1GeV

```
▼ electron:
    particle_name: "electron"
    sampling_fraction: 0.10709145385382583
    sampling_fraction_error: 0.000054309890047474515
    sampling_fraction_error_img: 0.000030649342111670029
    sampling_fraction_error_scfi: 0.00005140755626489515
    sampling_fraction_img: 0.007000366965762566
    sampling_fraction_scfi: 0.0999056720668184
    thrown_energy: 1.0000001274814039
```
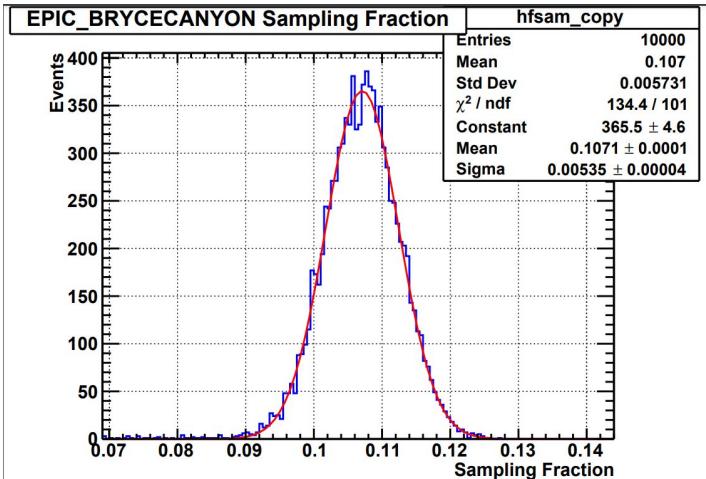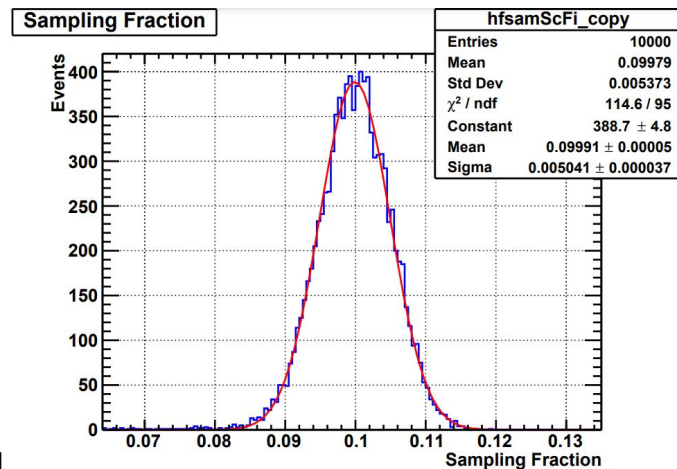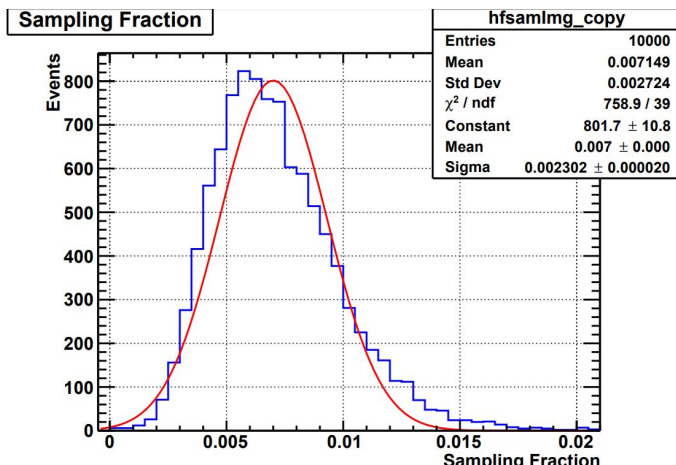
emcal_barrel_electron_fsam

EPIC_BRYCECANYON Sampling Fraction	hfsam_copy	
Entries		10000
Mean		0.107
Std Dev		0.005731
χ^2 / ndf		134.4 / 101
Constant		365.5 $\pm$ 4.6
Mean		0.1071 $\pm$ 0.0001
Sigma		0.00535 $\pm$ 0.00004

emcal_barrel_electron_fsamScFi

Sampling Fraction	hfsamScFi_copy	
Entries		10000
Mean		0.09979
Std Dev		0.005373
χ^2 / ndf		114.6 / 95
Constant		388.7 $\pm$ 4.8
Mean		0.09991 $\pm$ 0.00005
Sigma		0.005041 $\pm$ 0.000037

emcal_barrel_electron_fsamImg

Sampling Fraction	hfsamImg_copy	
Entries		10000
Mean		0.007149
Std Dev		0.002724
χ^2 / ndf		758.9 / 39
Constant		801.7 $\pm$ 10.8
Mean		0.007 $\pm$ 0.000
Sigma		0.002302 $\pm$ 0.000020

