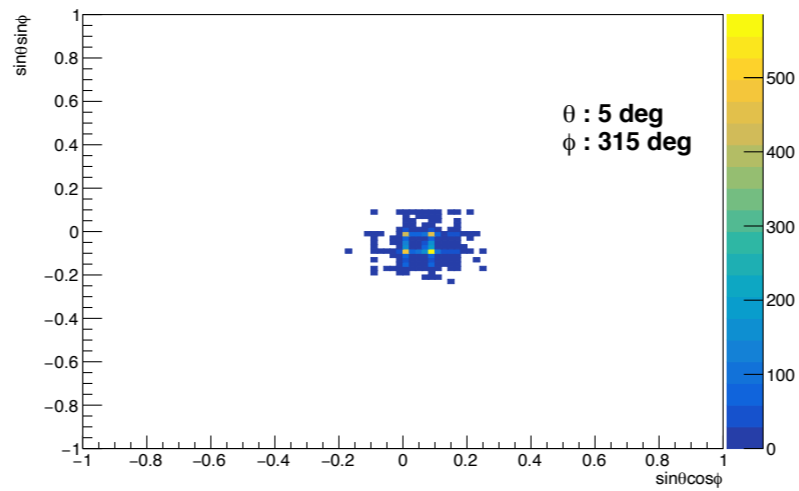
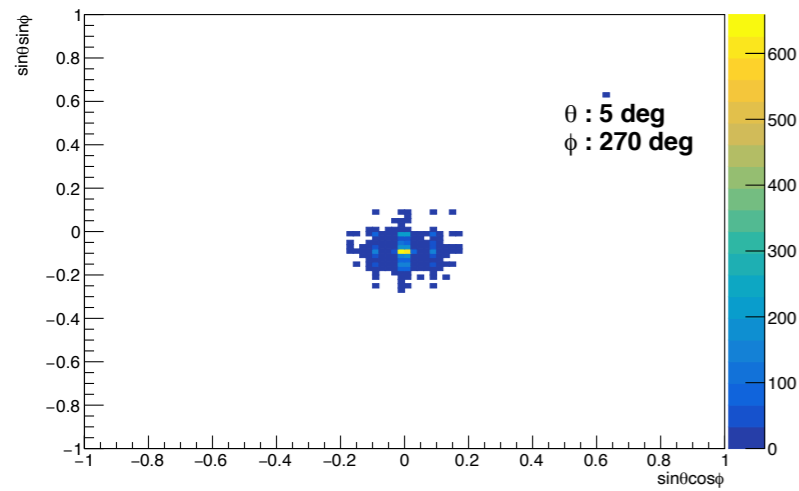
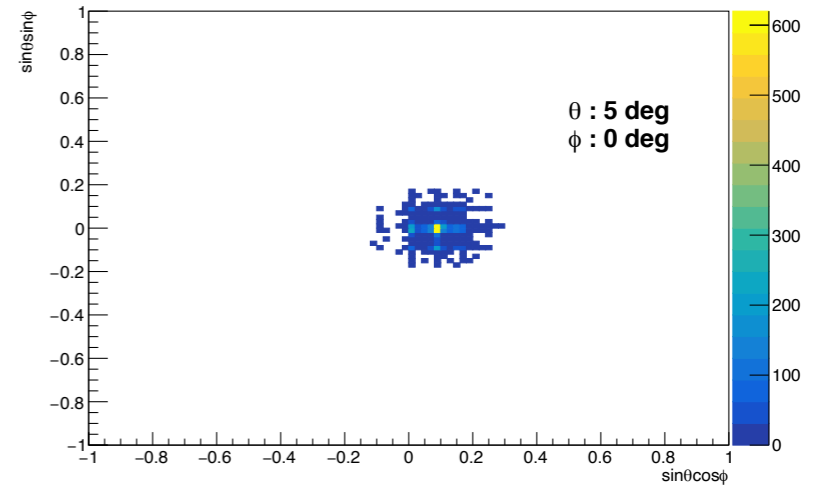
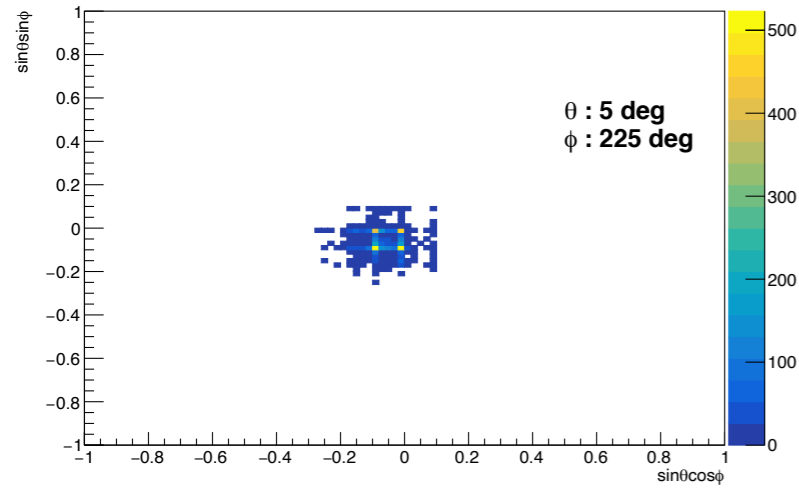
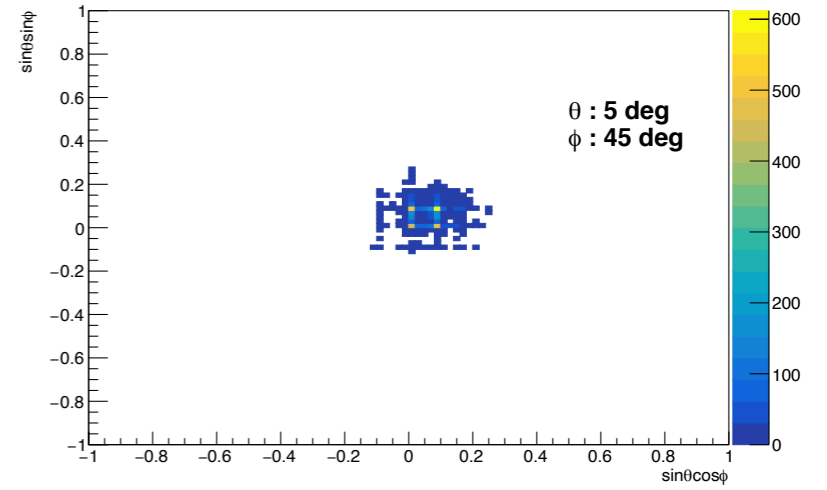
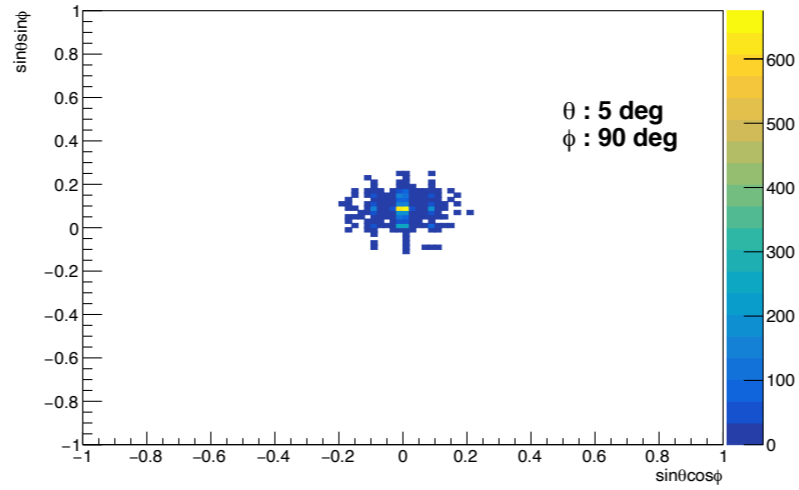
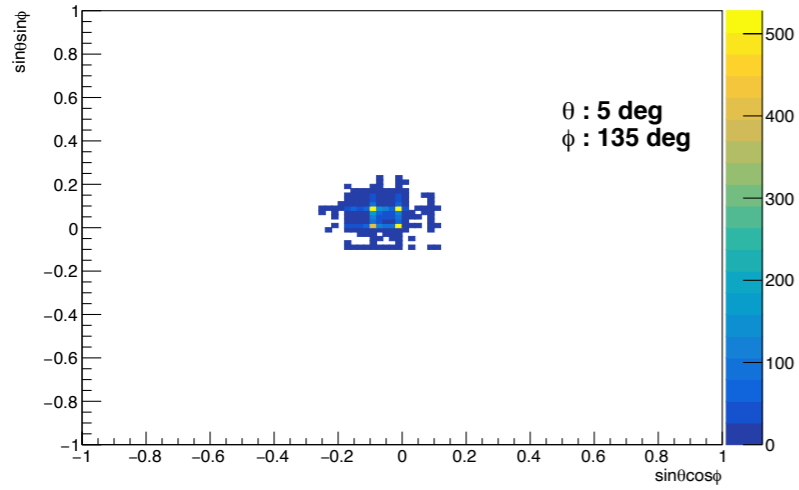
$$\theta = 0^\circ$$

Position Fixed ($x = 0, z = 0$)



