

Data set

- MC

[/data/scratch/userspace/pretz/daqsim-reconstruction/output/daqsim-baseline-take4](#)

- Data

All run of 2016 & 2017 in the Crab strip

Quality cuts

- $\text{rec.angleFitStatus} == 0$
- $\text{rec.coreFitStatus} == 0$
- $\text{rec.nChAvail} \geq 700$
- $\text{rec.zenithAngle} < 0.785$
- $0.05 * \text{rec.nChAvail} < \text{rec.nHitSP20}$
- $\text{rec.nHitSP20} \leq 1.10 * \text{rec.nChAvail}$
- G/H cuts: [/data/scratch/userspace/pretz/scrappy-platypus-dev/optimize-PINCLICompactOptimizer_FHitNNEnergyBinningLogicCFS/cuts-filtered.cuts](#)

Script used

- Detector response

http://hawclava.umd.edu/zhampel/hawc/website/UNFOLDING/detector_response.php

- Reco extractor

http://hawclava.umd.edu/zhampel/hawc/website/UNFOLDING/reco_extractor.php

- PyUnfold

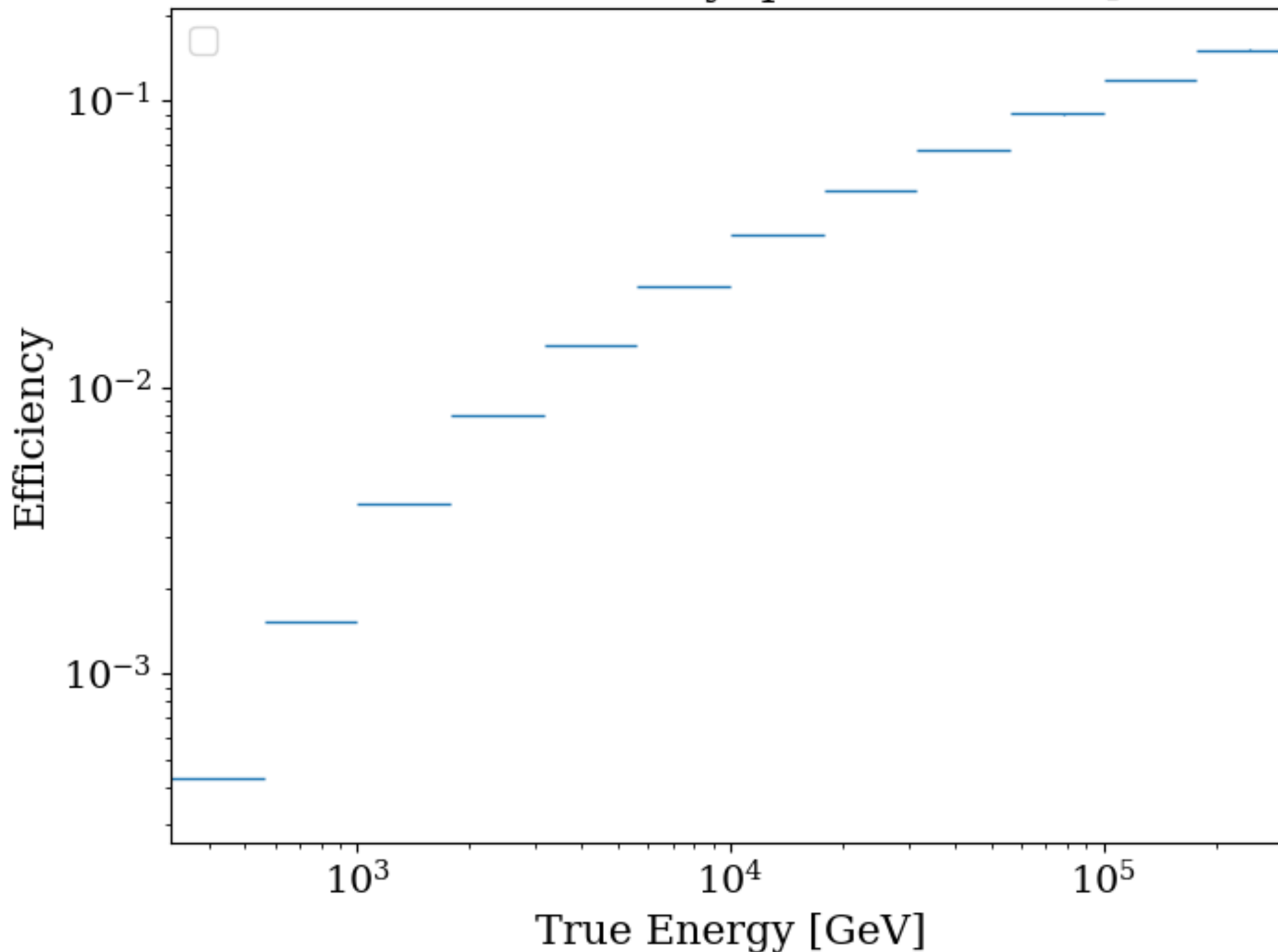
<https://jrbourbeau.github.io/pyunfold/>

