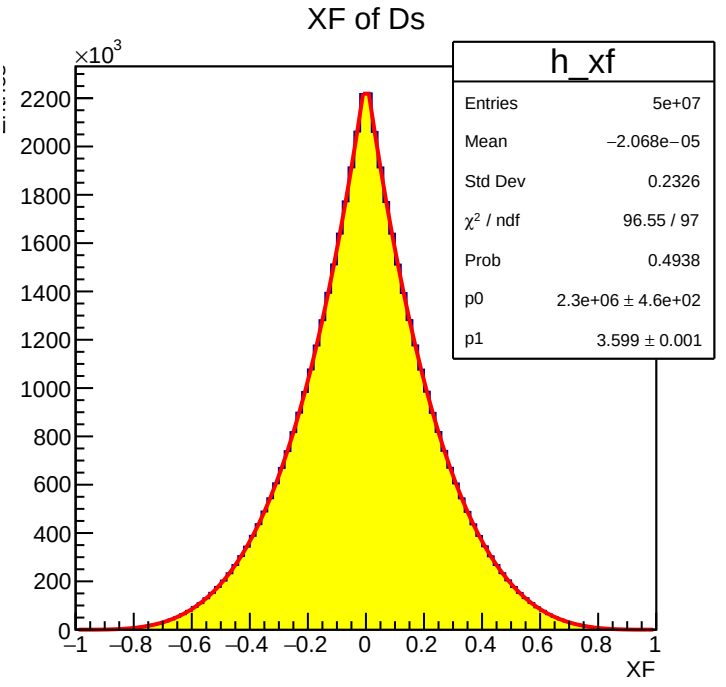
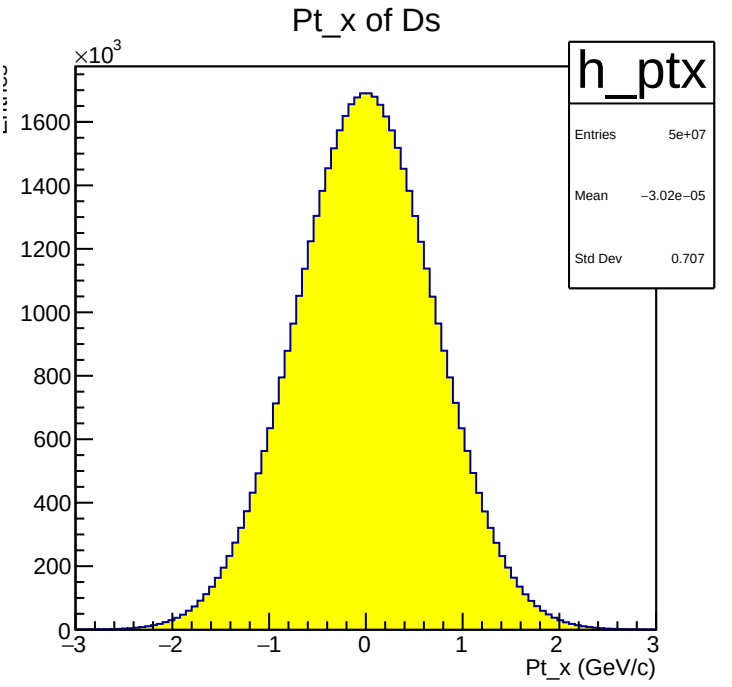
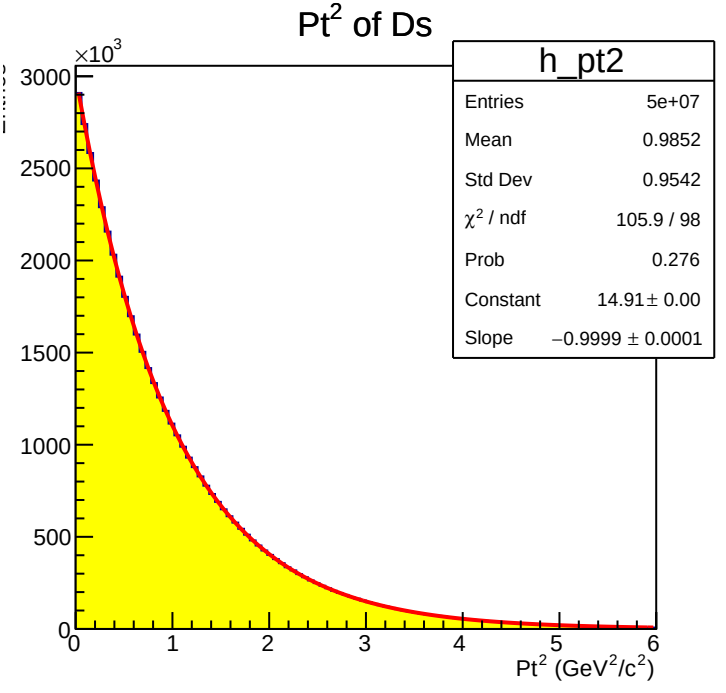
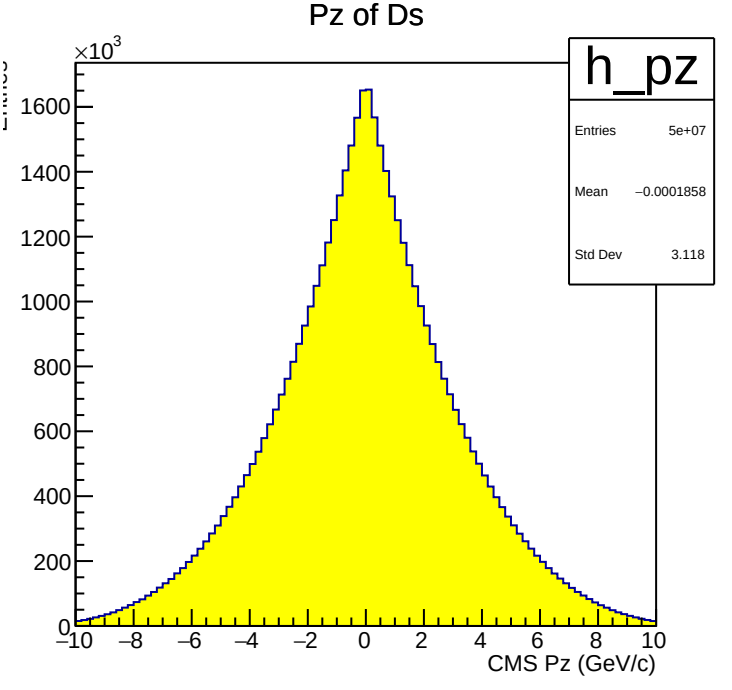
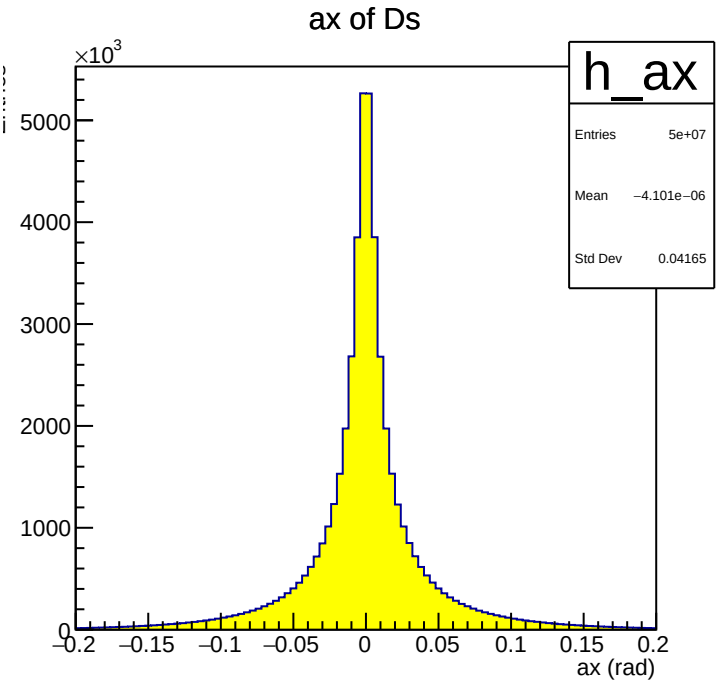
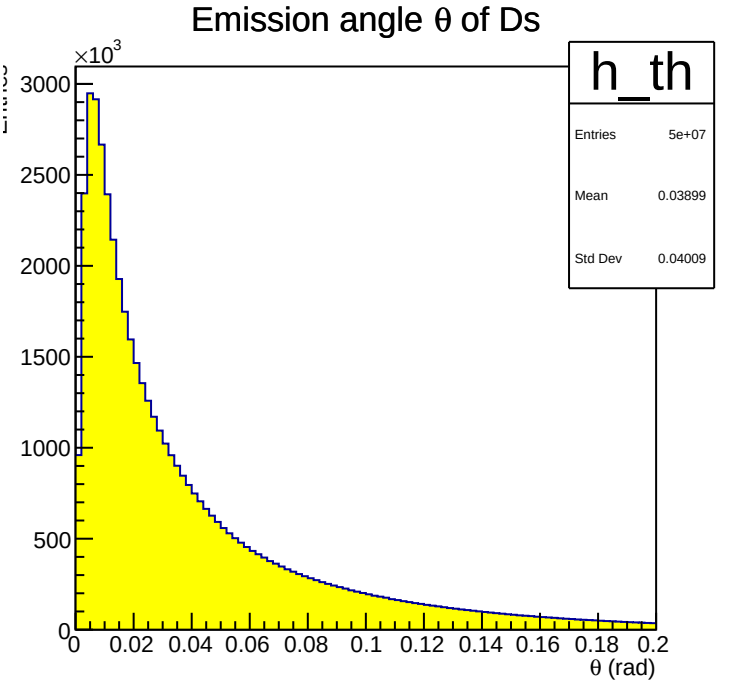