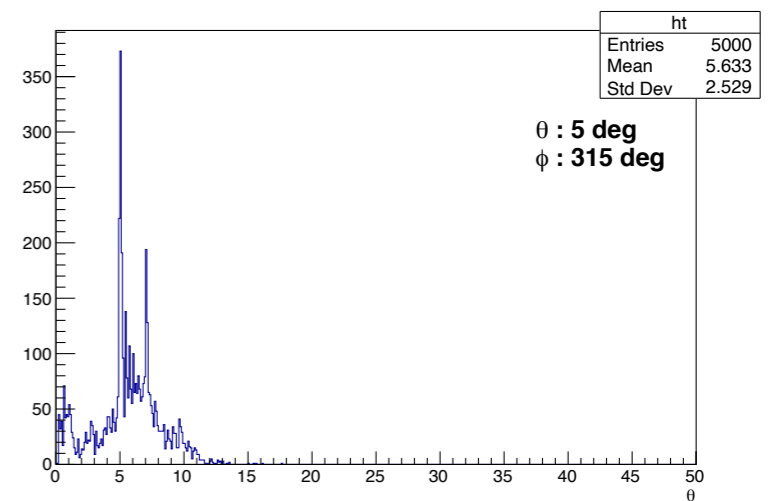
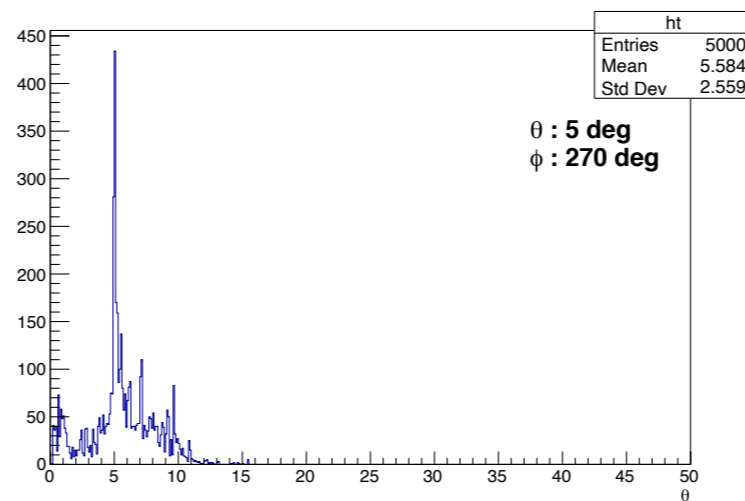
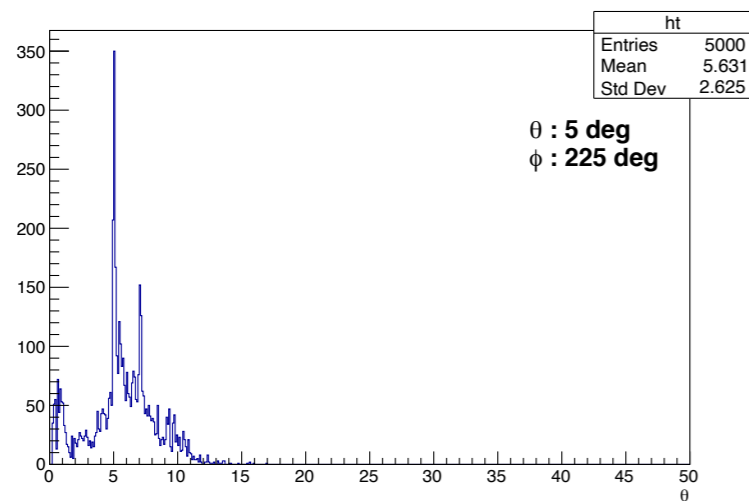
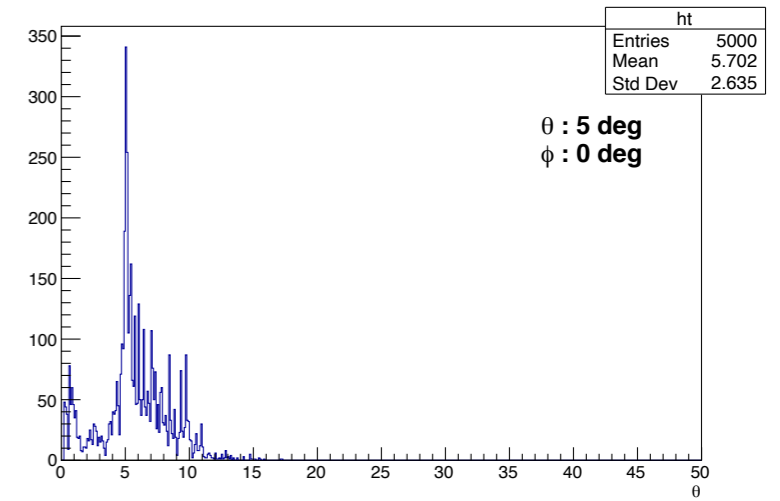
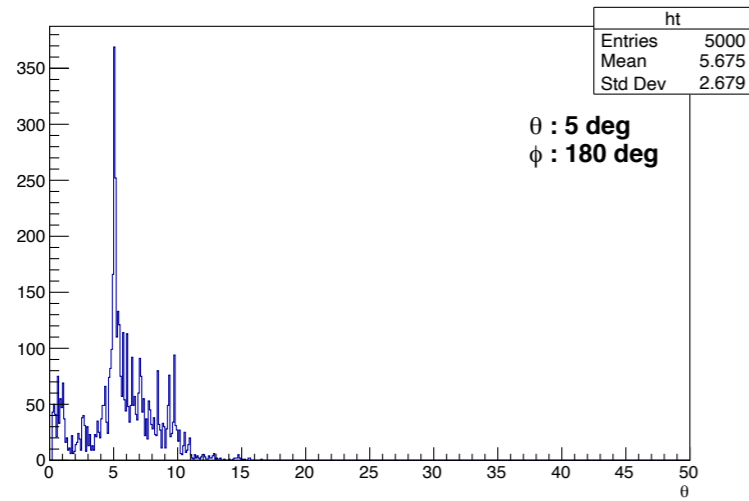
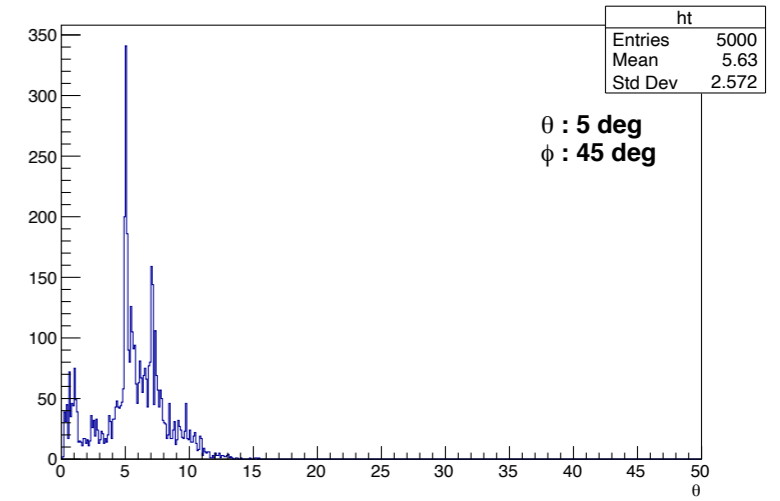
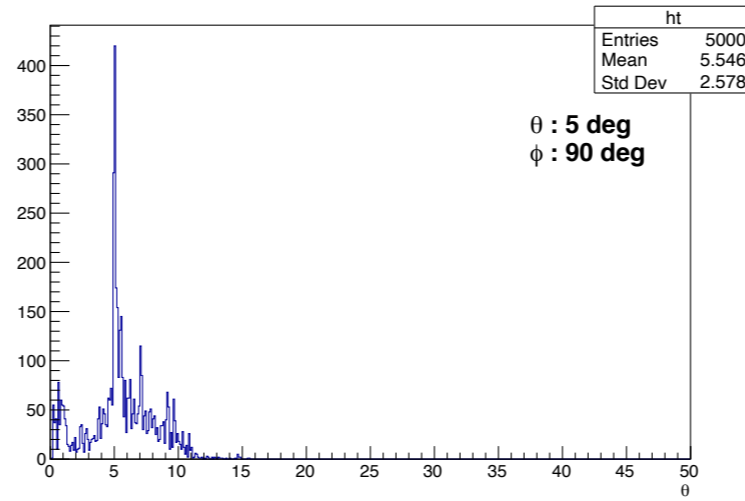
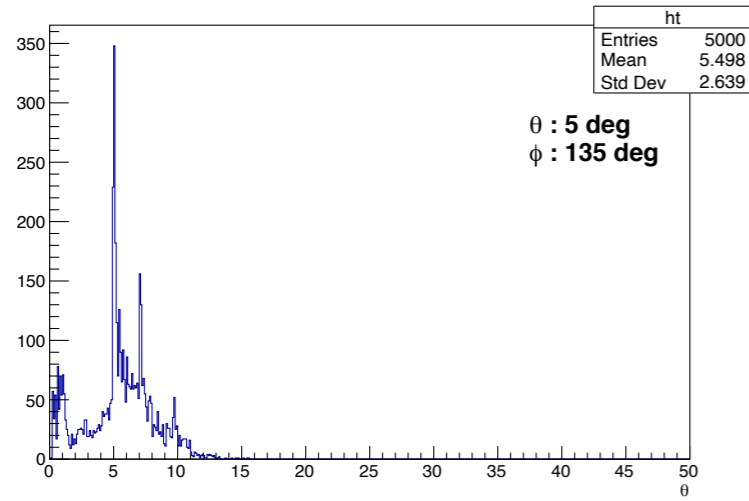
$\theta = 5^\circ$

Position Fixed ($x = 0, z = 0$)



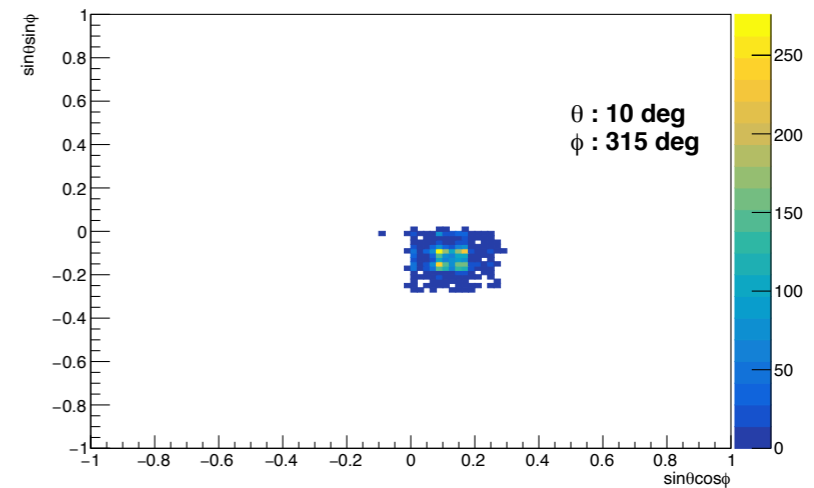
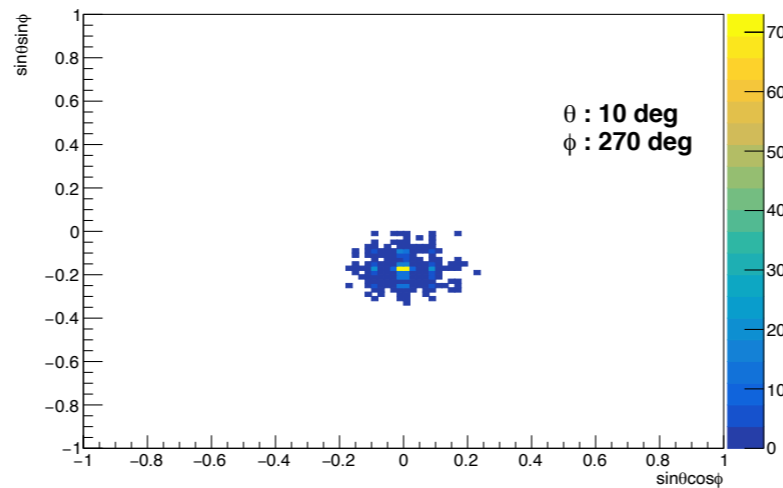
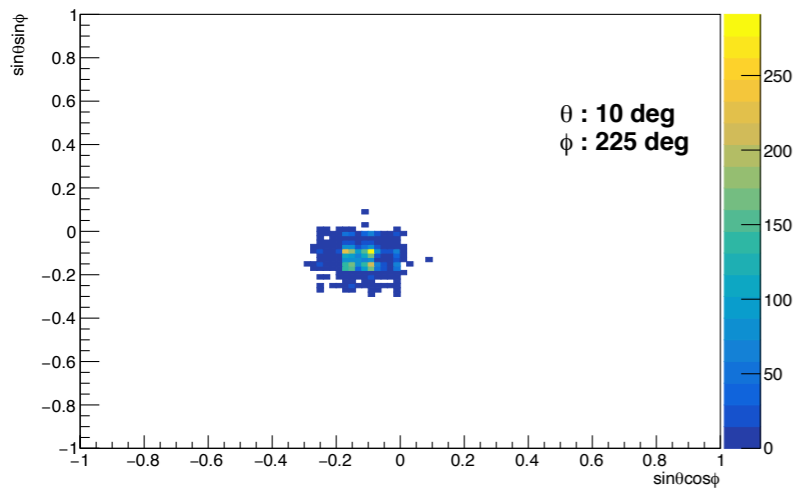
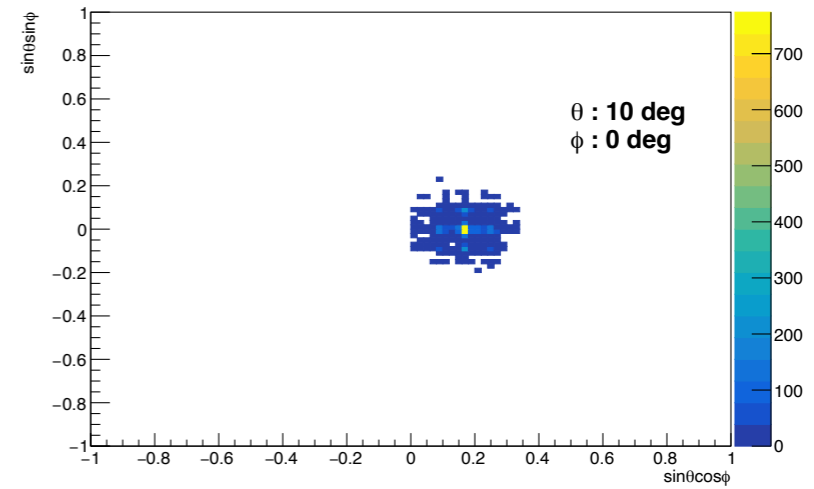
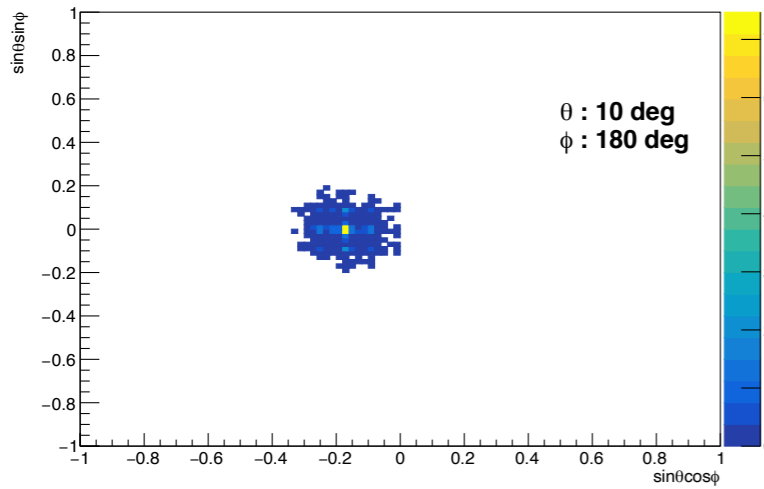
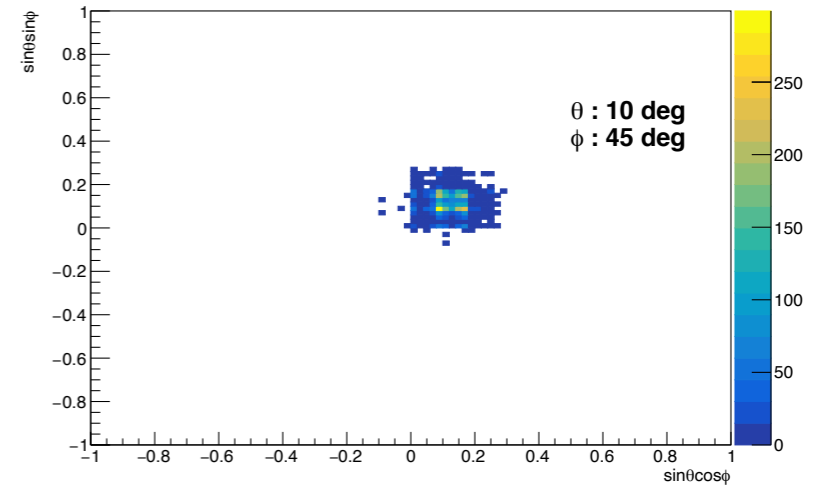
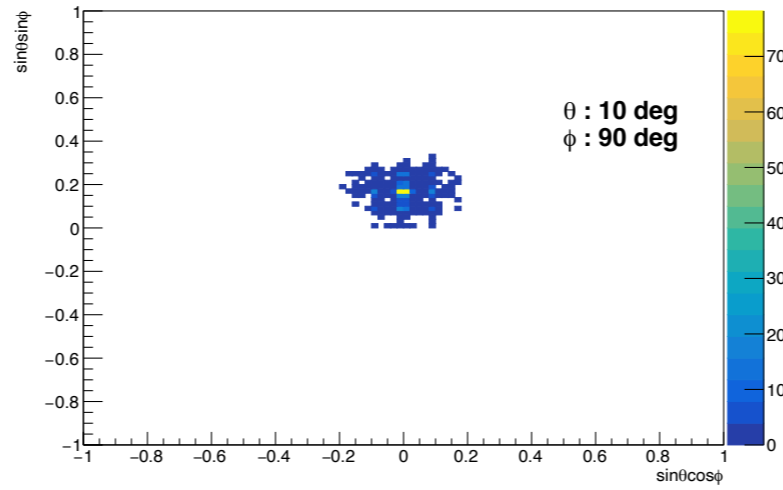
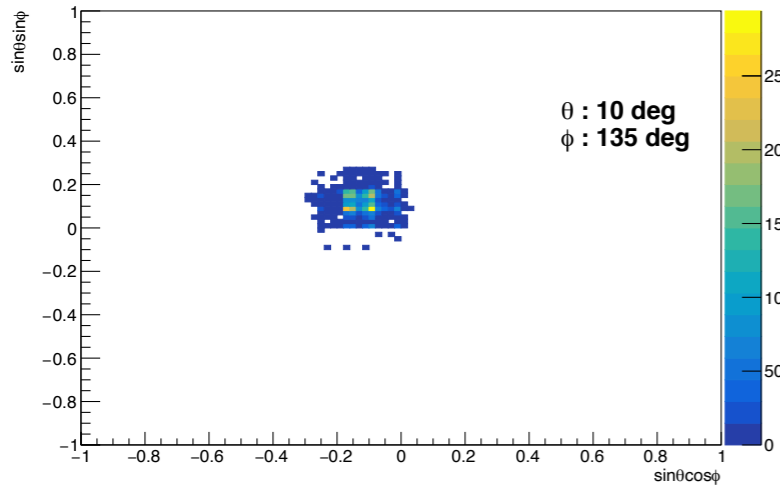
$$\theta = 5^\circ$$

