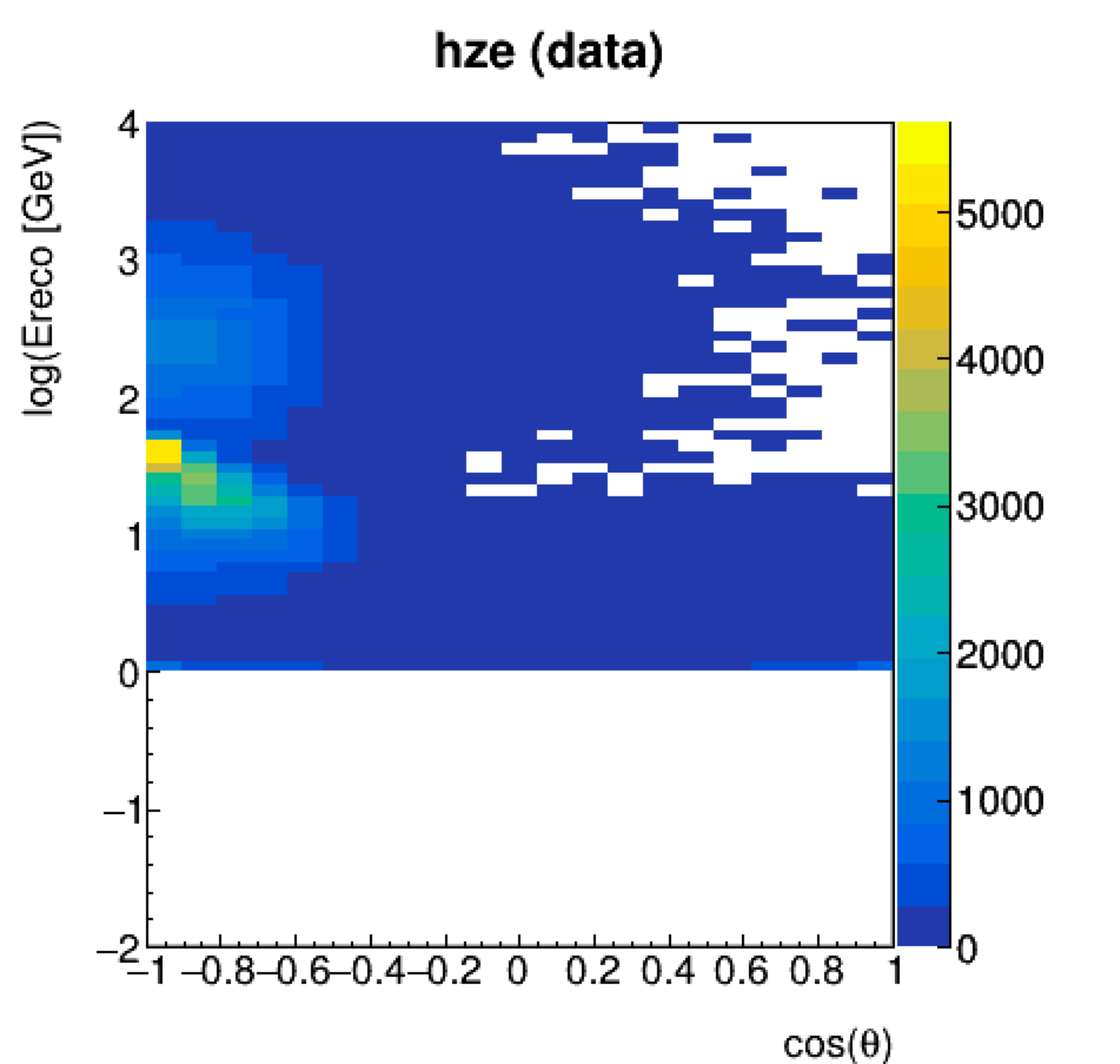