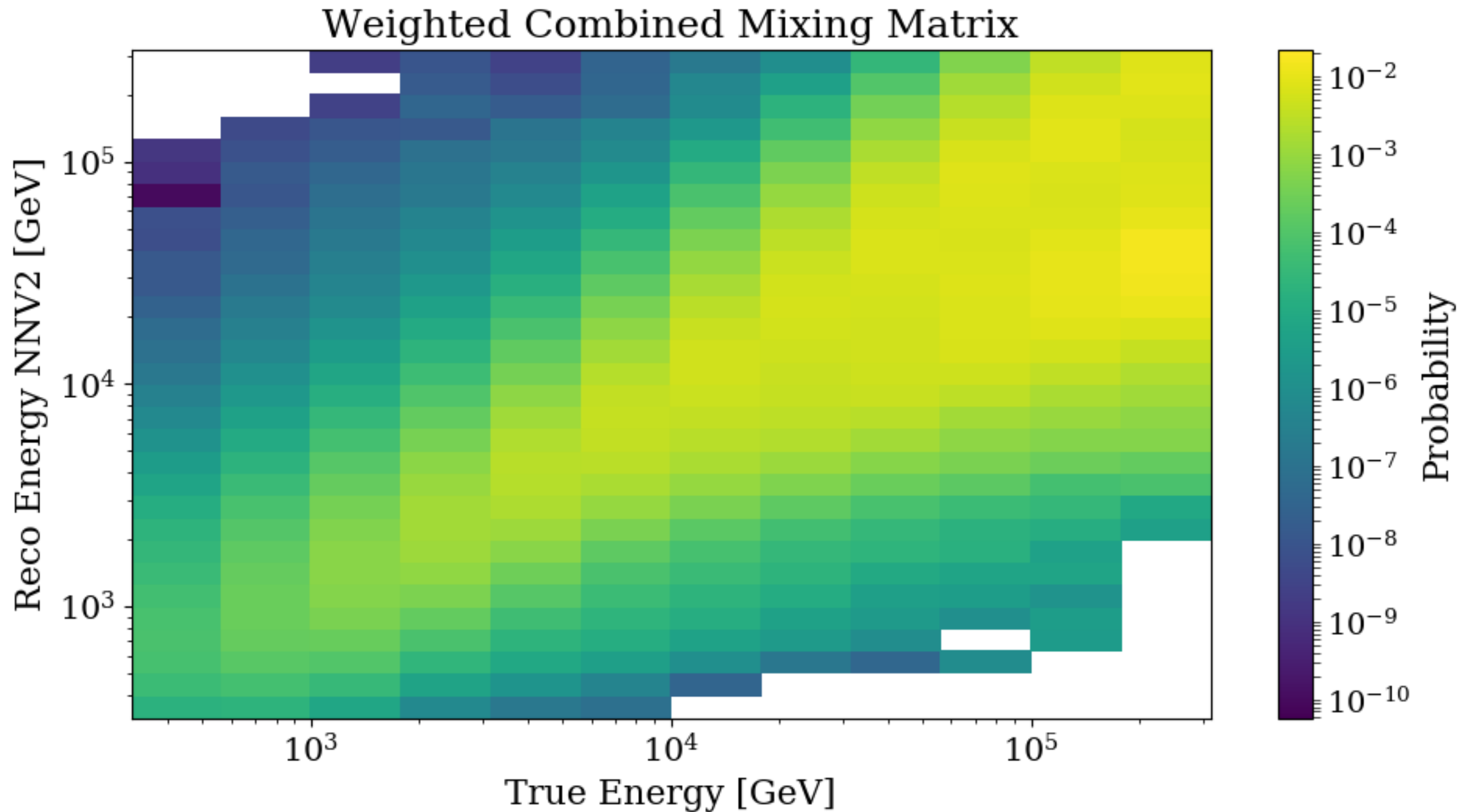
NNV2

~Efficiency,

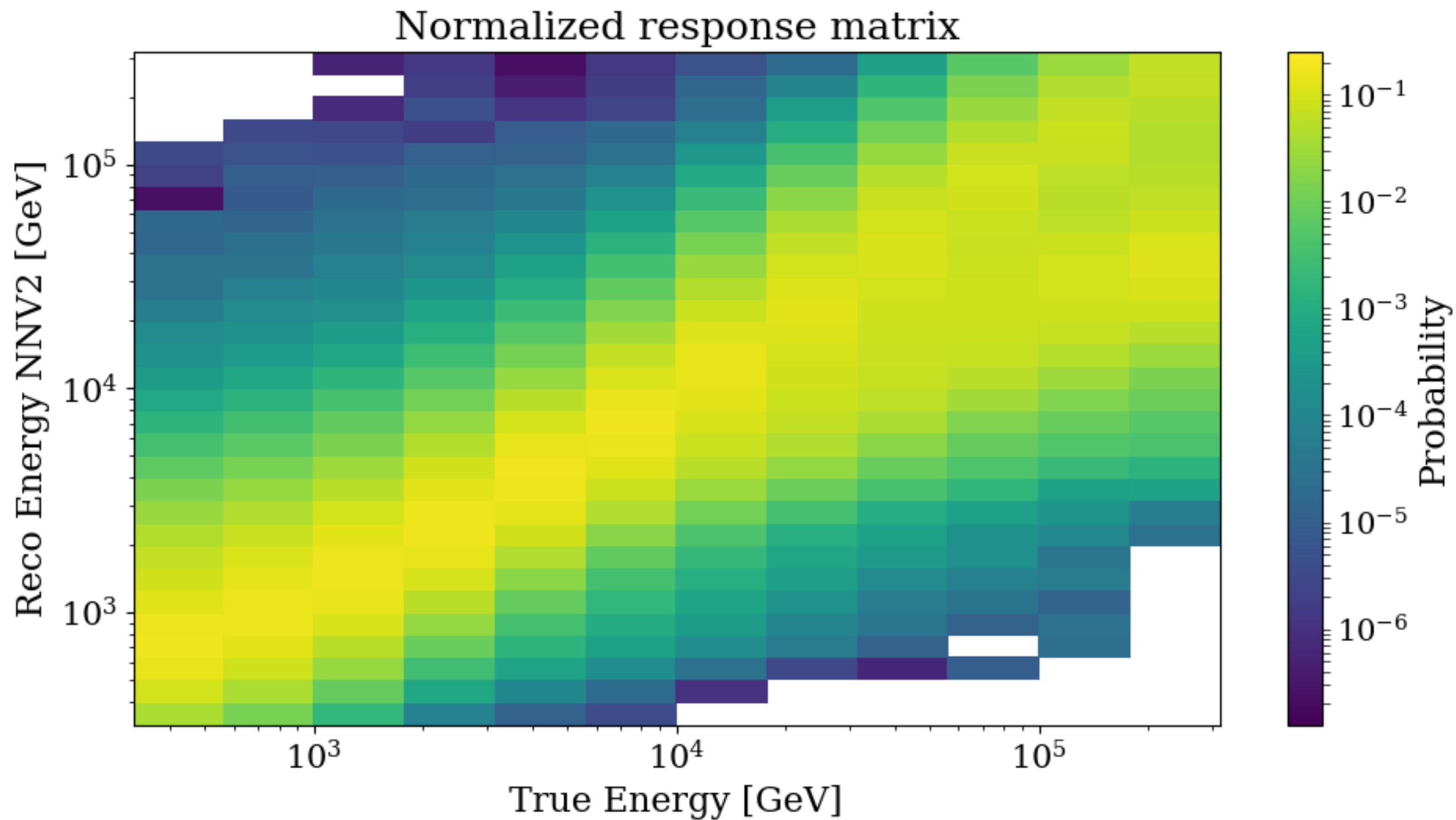