Position Fixed ($x = 0, z = 0$)



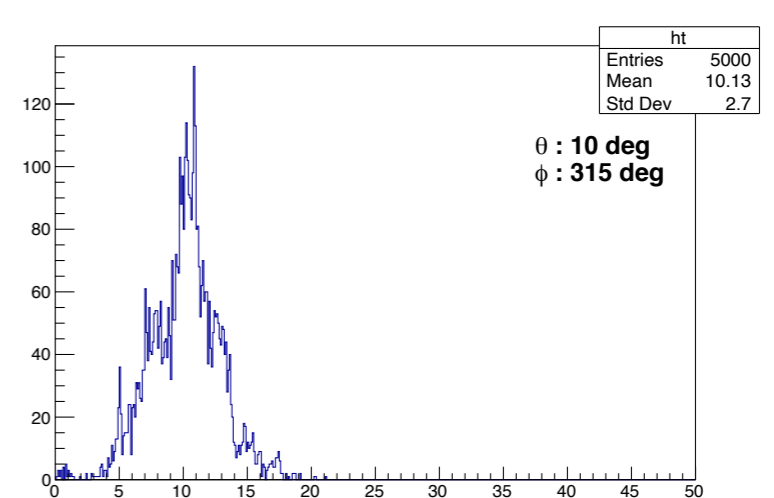
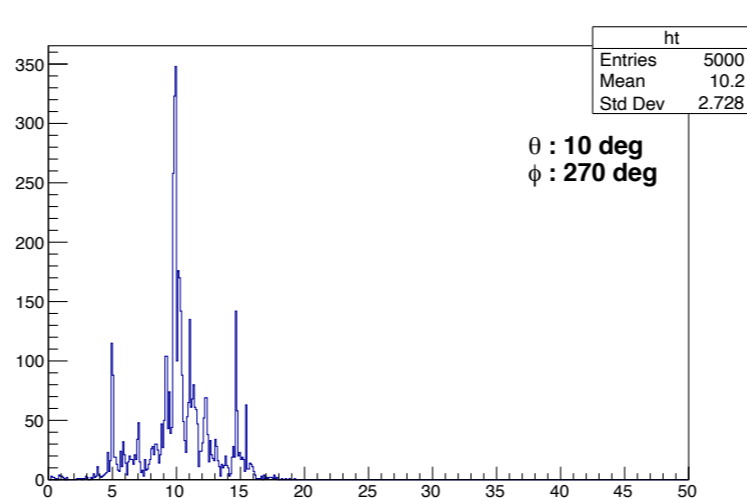
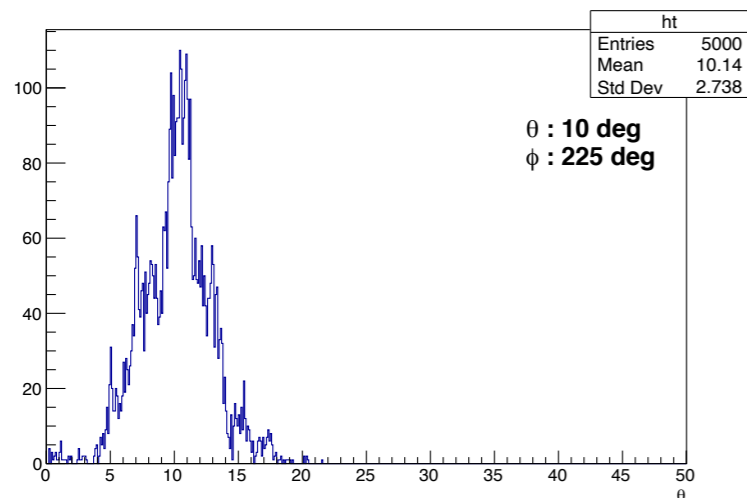
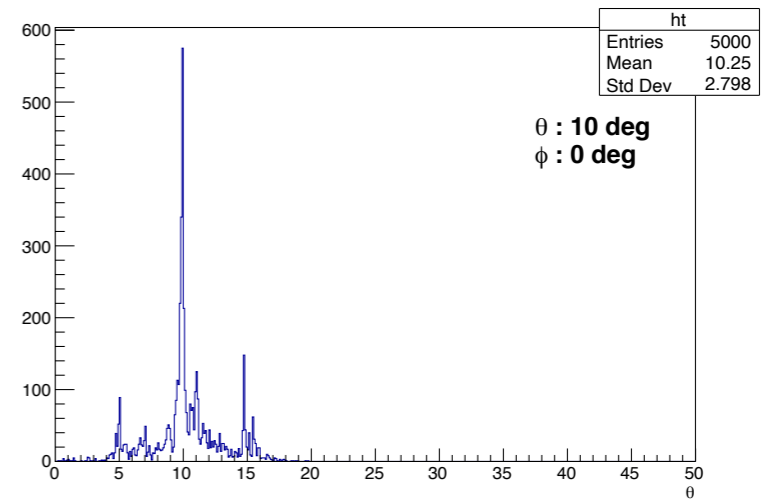
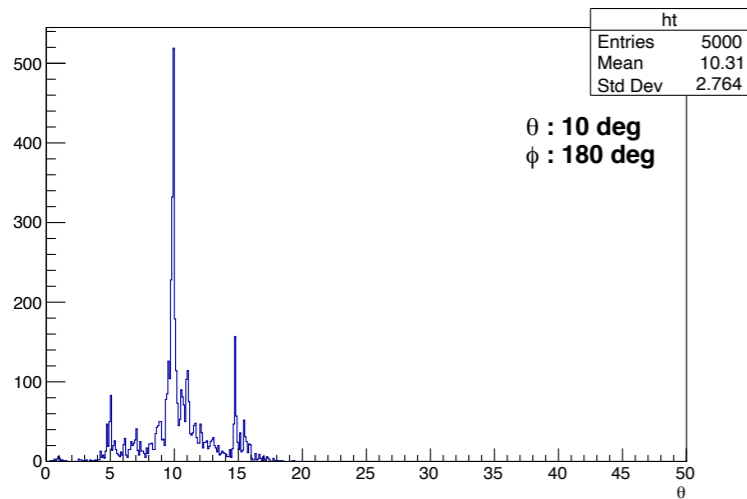
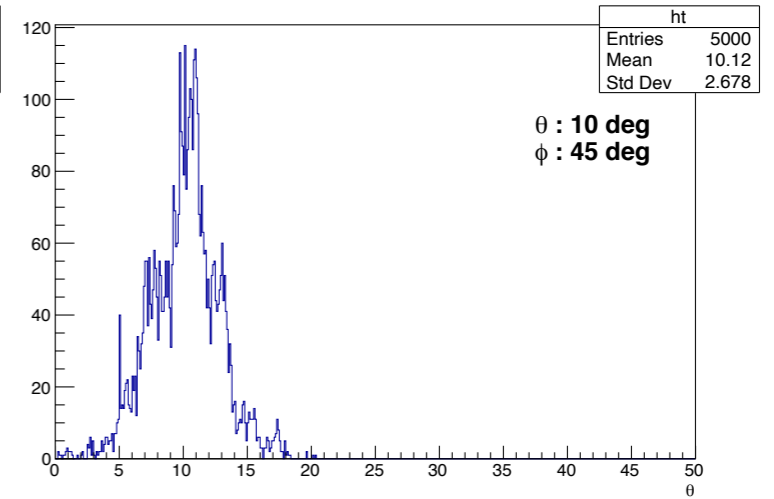
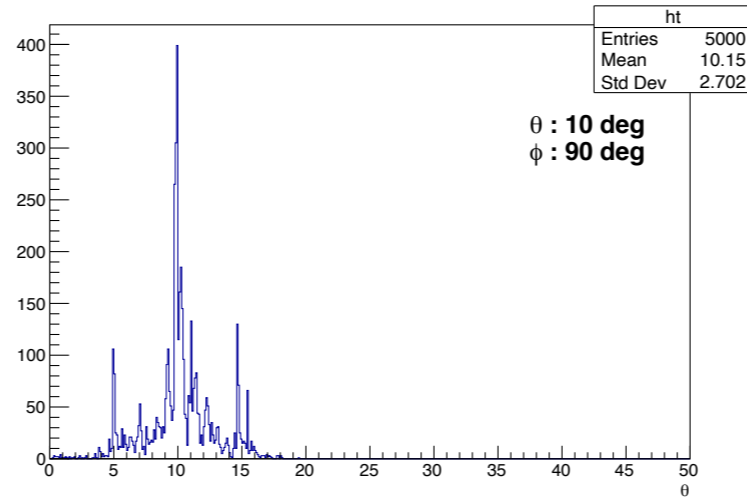
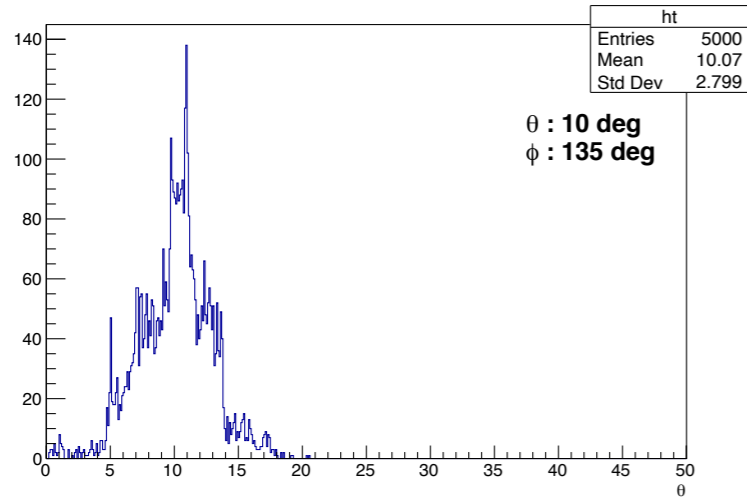
$\theta = 10^\circ$