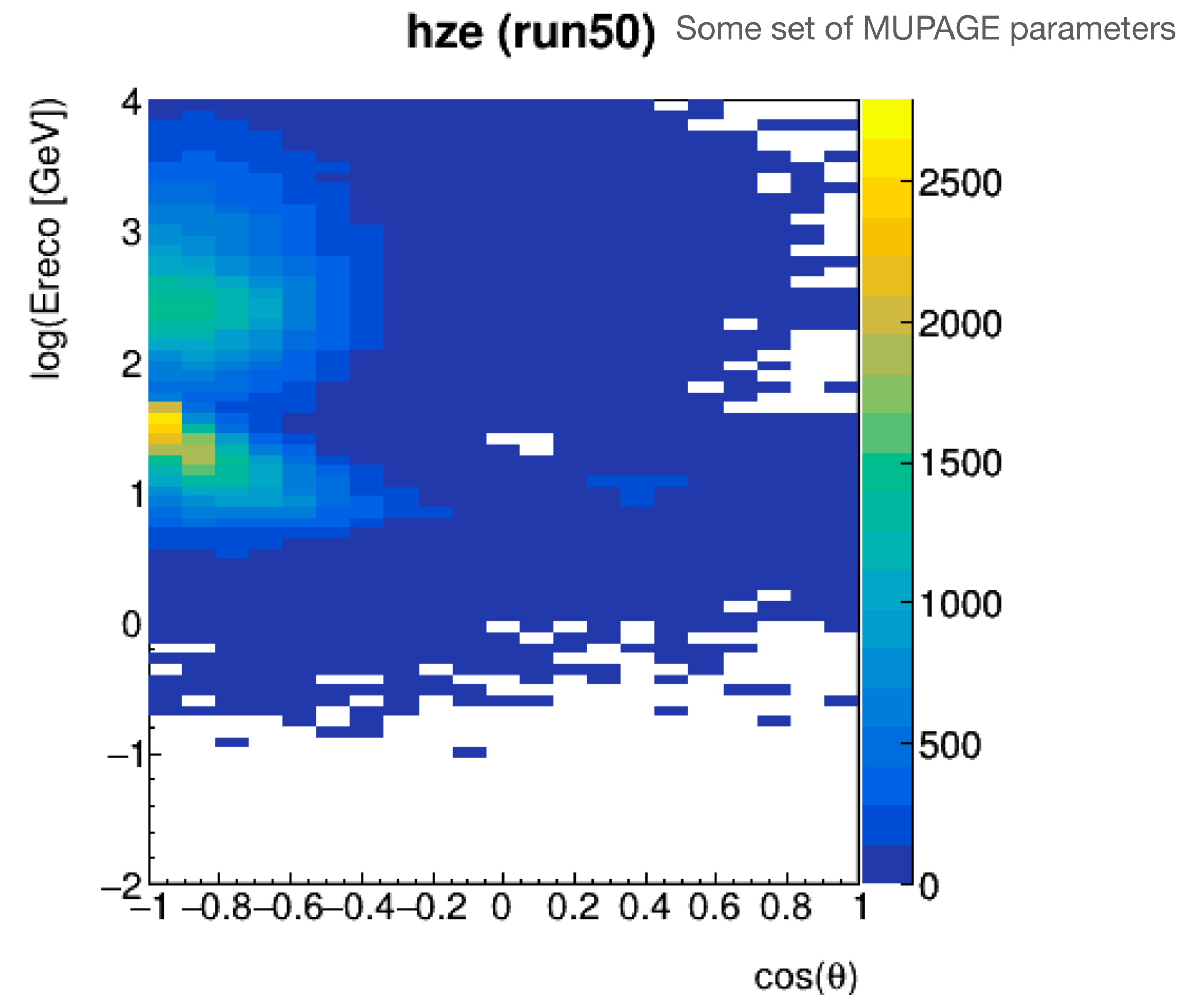