XF of Ds
h_xf
Entries 5e+07
Mean −2.068e−05
Std Dev 0.2326
χ² / ndf 96.55 / 97
Prob 0.4938
p0 2.3e+06 ± 4.6e+02
p1 3.599 ± 0.001
×10³
XF

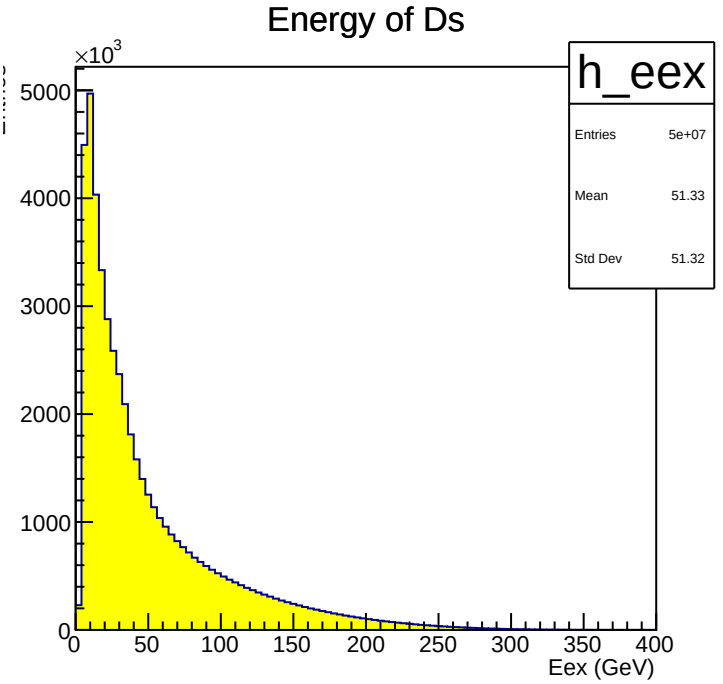

Pt_x of Ds
h_ptx
Entries 5e+07
Mean −3.02e−05
Std Dev 0.707
×10³
Pt_x (GeV/c)

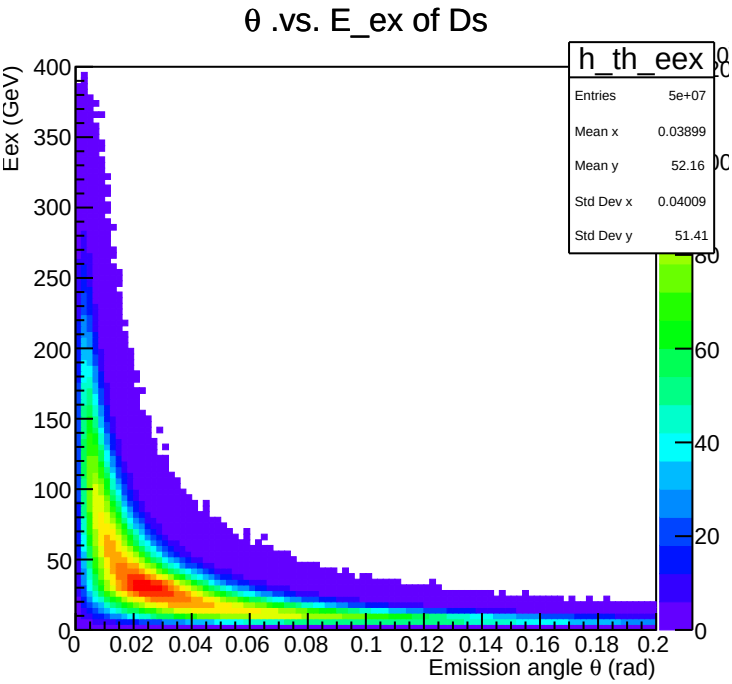

Pt² of Ds
h_pt2
Entries 5e+07
Mean 0.9852
Std Dev 0.9542
χ² / ndf 105.9 / 98
Prob 0.276
Constant 14.91± 0.00
Slope −0.9999 ± 0.0001
×10³
Pt² (GeV²/c²)


Pz of Ds
h_pz
Entries 5e+07
Mean −0.0001858
Std Dev 3.118
×10³
CMS Pz (GeV/c)