Position Fixed ($x = 0, z = 0$)



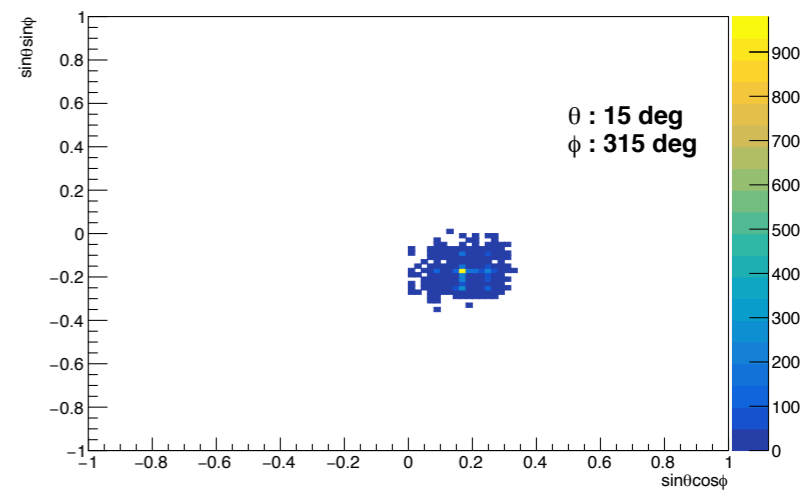
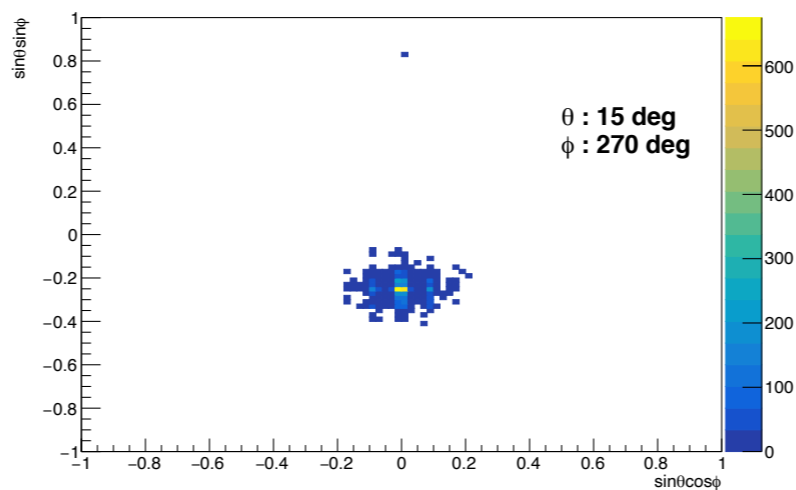
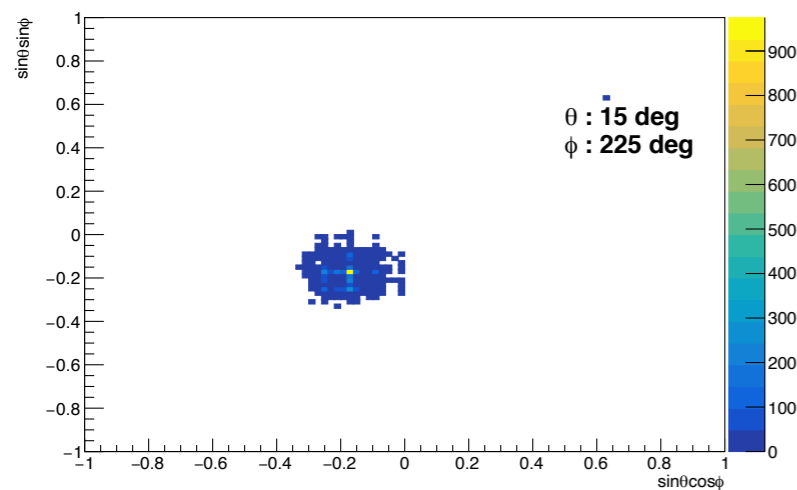
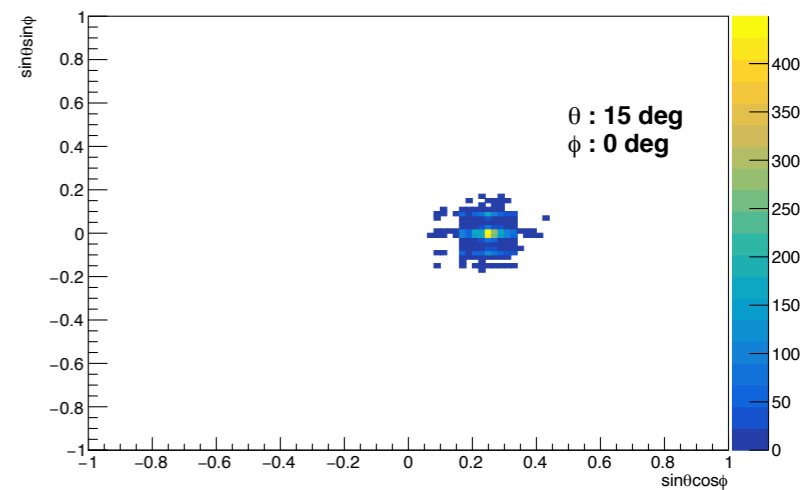
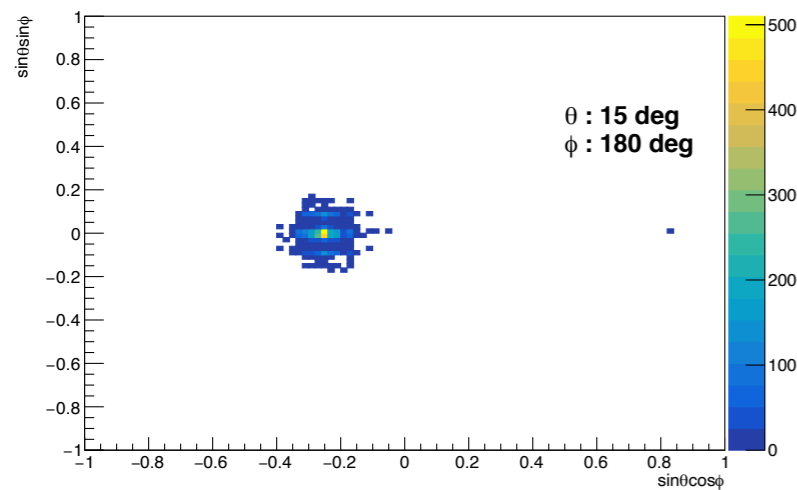
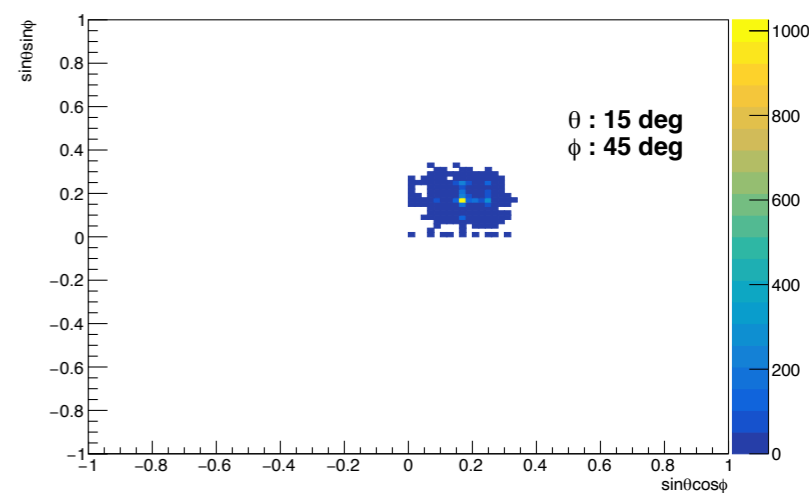
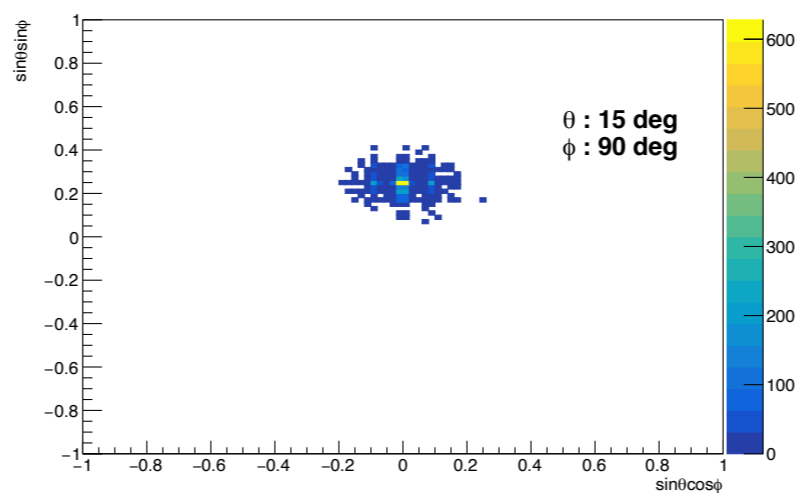
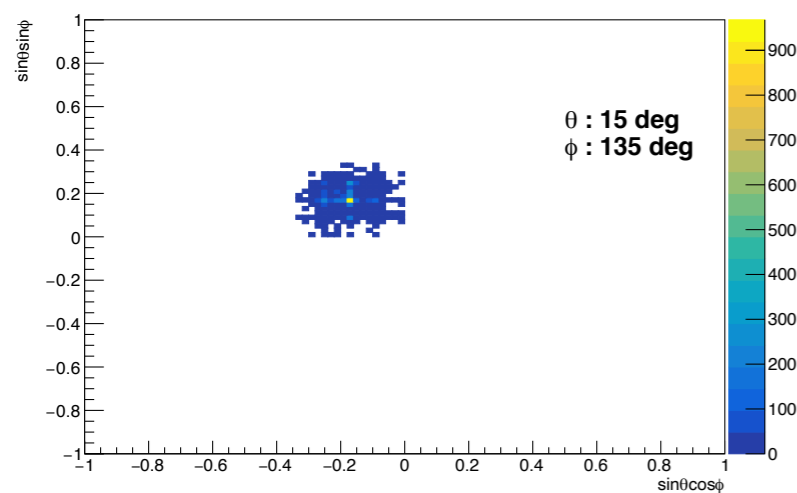
$$\theta = 10^\circ$$

Position Fixed ($x = 0, z = 0$)