5GeV

```
▼ electron:
    particle_name: "electron"
    sampling_fraction: 0.108152877571079
    sampling_fraction_error: 0.0000306672911890173513
    sampling_fraction_error_img: 0.0000143425368127003056
    sampling_fraction_error_scfi: 0.0000275044203403000764
    sampling_fraction_img: 0.006197664790614855
    sampling_fraction_scfi: 0.1020008589245003
    thrown_energy: 5.0000000240330005
```
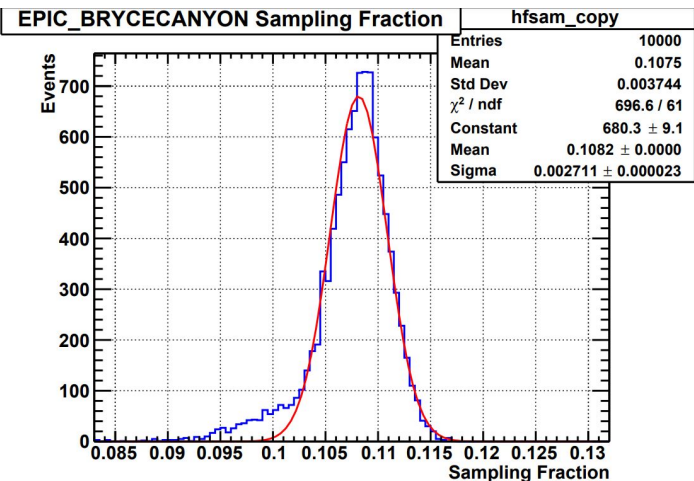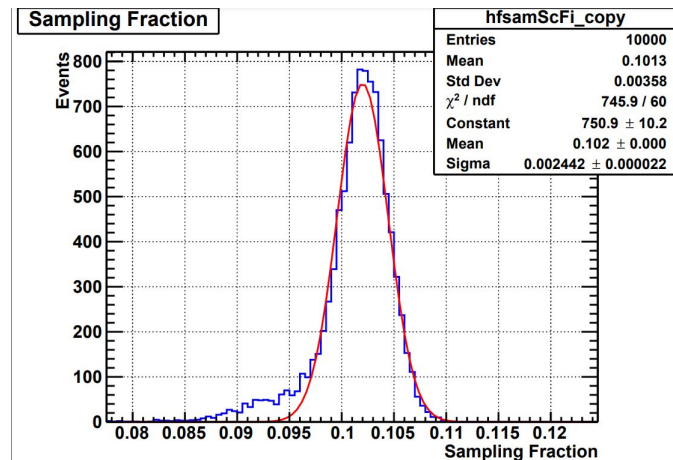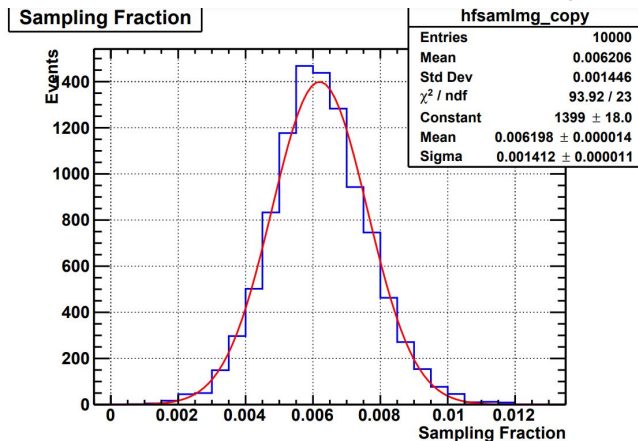
emcal_barrel_electron_fsam