script: Detector response

Non-Normed Combined Efficiency $\theta \in [0.0, 45.0)^\circ$

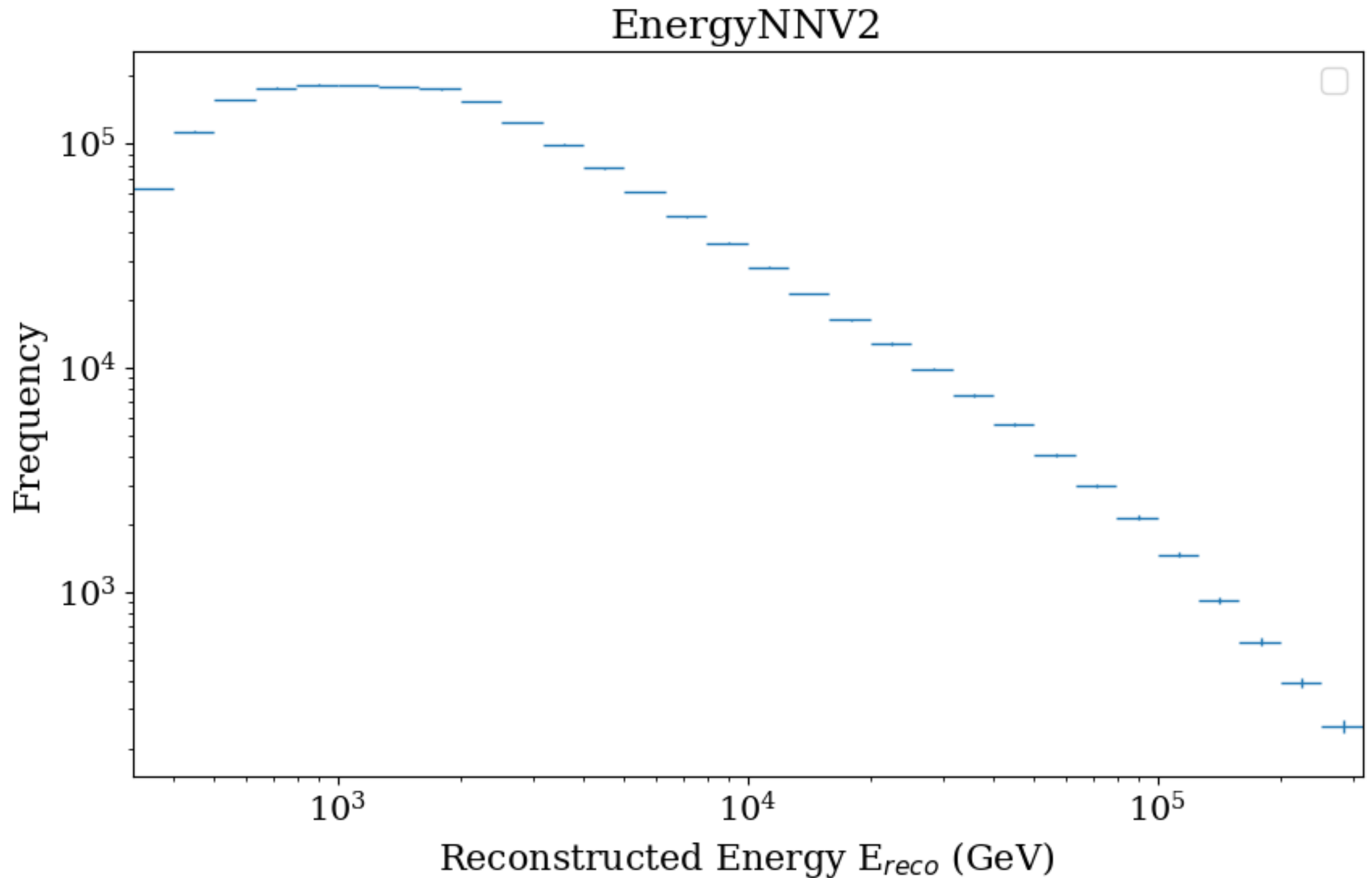