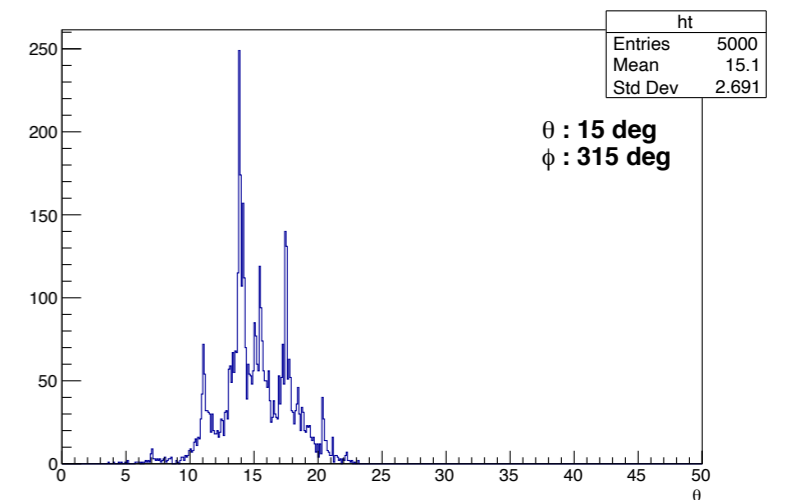
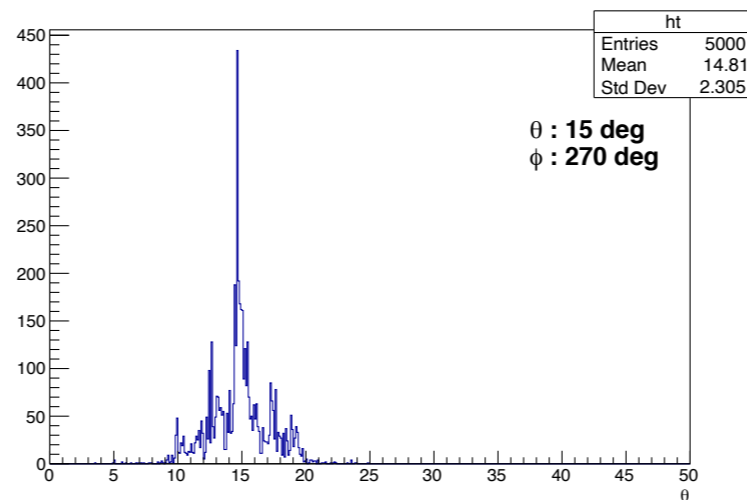
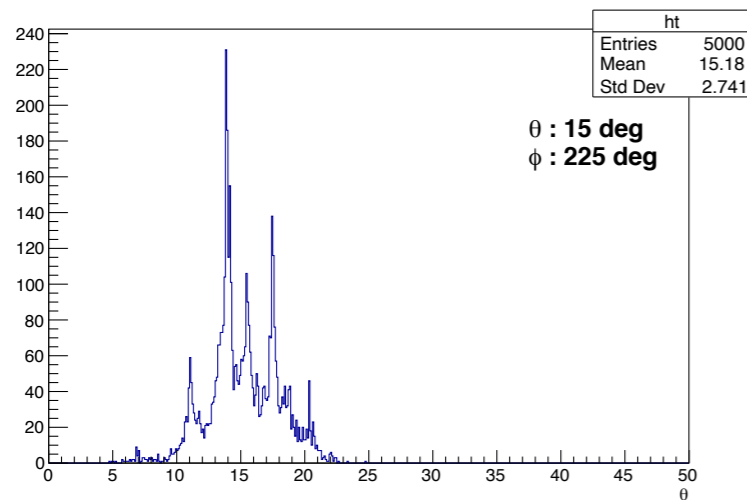
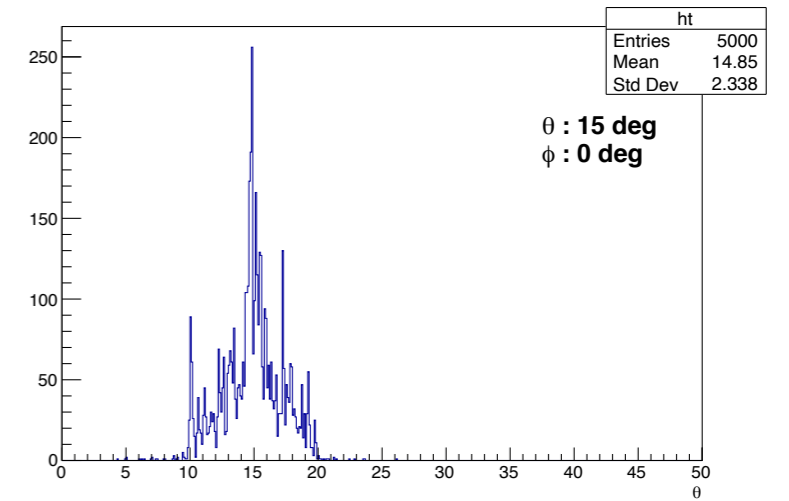
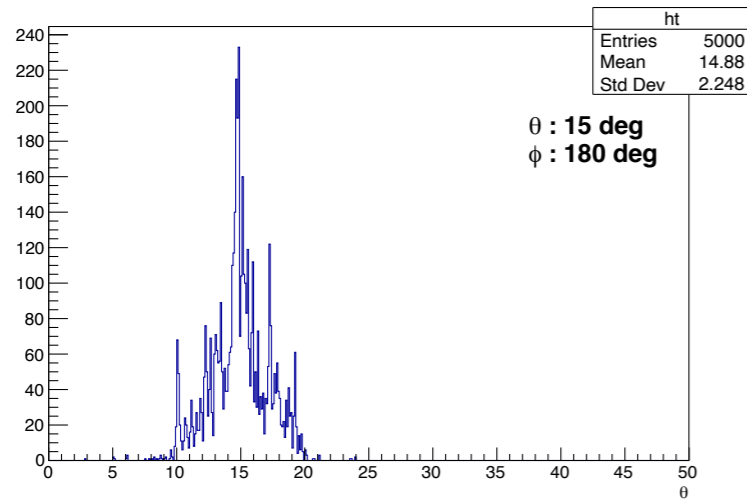
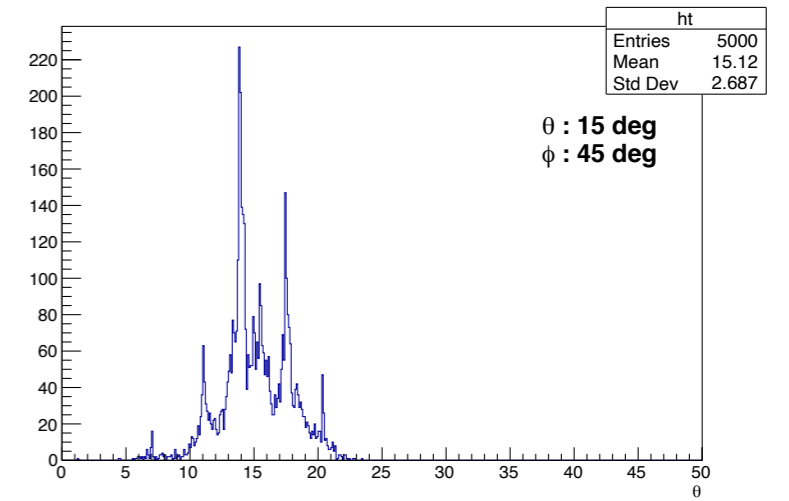
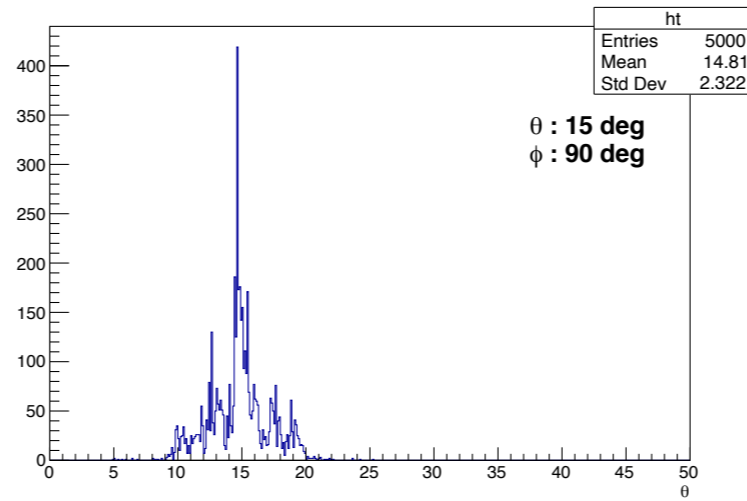
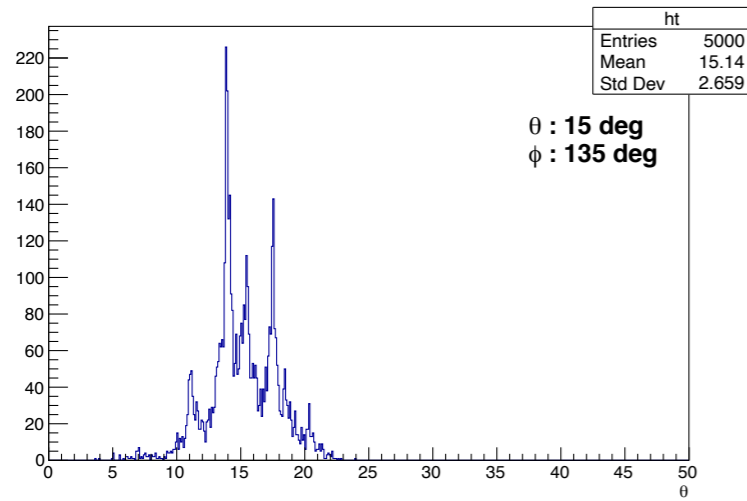


$$\theta = 15^\circ$$

Position Fixed ($x = 0, z = 0$)

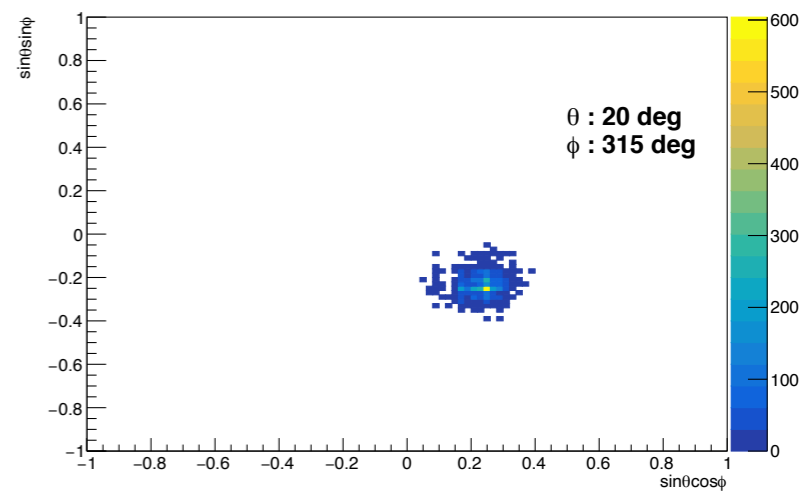
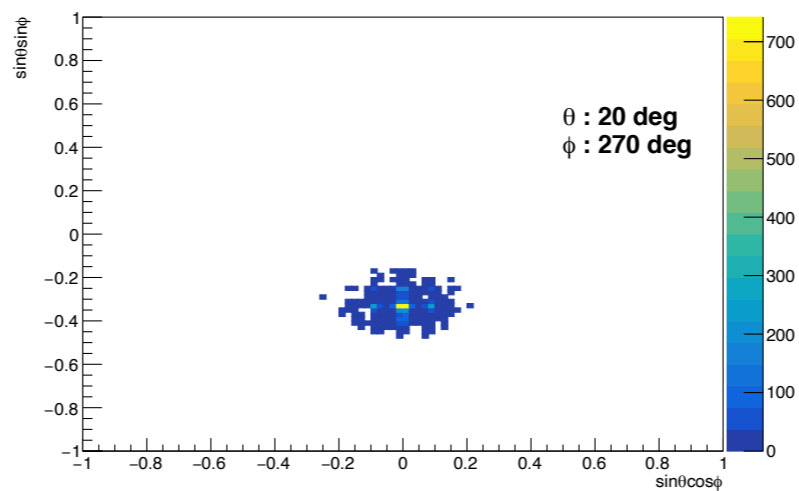
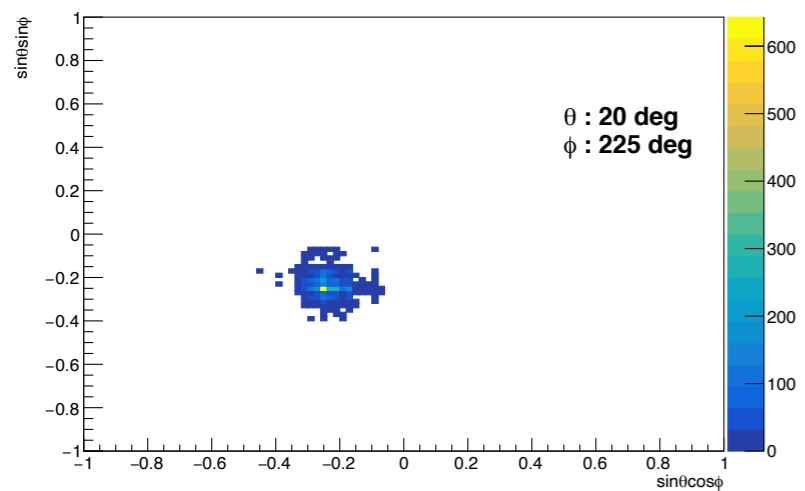
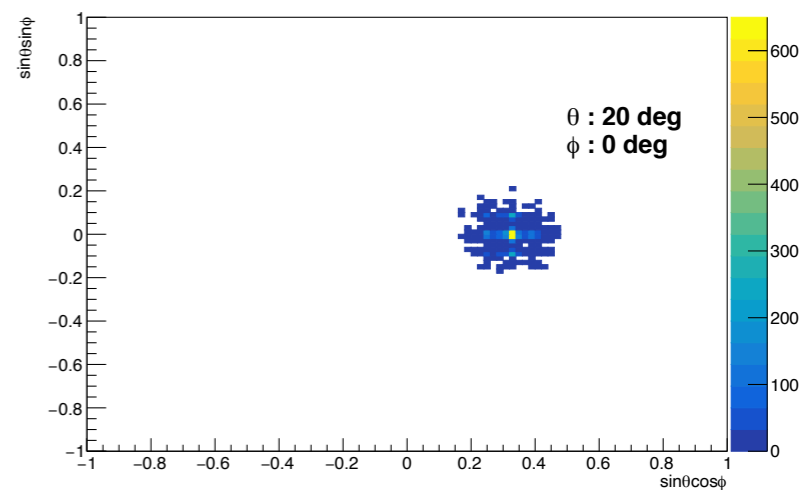
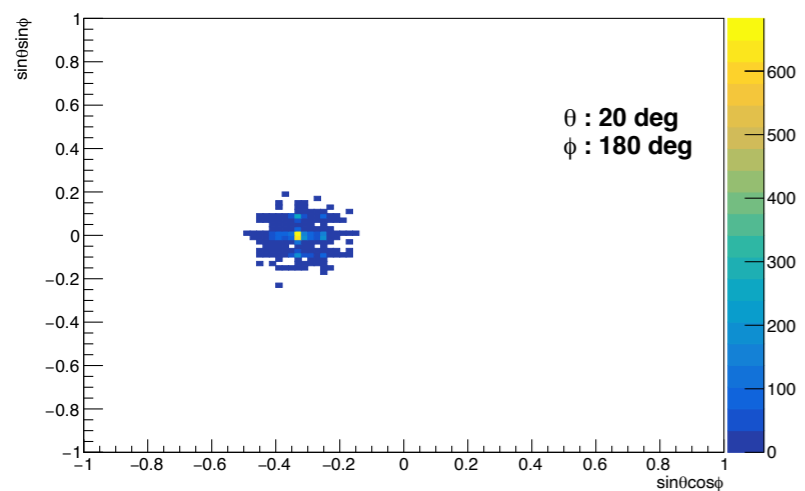
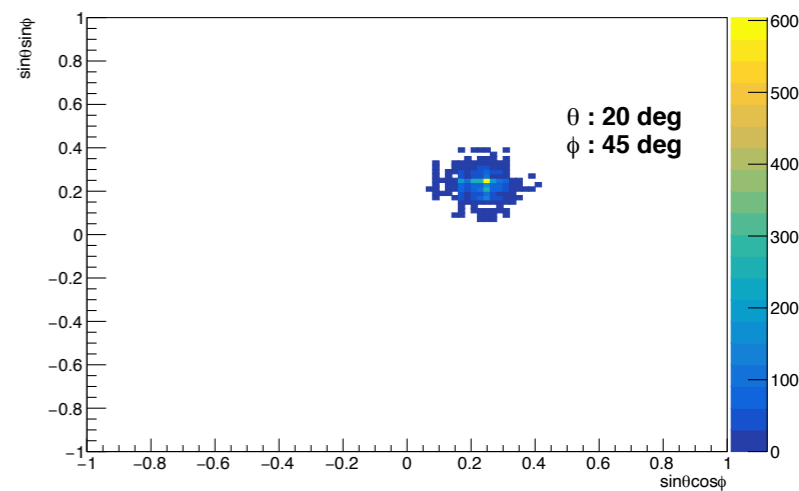
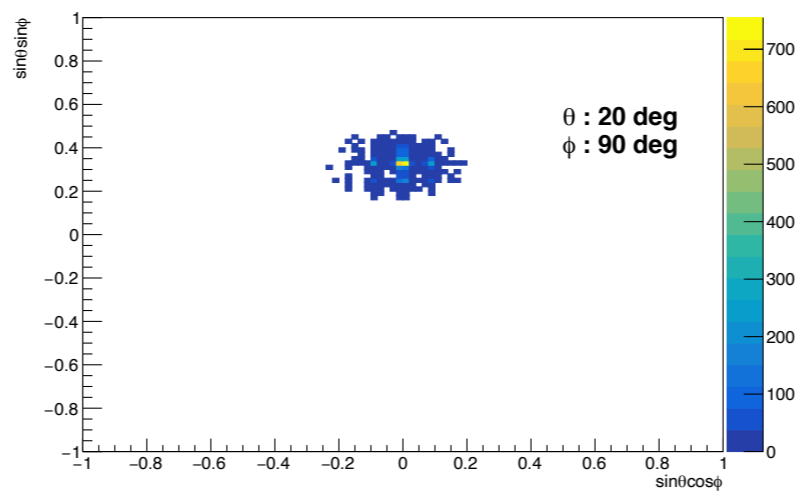
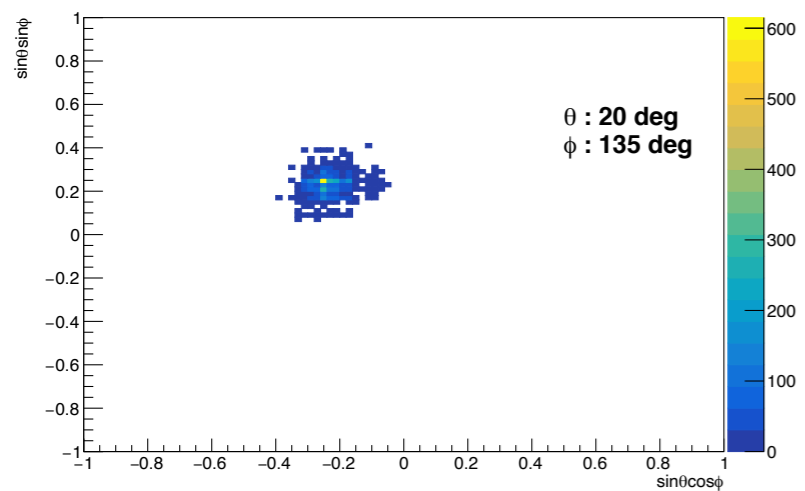