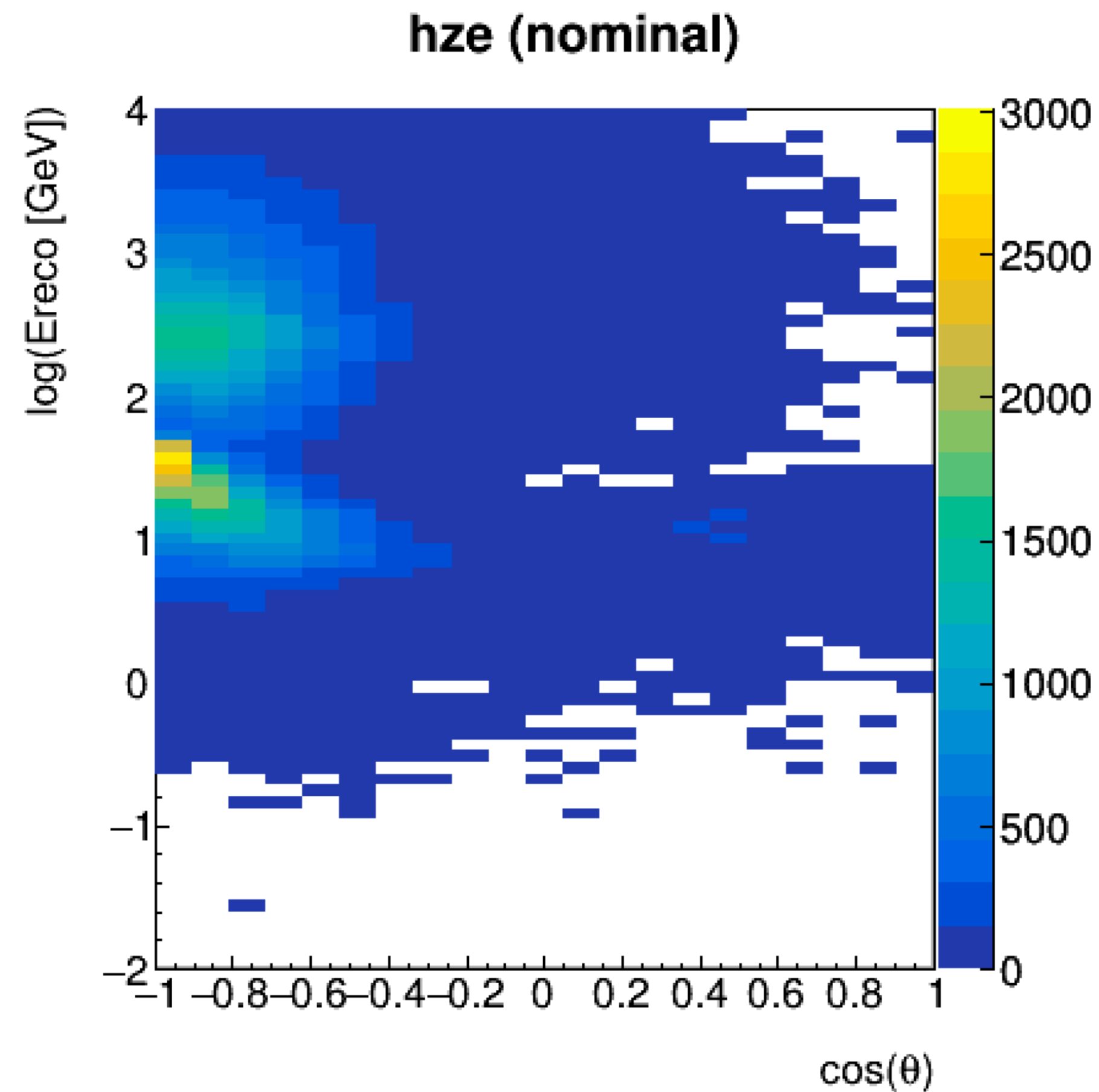