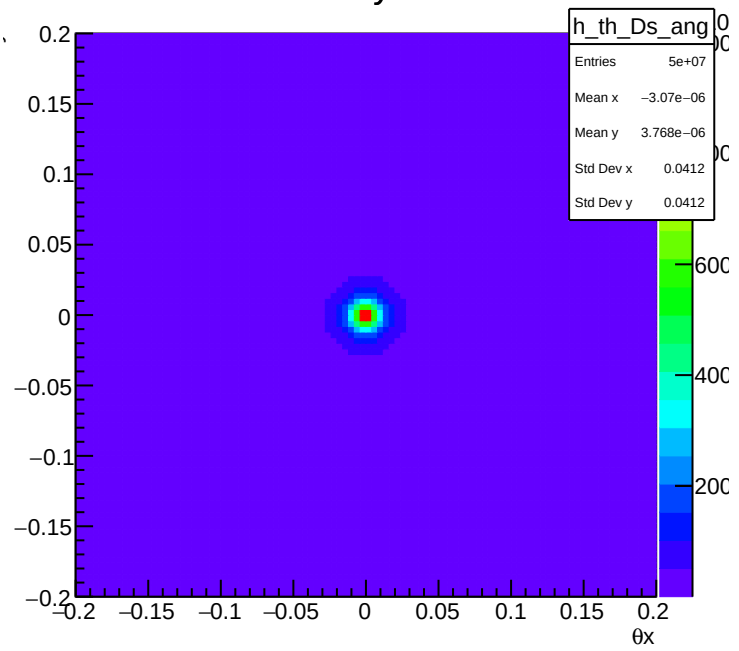

ax of Ds
h_ax
Entries 5e+07
Mean −4.101e−06
Std Dev 0.04165
×10^3
ax (rad)


Emission angle θ of Ds
h_th
Entries 5e+07
Mean 0.03899
Std Dev 0.04009
×10^3
θ (rad)

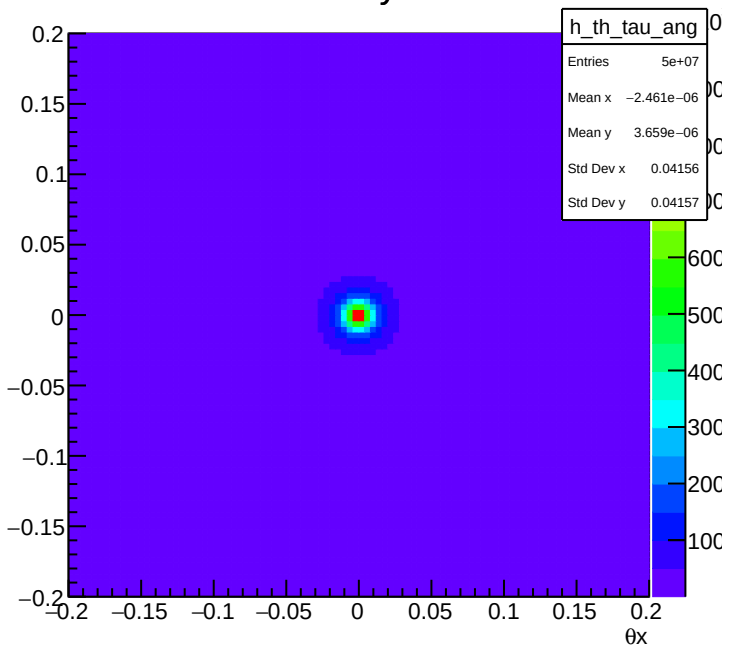

Energy of Ds
h_eex
Entries 5e+07
Mean 51.33
Std Dev 51.32
×10^3
Eex (GeV)


θ .vs. E_ex of Ds
h_th_eex
Entries 5e+07
Mean x 0.03899
Mean y 52.16
Std Dev x 0.04009
Std Dev y 51.41
Eex (GeV)
Emission angle θ (rad)