$\theta = 15^\circ$ Position Fixed ($x = 0, z = 0$)



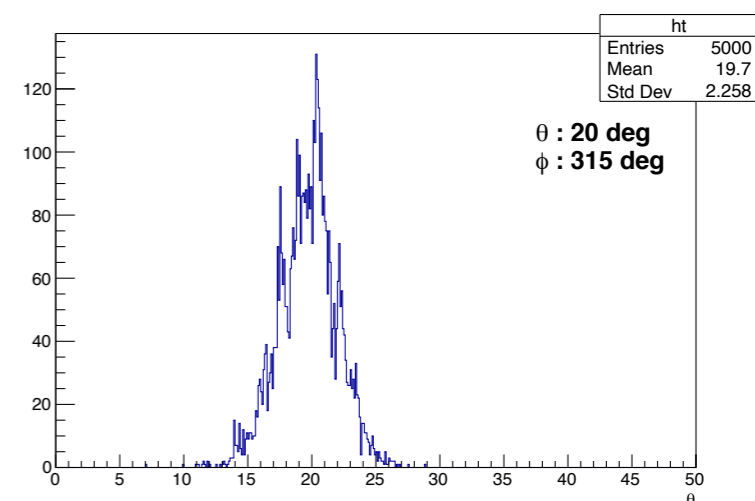
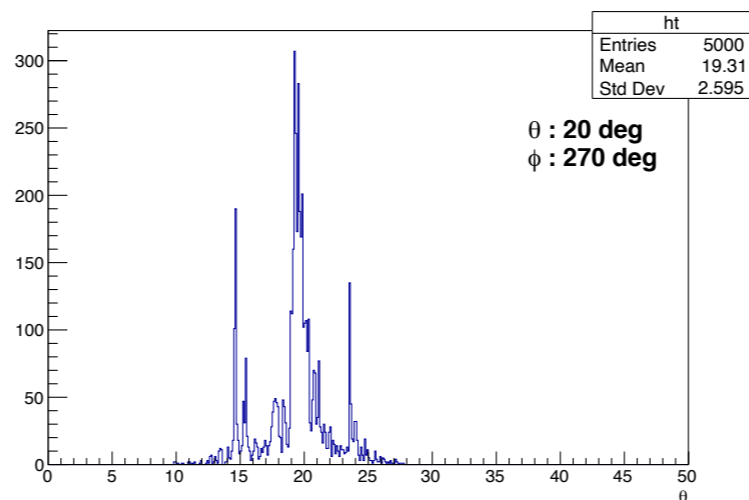
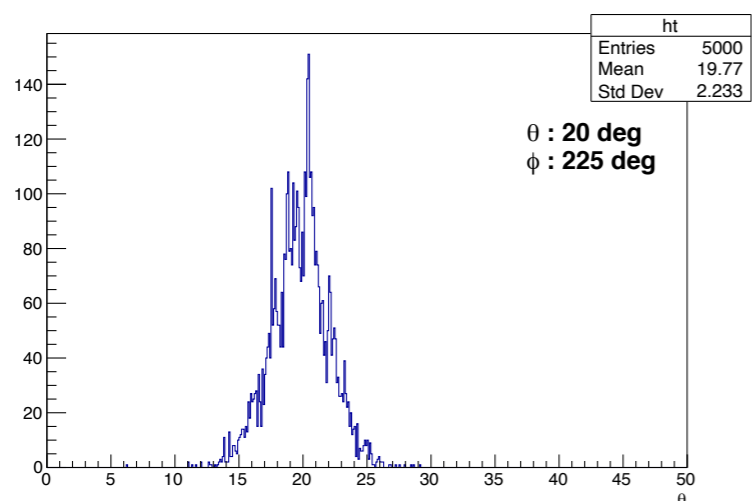
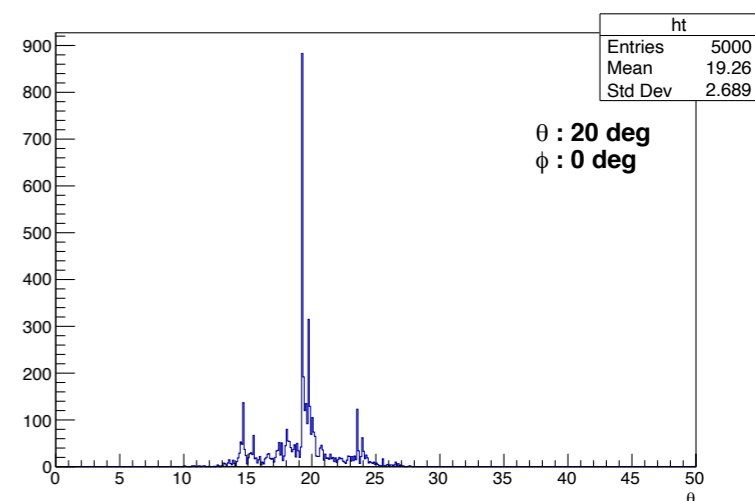
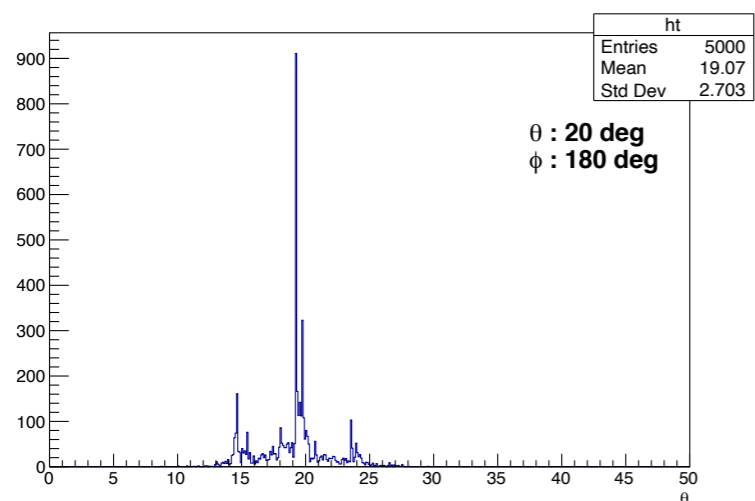
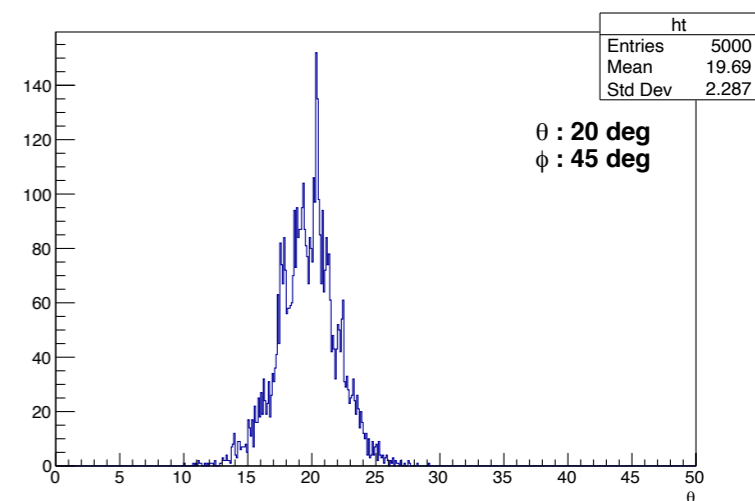
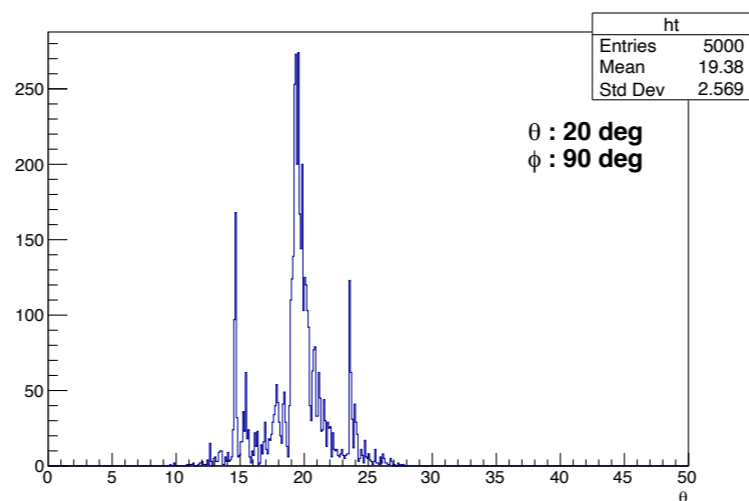
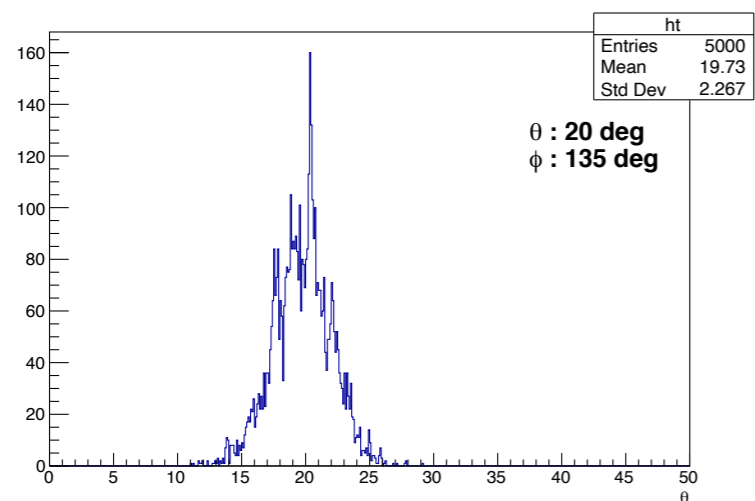
$\theta = 20^\circ$