EPIC_BRYCECANYON Sampling Fraction | **hfsam_copy**

Entries	10000
Mean	0.1075
Std Dev	0.003744
χ^2 / ndf	696.6 / 61
Constant	680.3 ± 9.1
Mean	0.1082 ± 0.0000
Sigma	0.002711 ± 0.000023

emcal_barrel_electron_fsamScFi

Sampling Fraction | **hfsamScFi_copy**

Entries	10000
Mean	0.1013
Std Dev	0.00358
χ^2 / ndf	745.9 / 60
Constant	750.9 ± 10.2
Mean	0.102 ± 0.000
Sigma	0.002442 ± 0.000022

emcal_barrel_electron_fsamImg

Sampling Fraction | **hfsamImg_copy**

Entries	10000
Mean	0.006206
Std Dev	0.001446
χ^2 / ndf	93.92 / 23
Constant	1399 ± 18.0
Mean	0.006198 ± 0.000014
Sigma	0.001412 ± 0.000011

10GeV

▼ electron:
    particle_name: "electron"
    sampling_fraction: 0.108053036646139
    sampling_fraction_error: 0.00002481218876289448
    sampling_fraction_error_img: 0.000012492750903868487
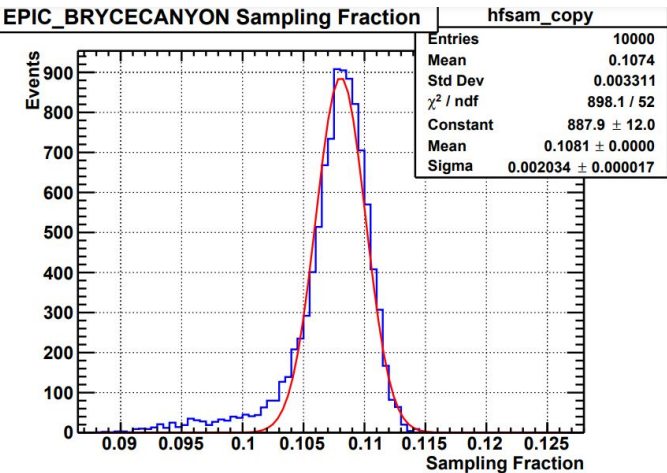   sampling_fraction_error_scfi: 0.00002147770054750894
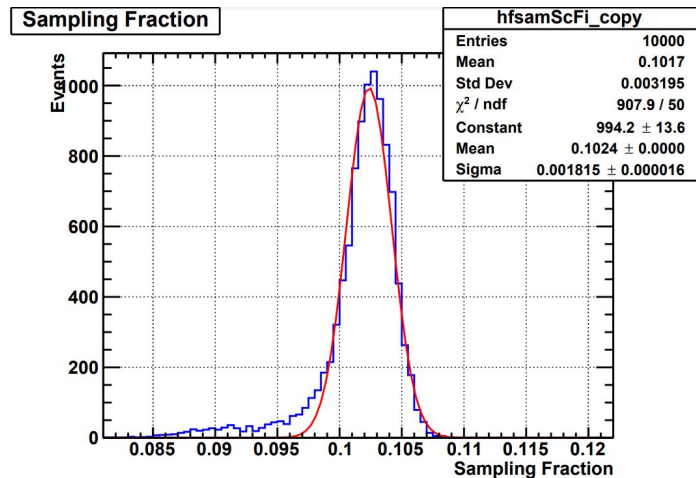   sampling_fraction_img: 0.005736982280784126
    sampling_fraction_scfi: 0.10237537560973592
    thrown_energy: 10.000000008897924

emcal_barrel_electron_fsam

EPIC_BRYCECANYON Sampling Fraction

hfsam_copy	
Entries	10000
Mean	0.1074
Std Dev	0.003311
χ^2 / ndf	898.1 / 52
Constant	887.9 ± 12.0
Mean	0.1081 ± 0.0000
Sigma	0.002034 ± 0.000017

emcal_barrel_electron_fsamScFi

Sampling Fraction

hfsamScFi_copy	
Entries	10000
Mean	0.1017
Std Dev	0.003195
χ^2 / ndf	907.9 / 50
Constant	994.2 ± 13.6
Mean	0.1024 ± 0.0000
Sigma	0.001815 ± 0.000016

emcal_barrel_electron_fsamImg

Sampling Fraction

hfsamImg_copy	
Entries	10000
Mean	0.005721
Std Dev	0.001263
χ^2 / ndf	57.72 / 18
Constant	1606 ± 20.1
Mean	0.005737 ± 0.000012
Sigma	0.001235 ± 0.000009