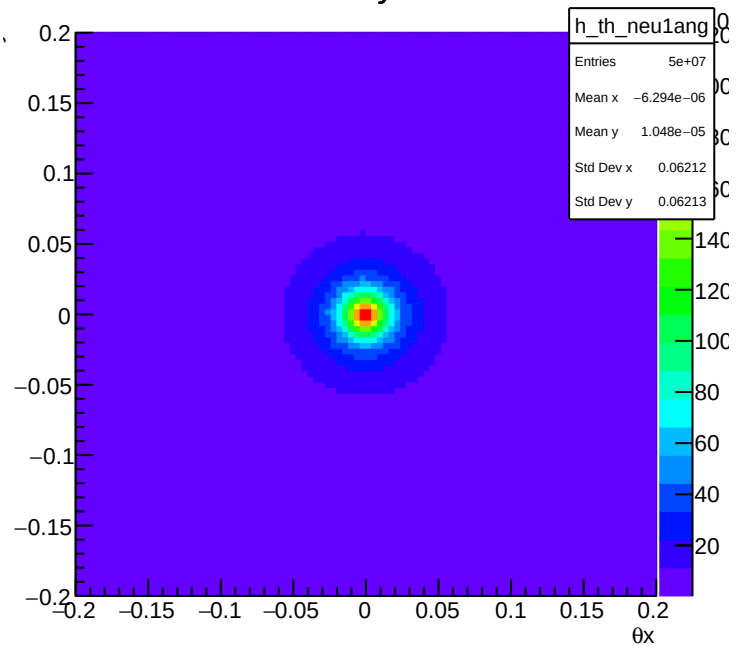
θx .vs. θy of Ds



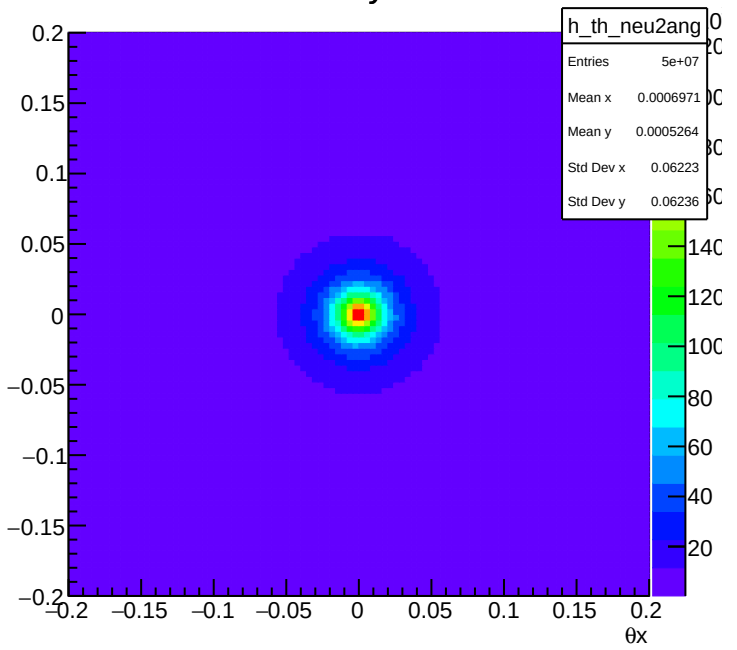
θx .vs. θy of τ

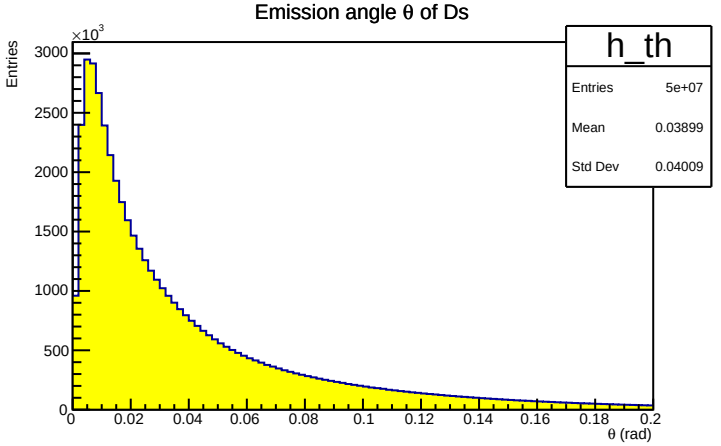


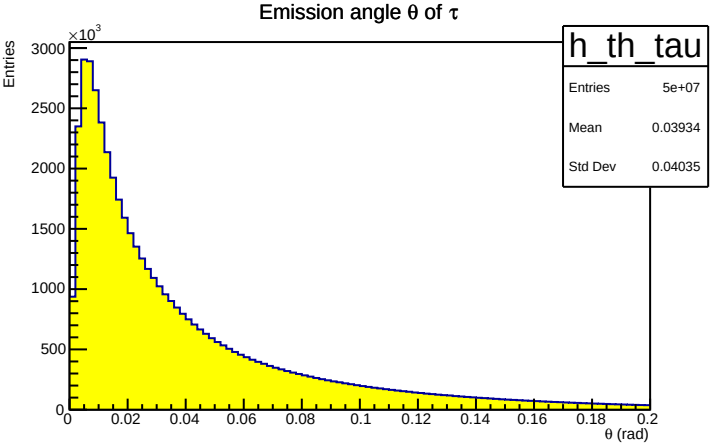
θx .vs. θy of ν1

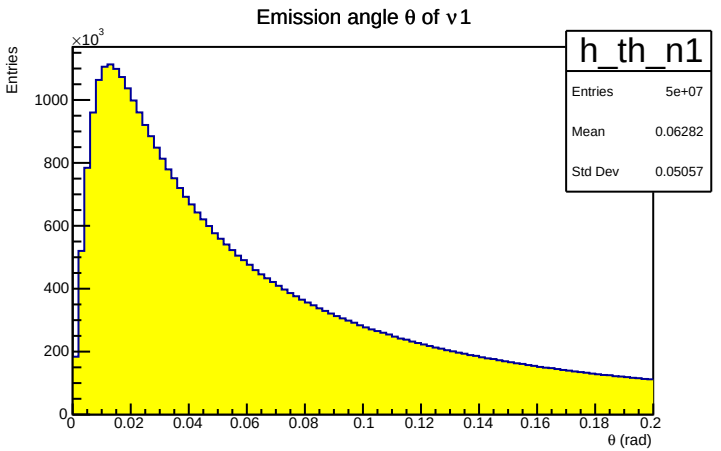


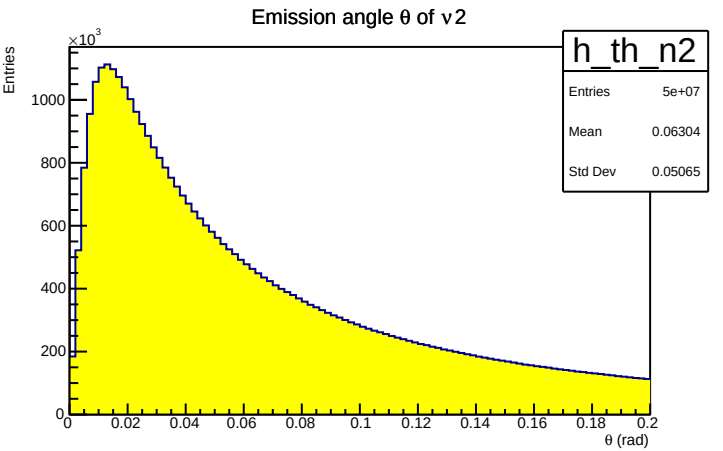
θx .vs. θy of ν2

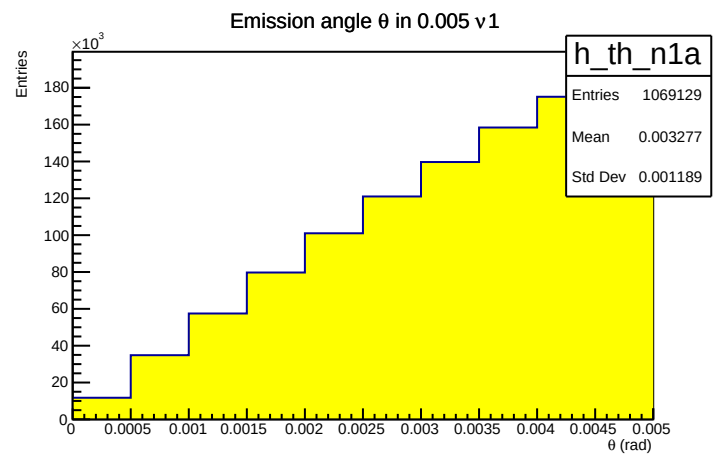


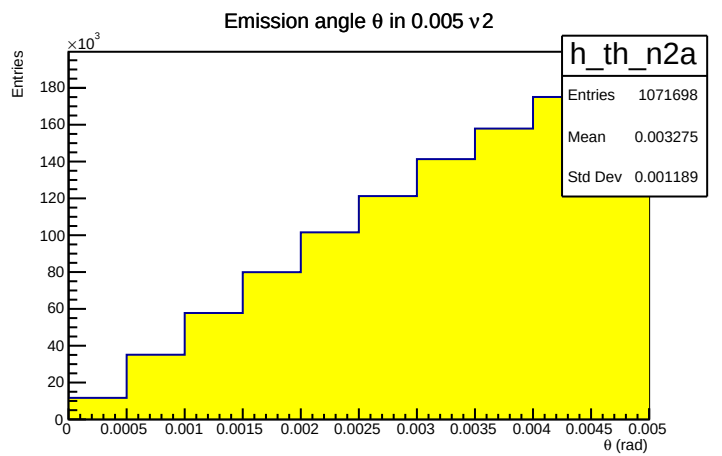

Emission angle θ of Ds
h_th
Entries 5e+07
Mean 0.03899
Std Dev 0.04009
Entries
θ (rad)