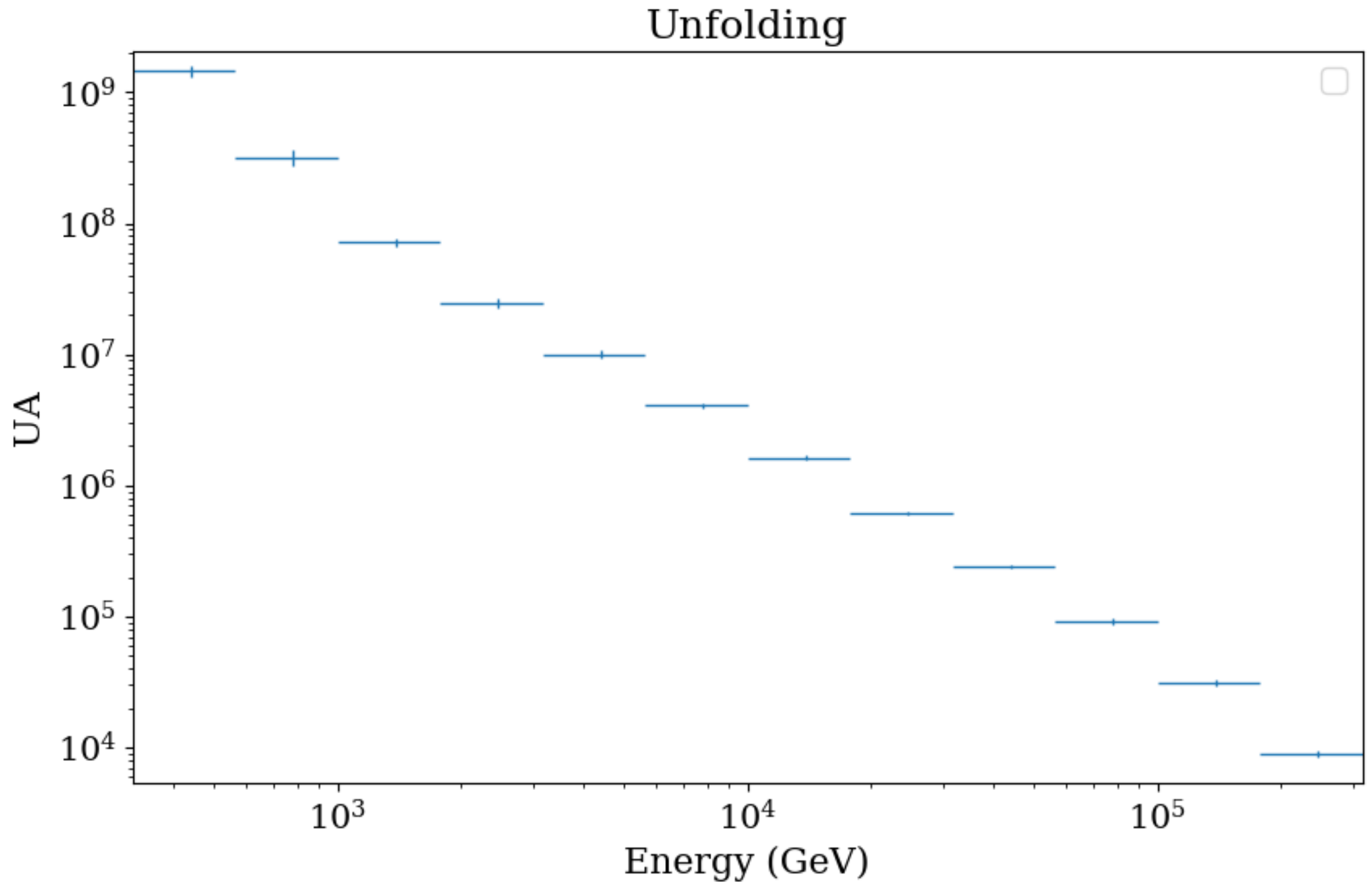


Normalized Response Matrix, script: Detector response