- In comparing histograms for MUPAGE, the sea data run has a cut off in energy

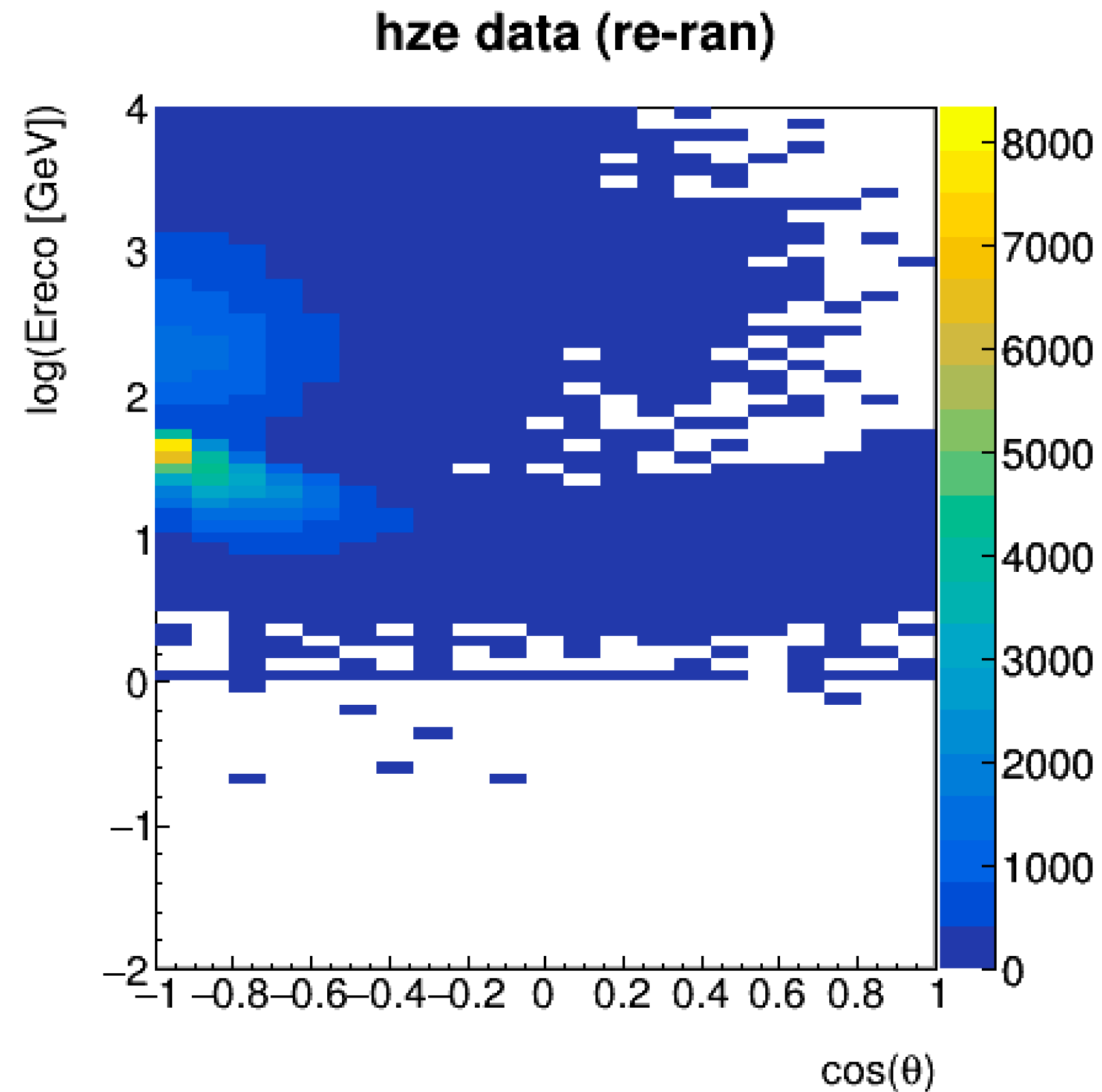


- In comparing histograms for MUPAGE, the sea data run has a cut off in energy, whereas the MC files do not



- After reconstructing the sea data run by hand, with the current track reconstruction chain:

Looks different to the original reconstructed data file, even for $\log E > 0$??



- In comparing the history of the reconstruction from the original reconstructed data and the MC, hard to spot a difference..

Data file (old file, Jpp/v12.1.0 reconstruction)

```
/sps/km3net/users/bofearra/data/44 > JPrintMeta -f /sps/km3net/users/bofearra/data/44/datav5.40.jorcarec.00006118.root bofearra@cca009 ]
JEnergy 12.1.0
JEnergy 5.34/38
JEnergy /pbs/throng/km3net/src/Jpp/v12.1.0/out//Linux/bin//JEnergy -a ./detectors/KM3NeT_00000044_00006783.v5.4_PMTeff.K40_muonCalibration_shift00.detx -f datav5.40.jstart2.000
06118.root -o datav5.40.jenergy.00006118.root -P /pbs/throng/km3net/src/Jpp/v12.0.0/data/J%p.dat -B "\"7e3 570 57 7 0.8 0.09\"" -T "\"-25.0 +25.0\"" -x "\"0 5\"" -R 50 -s "\"1e-3 1e-2
\"" -M 3 -N 1 -d 2 --!
JEnergy KM3NET
JEnergy Linux ccwsge0424 3.10.0-1062.9.1.el7.x86_64 #1 SMP Fri Dec 6 15:49:49 UTC 2019 x86_64
```