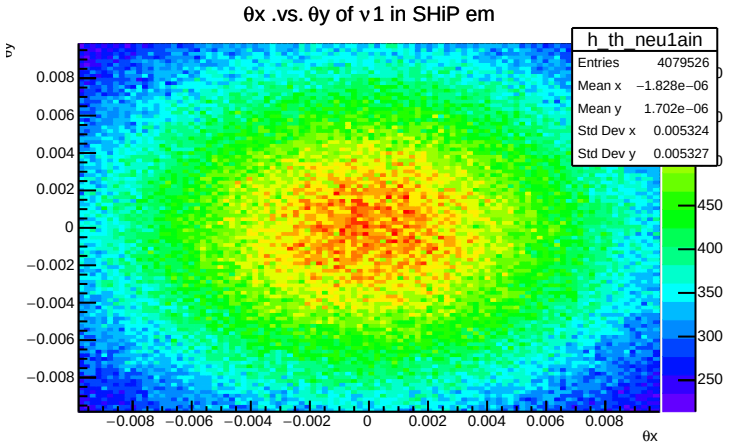

Emission angle θ of τ
h_th_tau
Entries 5e+07
Mean 0.03934
Std Dev 0.04035
Entries
θ (rad)

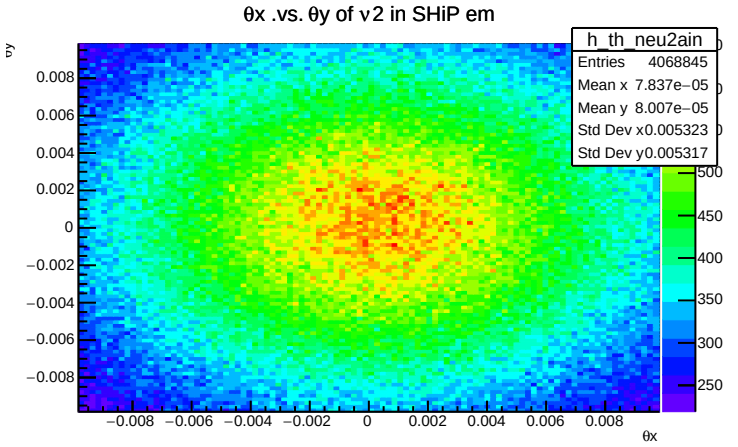

Emission angle θ of ν1
h_th_n1
Entries 5e+07
Mean 0.06282
Std Dev 0.05057
Entries
θ (rad)

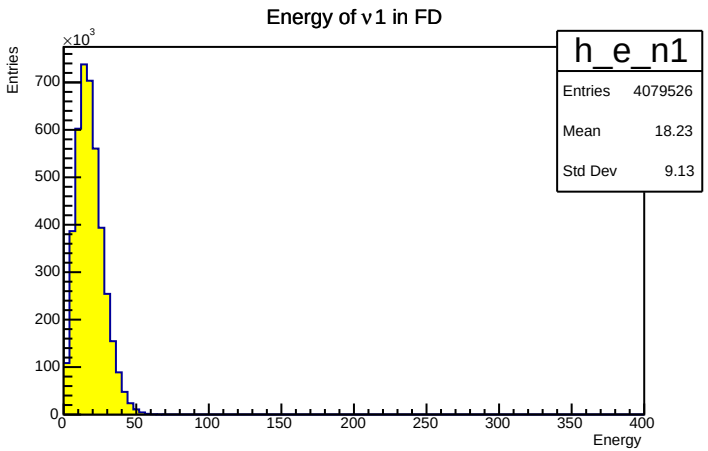

Emission angle θ of ν2
h_th_n2
Entries 5e+07
Mean 0.06304
Std Dev 0.05065
Entries
θ (rad)

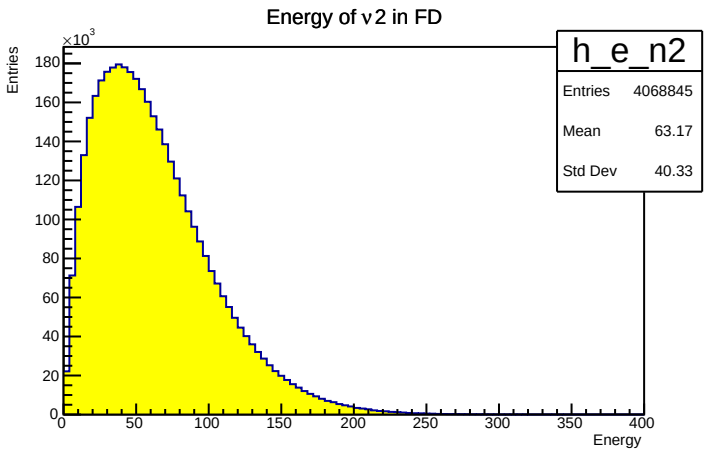

Emission angle θ in 0.005 ν1
h_th_n1a
Entries 1069129
Mean 0.003277
Std Dev 0.001189
Entries
θ (rad)

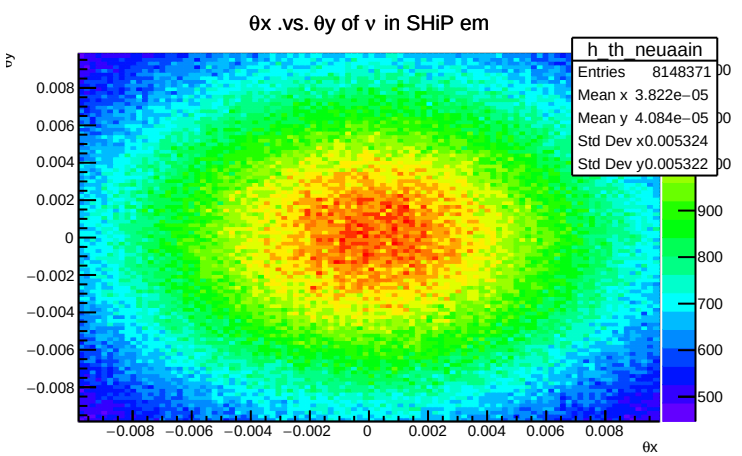

Emission angle θ in 0.005 ν2
h_th_n2a
Entries 1071698
Mean 0.003275
Std Dev 0.001189
Entries
θ (rad)

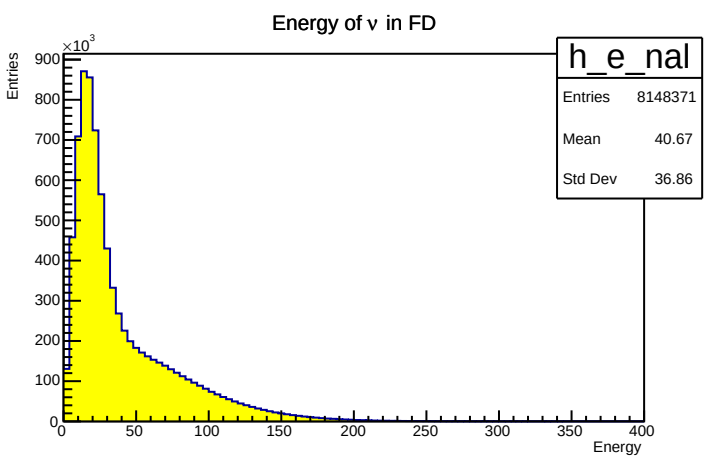

θx .vs. θy of ν1 in SHiP em
h_th_neu1ain
Entries 4079526
Mean x −1.828e−06
Mean y 1.702e−06
Std Dev x 0.005324
Std Dev y 0.005327
θy
θx