Position Fixed ($x = 0, z = 0$)



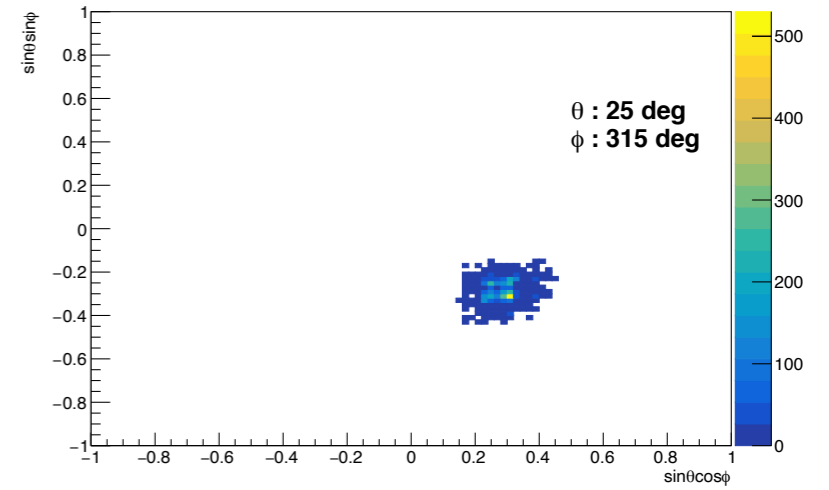
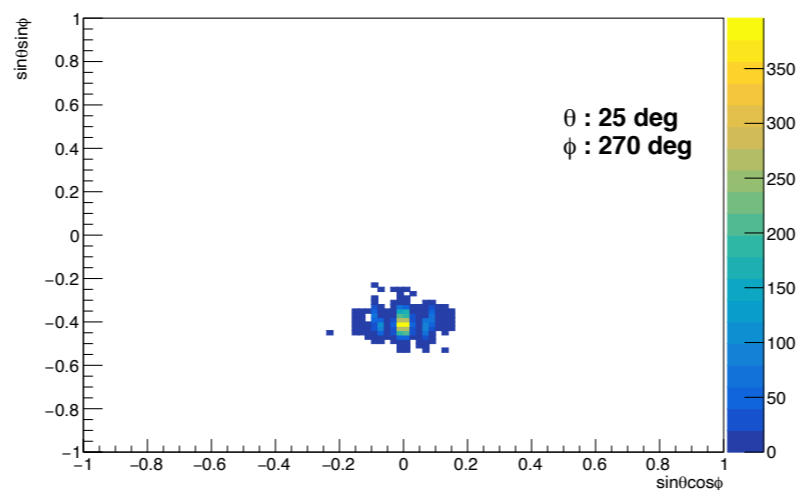
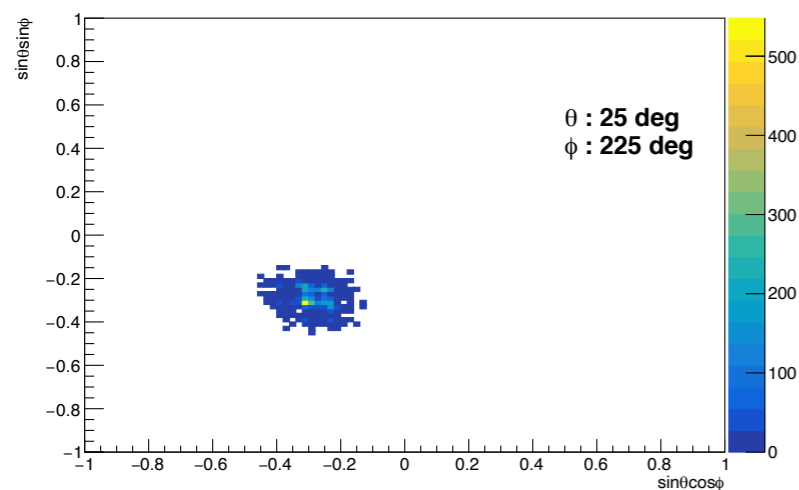
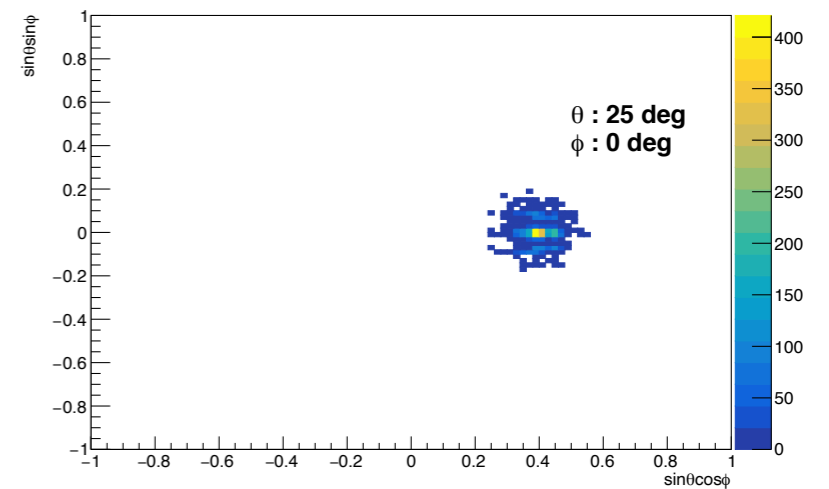
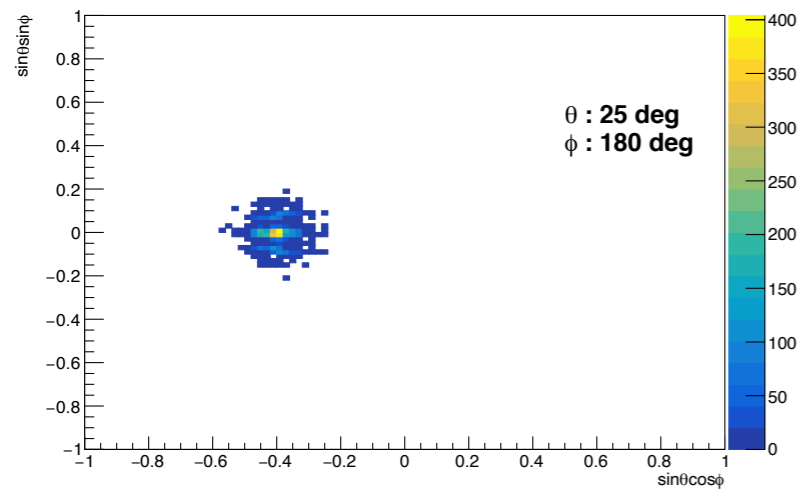
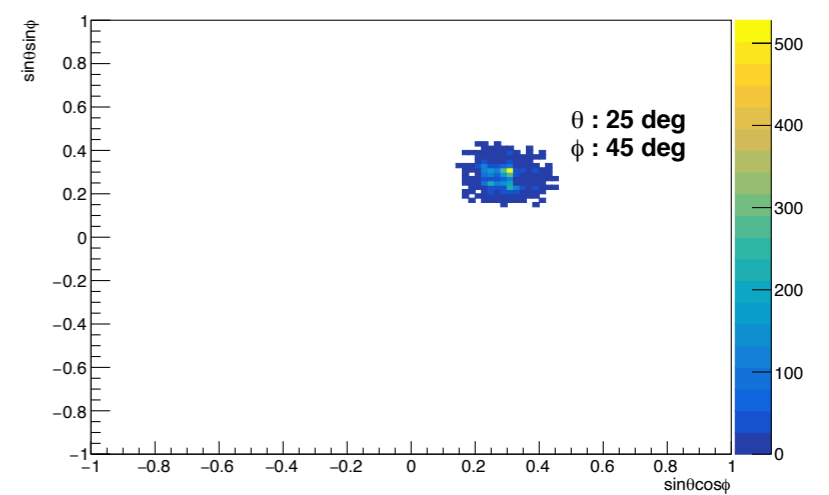
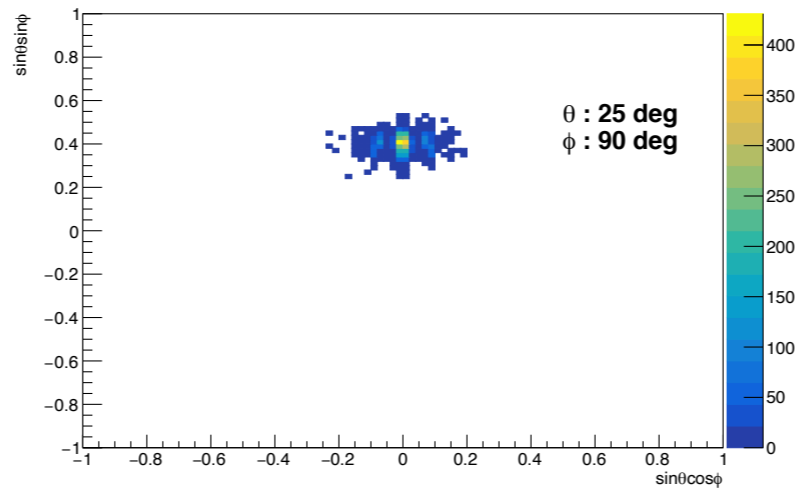
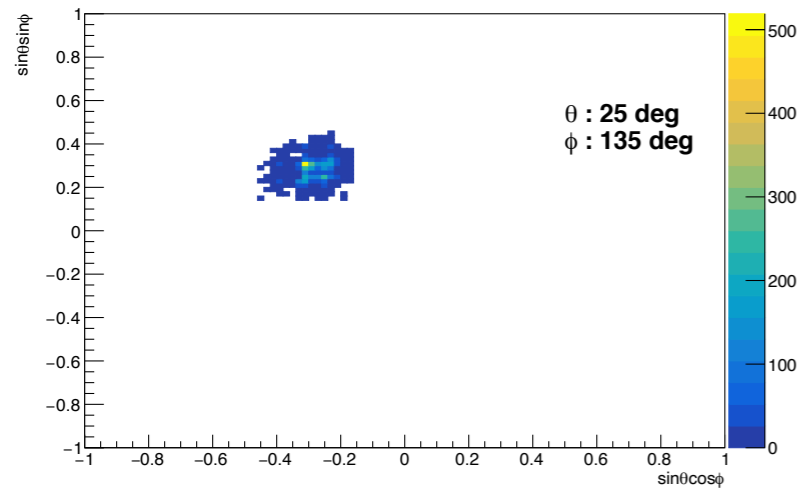
$$\theta = 20^\circ$$

Position Fixed ($x = 0, z = 0$)