Monte Carlo (Jpp/master reco)

```
/sps/km3net/users/bofearra/MUPAGE/ORCA4/test_params/full_space/run_50/mc/atm_muon/KM3NeT_00000044/v5.9/reco > JPrintMeta -f mcv5.9.mupage_10G.sirene.jterbr00006118.jchain.1.root
JMuonEnergy 13.0.2
JMuonEnergy 6.20/04
JMuonEnergy /Jpp/out//Linux/bin//JMuonEnergy -a /pbs/throng/km3net/detectors/KM3NeT_00000044_20190726.detx -f mcv5.9.mupage_10G.sirene.jterbr00006118.jstart2.1.root -o mcv5.9.m
upage_10G.sirene.jterbr00006118.jenergy.1.root -P /Jpp/data//J%p.dat -@ "\"numberOfPrefits = 1; resolution = 0.01; ZMin_m = -3.0; EMin_log = 0.0; TMax_ns = +25.0; EMax_log = 7.0
; TMin_ns = -25.0; R_Hz = 7.0e3; mestimator = 3; roadWidth_m = 50.0; \"" -d 2 --!
JMuonEnergy KM3NET
JMuonEnergy Linux ccwsge0870 3.10.0-1127.10.1.el7.x86_64 #1 SMP Wed Jun 3 14:28:03 UTC 2020 x86_64
```

- In comparing the history of the reconstruction from the original reconstructed data and the MC, hard to spot a difference..

Data file (old file, Jpp/v12.1.0 reconstruction)

```
/sps/km3net/users/bofearra/data/44 > JPrintMeta -f /sps/km3net/users/bofearra/data/44/datav5.40.jorcarec.00006118.root bofearra@cca009 ]
JEnergy 12.1.0
JEnergy 5.34/38
JEnergy /pbs/throng/km3net/src/Jpp/v12.1.0/out//Linux/bin//JEnergy -a ./detectors/KM3NeT_00000044_00006783.v5.4_PMTeff.K40_muonCalibration_shift00.detx -f datav5.40.jstart2.000
06118.root -o datav5.40.jenergy.00006118.root -P /pbs/throng/km3net/src/Jpp/v12.0.0/data/J%p.dat -B "\"7e3 570 57 7 0.8 0.09\"" -T "\"-25.0 +25.0\"" -x "\"0 5\"" -R 50 -s "\"1e-3 1e-2
\"" -M 3 -N 1 -d 2 --!
JEnergy KM3NET
JEnergy Linux ccwsge0424 3.10.0-1062.9.1.el7.x86_64 #1 SMP Fri Dec 6 15:49:49 UTC 2019 x86_64
```

Monte Carlo (Jpp/master reco)

```
/sps/km3net/users/bofearra/MUPAGE/ORCA4/test_params/full_space/run_50/mc/atm_muon/KM3NeT_00000044/v5.9/reco > JPrintMeta -f mcv5.9.mupage_10G.sirene.jterbr00006118.jchain.1.root
t
JMuonEnergy 13.0.2
JMuonEnergy 6.20/04
JMuonEnergy /Jpp/out//Linux/bin//JMuonEnergy -a /pbs/throng/km3net/detectors/KM3NeT_00000044_20190726.detx -f mcv5.9.mupage_10G.sirene.jterbr00006118.jstart2.1.root -o mcv5.9.m
upage_10G.sirene.jterbr00006118.jenergy.1.root -P /Jpp/data//J%p.dat -@ "\"numberOfPrefits = 1; resolution = 0.01; ZMin_m = -3.0; EMin_log = 0.0; TMax_ns = +25.0; EMax_log = 7.0
; TMin_ns = -25.0; R_Hz = 7.0e3; mestimator = 3; roadWidth_m = 50.0; \"" -d 2 --!
JMuonEnergy KM3NET
JMuonEnergy Linux ccwsge0870 3.10.0-1127.10.1.el7.x86_64 #1 SMP Wed Jun 3 14:28:03 UTC 2020 x86_64
```

Is this input parameter being parsed properly in Jpp/master?