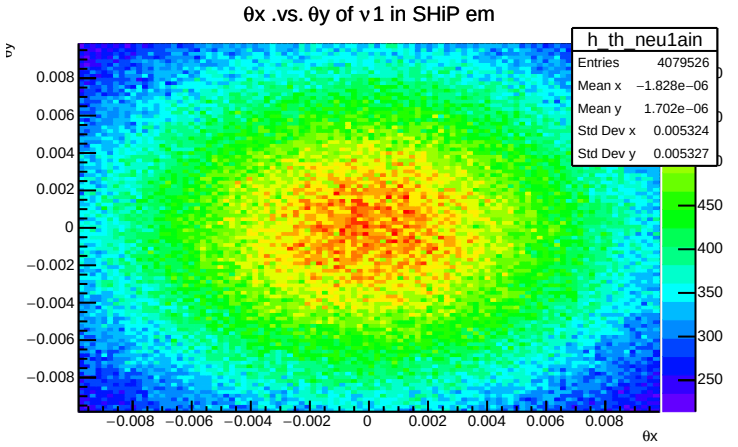

θx .vs. θy of ν2 in SHiP em
h_th_neu2ain
Entries 4068845
Mean x 7.837e−05
Mean y 8.007e−05
Std Dev x0.005323
Std Dev y0.005317
θy
θx

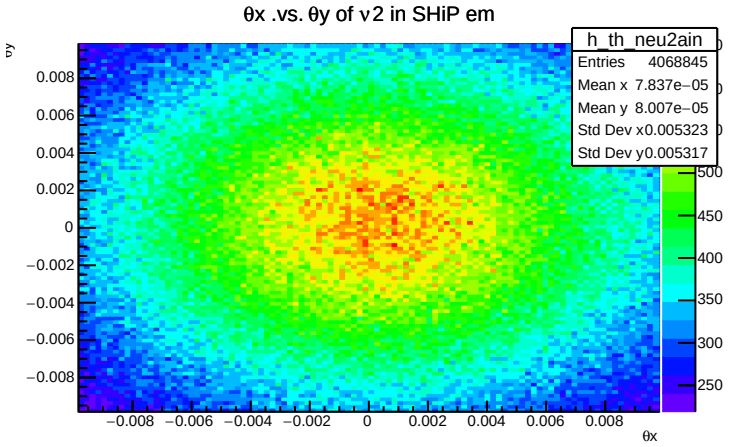

Energy of ν1 in FD
h_e_n1
Entries 4079526
Mean 18.23
Std Dev 9.13
Entries
Energy

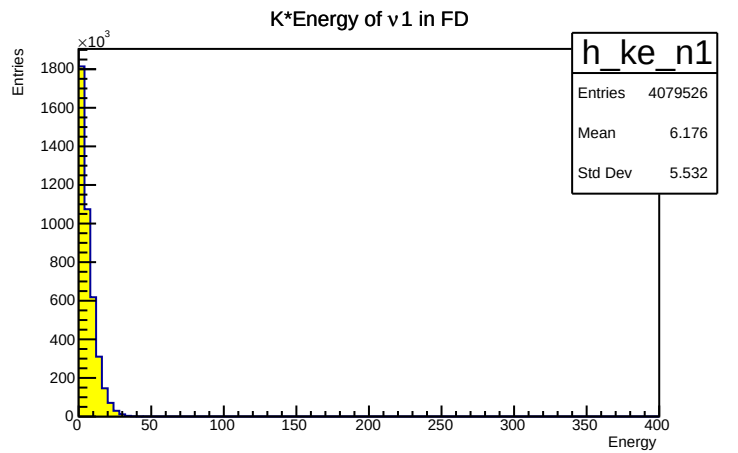

Energy of ν2 in FD
h_e_n2
Entries 4068845
Mean 63.17
Std Dev 40.33
Entries
Energy

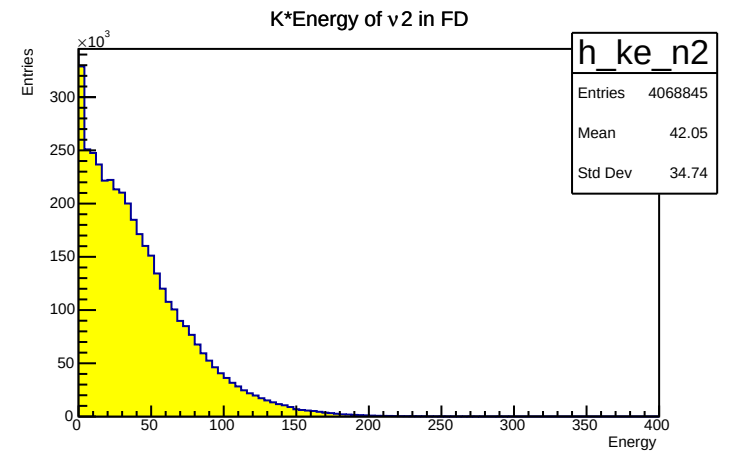

θx .vs. θy of ν in SHiP em
h_th_neuaain
Entries 8148371
Mean x 3.822e−05
Mean y 4.084e−05
Std Dev x0.005324
Std Dev y0.005322
θy
θx

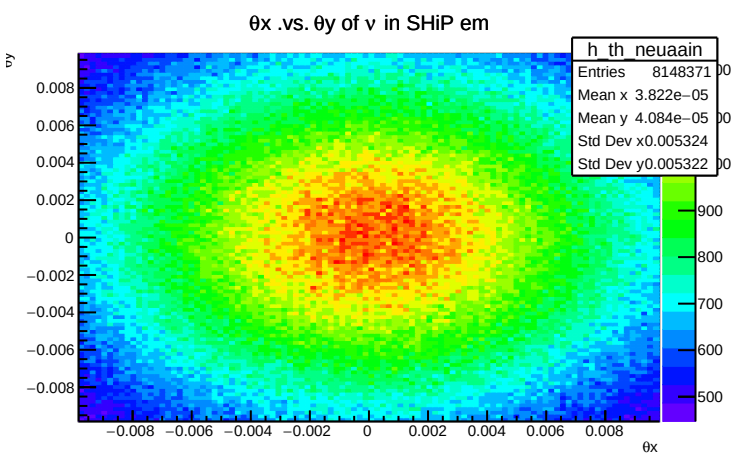

Energy of ν in FD
h_e_nal
Entries 8148371
Mean 40.67
Std Dev 36.86
Entries
Energy