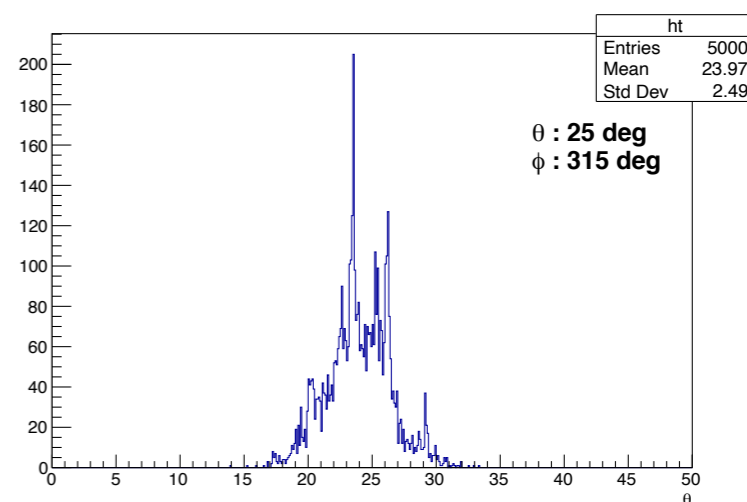
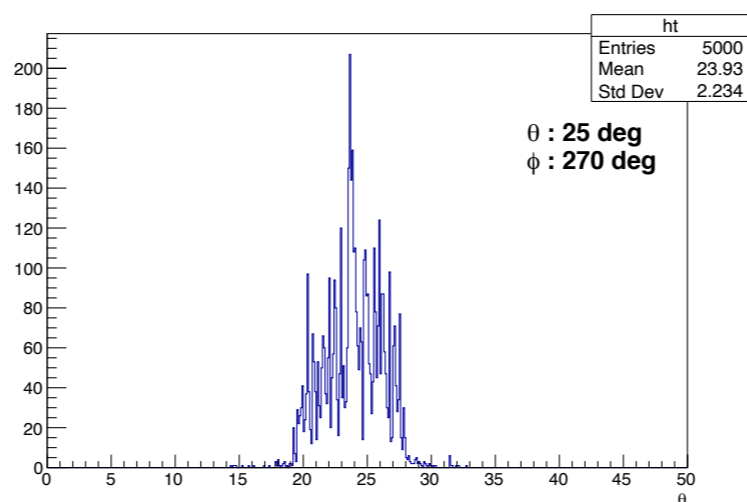
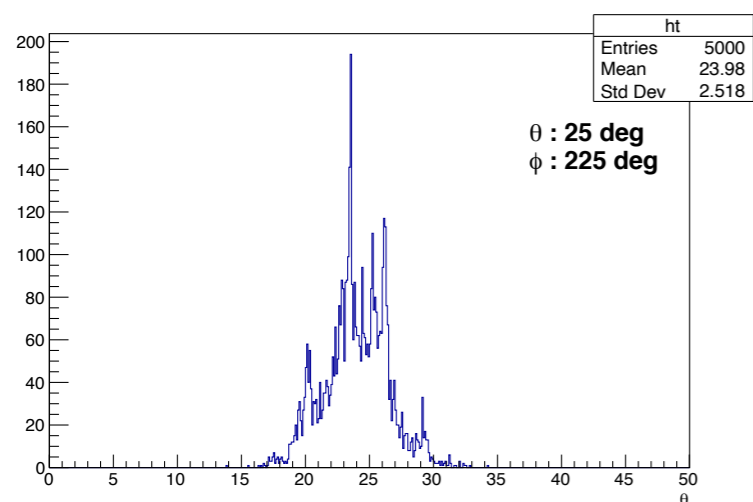
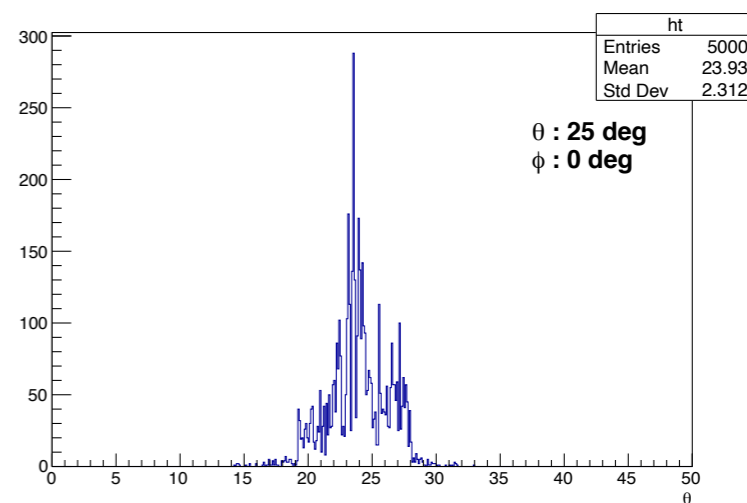
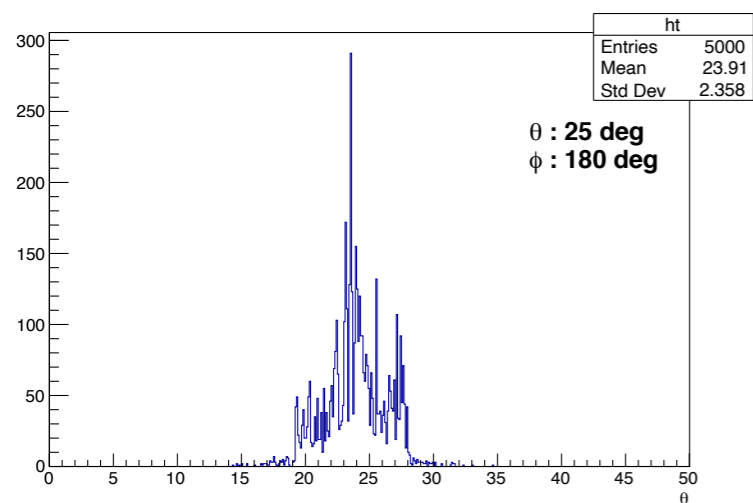
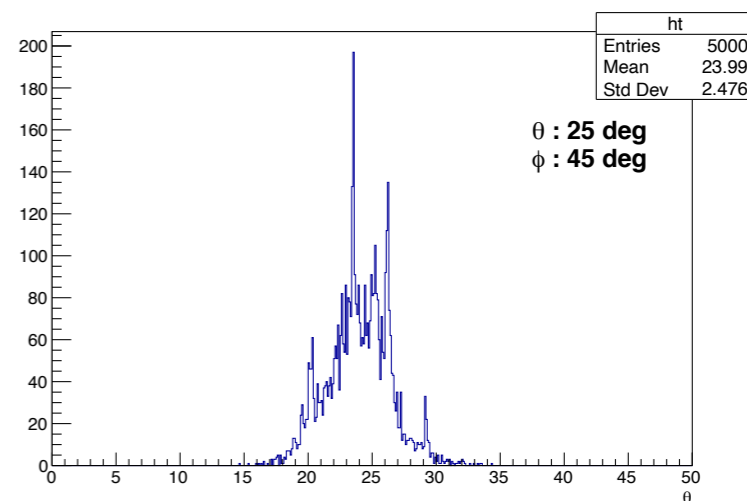
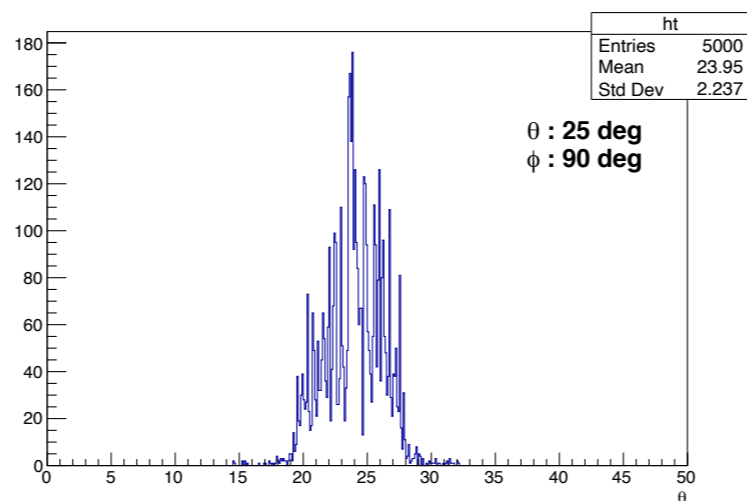
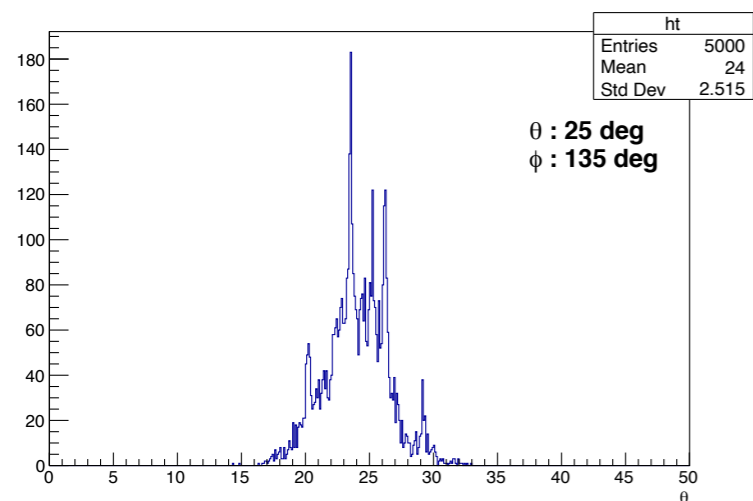
$\theta = 25^\circ$

Position Fixed ($x = 0, z = 0$)

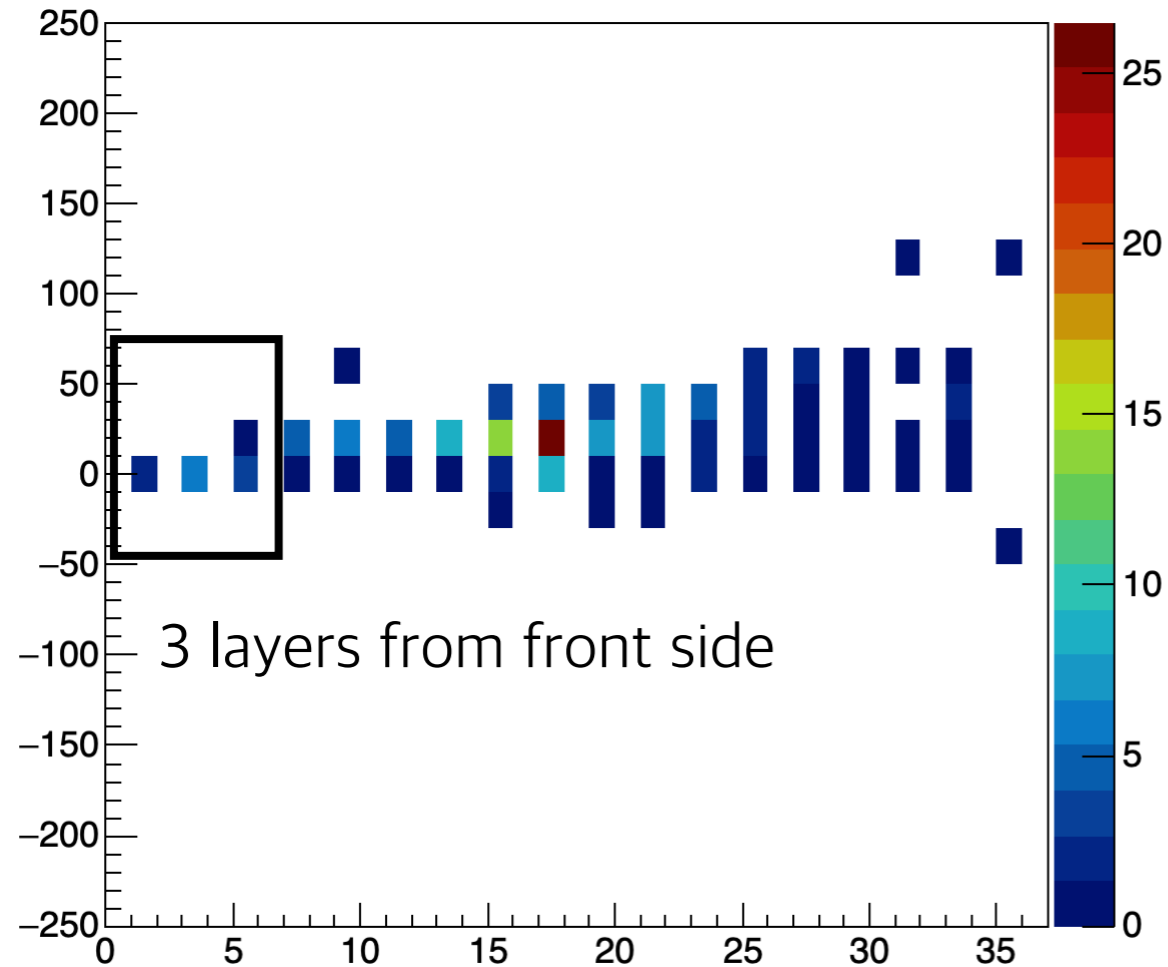


$\theta = 25^\circ$

Position Fixed ($x = 0, z = 0$)



Find Surface position?



1. Find front side hits
2. Make energy weighted mean with three layers hit information

back up