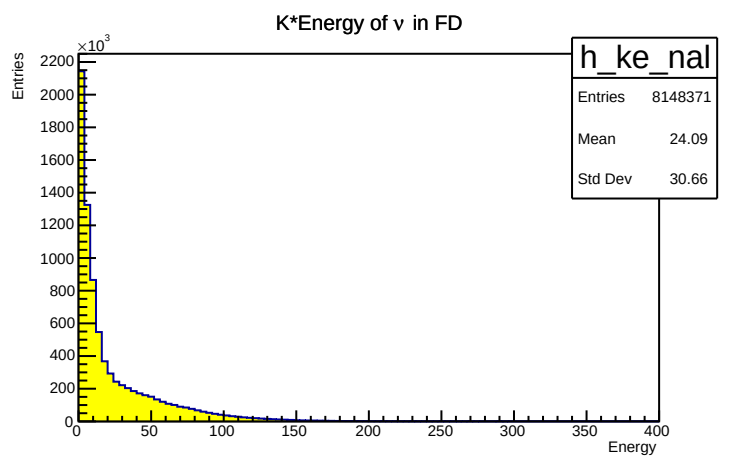

θx .vs. θy of ν1 in SHiP em
h_th_neu1ain
Entries 4079526
Mean x −1.828e−06
Mean y 1.702e−06
Std Dev x 0.005324
Std Dev y 0.005327
θy
θx

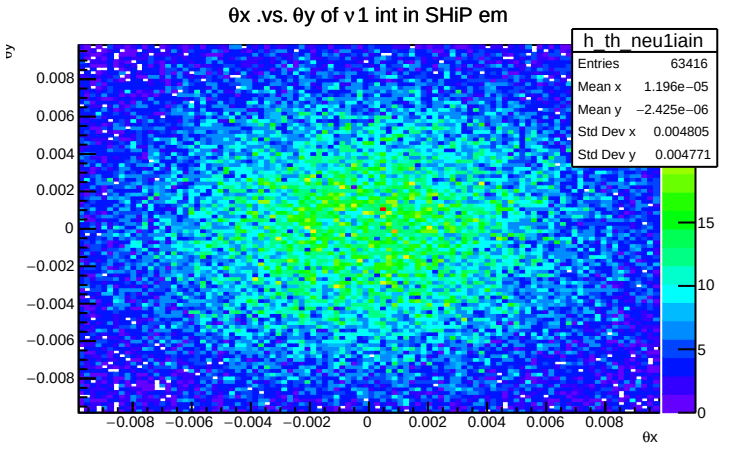

θx .vs. θy of ν2 in SHiP em
h_th_neu2ain
Entries 4068845
Mean x 7.837e−05
Mean y 8.007e−05
Std Dev x0.005323
Std Dev y0.005317
θy
θx

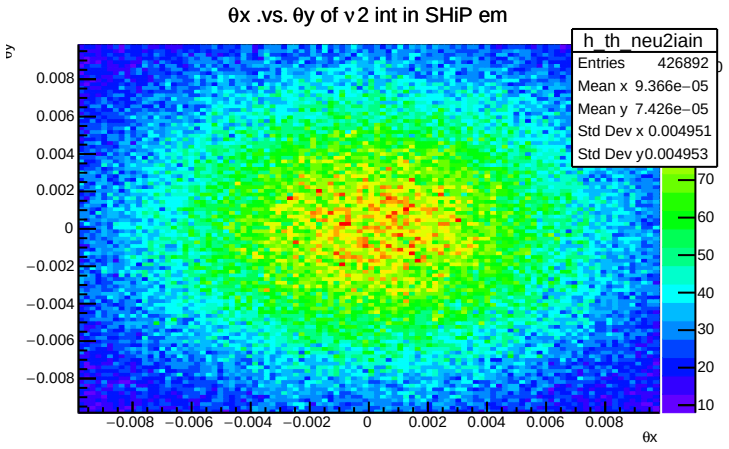

K*Energy of ν1 in FD
h_ke_n1
Entries 4079526
Mean 6.176
Std Dev 5.532
Entries
Energy

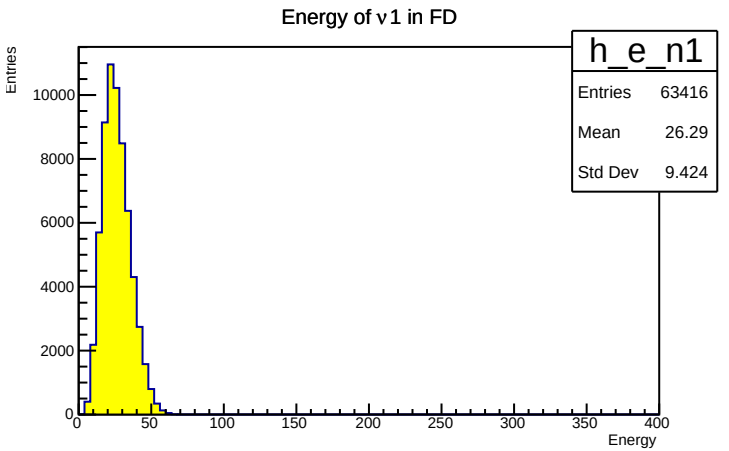

K*Energy of ν2 in FD
h_ke_n2
Entries 4068845
Mean 42.05
Std Dev 34.74
Entries
Energy

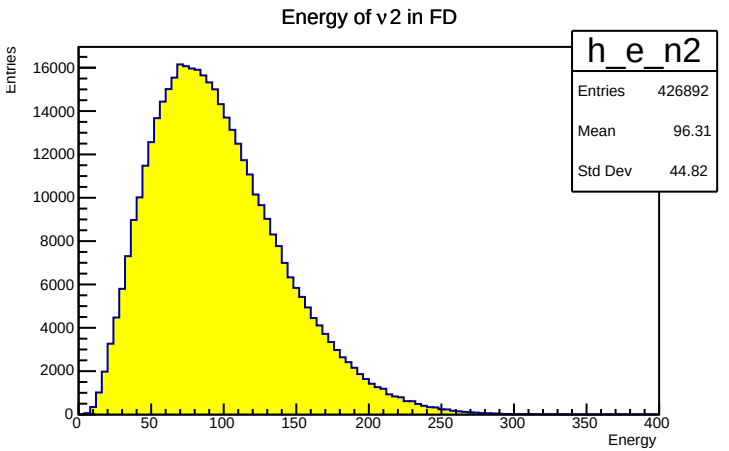

θx .vs. θy of ν in SHiP em
h_th_neuaain
Entries 8148371
Mean x 3.822e−05
Mean y 4.084e−05
Std Dev x0.005324
Std Dev y0.005322
θy
θx

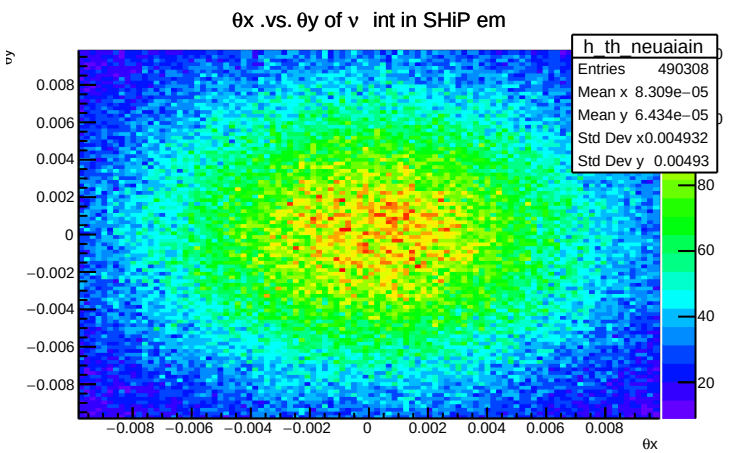

K*Energy of ν in FD
h_ke_nal
Entries 8148371
Mean 24.09
Std Dev 30.66
Entries
Energy

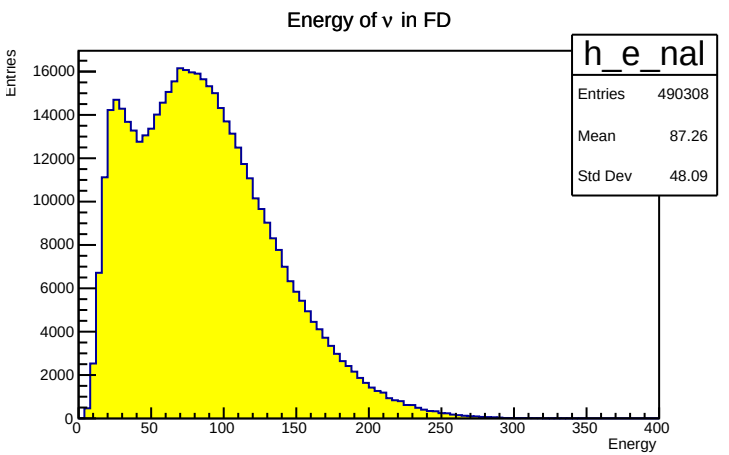

θx .vs. θy of ν 1 int in SHiP em
h_th_neu1iain
Entries 63416
Mean x 1.196e−05
Mean y −2.425e−06
Std Dev x 0.004805
Std Dev y 0.004771
θy
θx

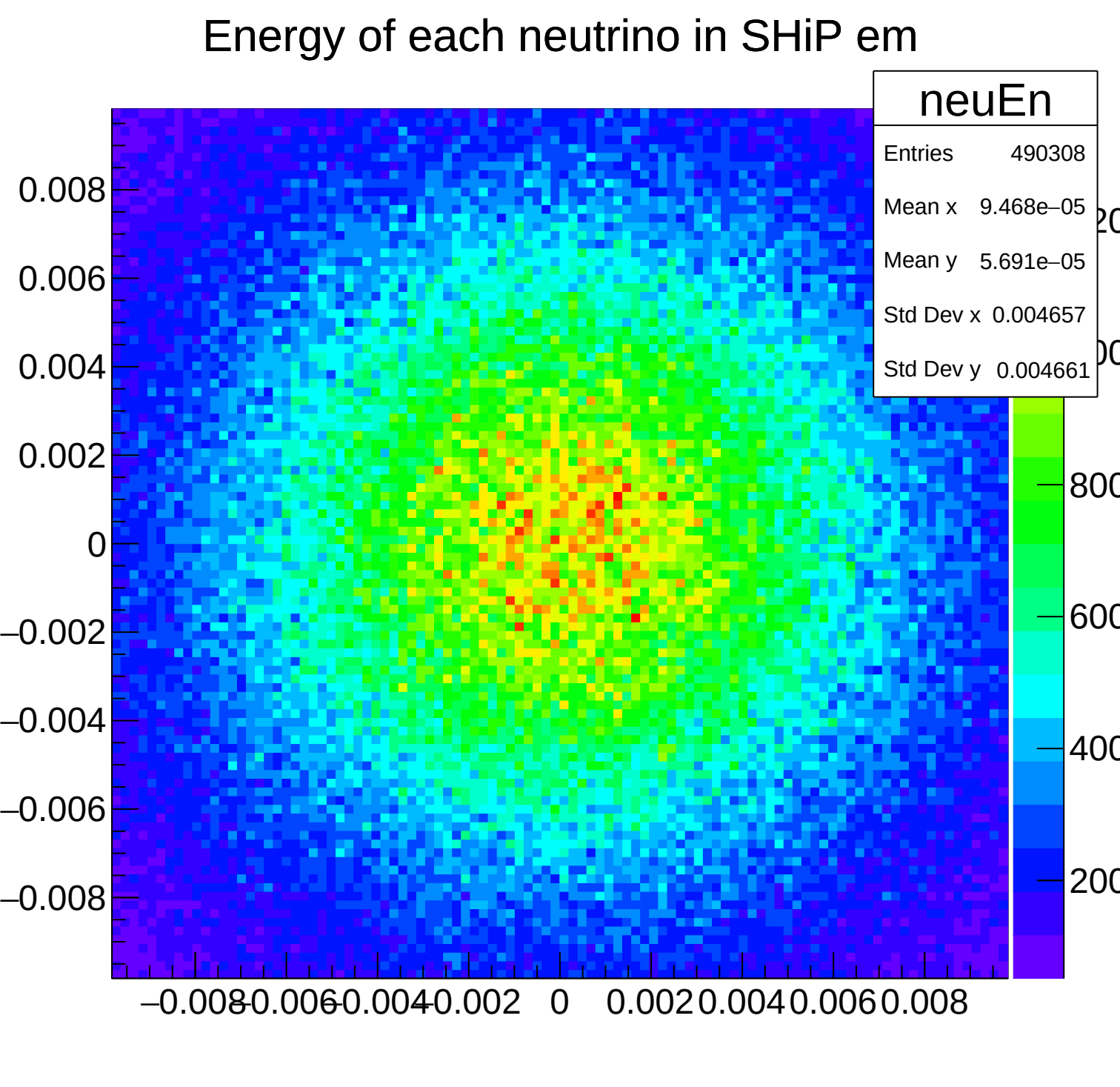

θx .vs. θy of ν 2 int in SHiP em
h_th_neu2iain
Entries 426892
Mean x 9.366e−05
Mean y 7.426e−05
Std Dev x 0.004951
Std Dev y 0.004953
θy
θx


Energy of ν 1 in FD
h_e_n1
Entries 63416
Mean 26.29
Std Dev 9.424
Entries
Energy


Energy of ν 2 in FD
h_e_n2
Entries 426892
Mean 96.31
Std Dev 44.82
Entries
Energy


θx .vs. θy of ν int in SHiP em
h_th_neuaiain
Entries 490308
Mean x 8.309e−05
Mean y 6.434e−05
Std Dev x 0.004932
Std Dev y 0.00493
θy
θx


Energy of ν in FD
h_e_nal
Entries 490308
Mean 87.26
Std Dev 48.09
Entries
Energy


Energy of each neutrino in SHiP em
neuEn
Entries 490308
Mean x 9.468e−05
Mean y 5.691e−05
Std Dev x 0.004657
Std Dev y 0.004661
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.008 −0.006 −0.004 −0.002 0 0.002 0.004 0.006 0.008
800
600
400
200