MC





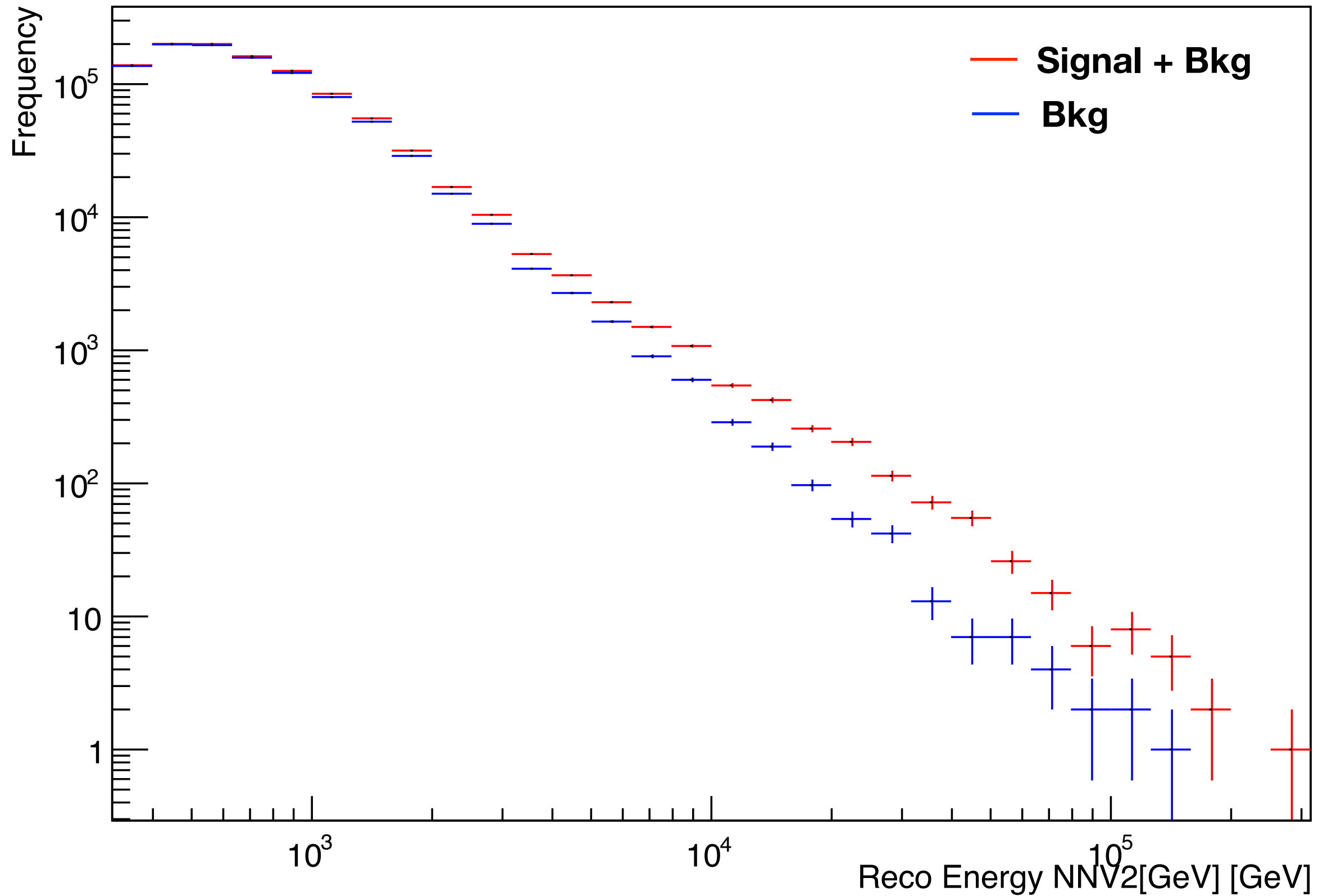
Data ~2016 & 2017

Observed

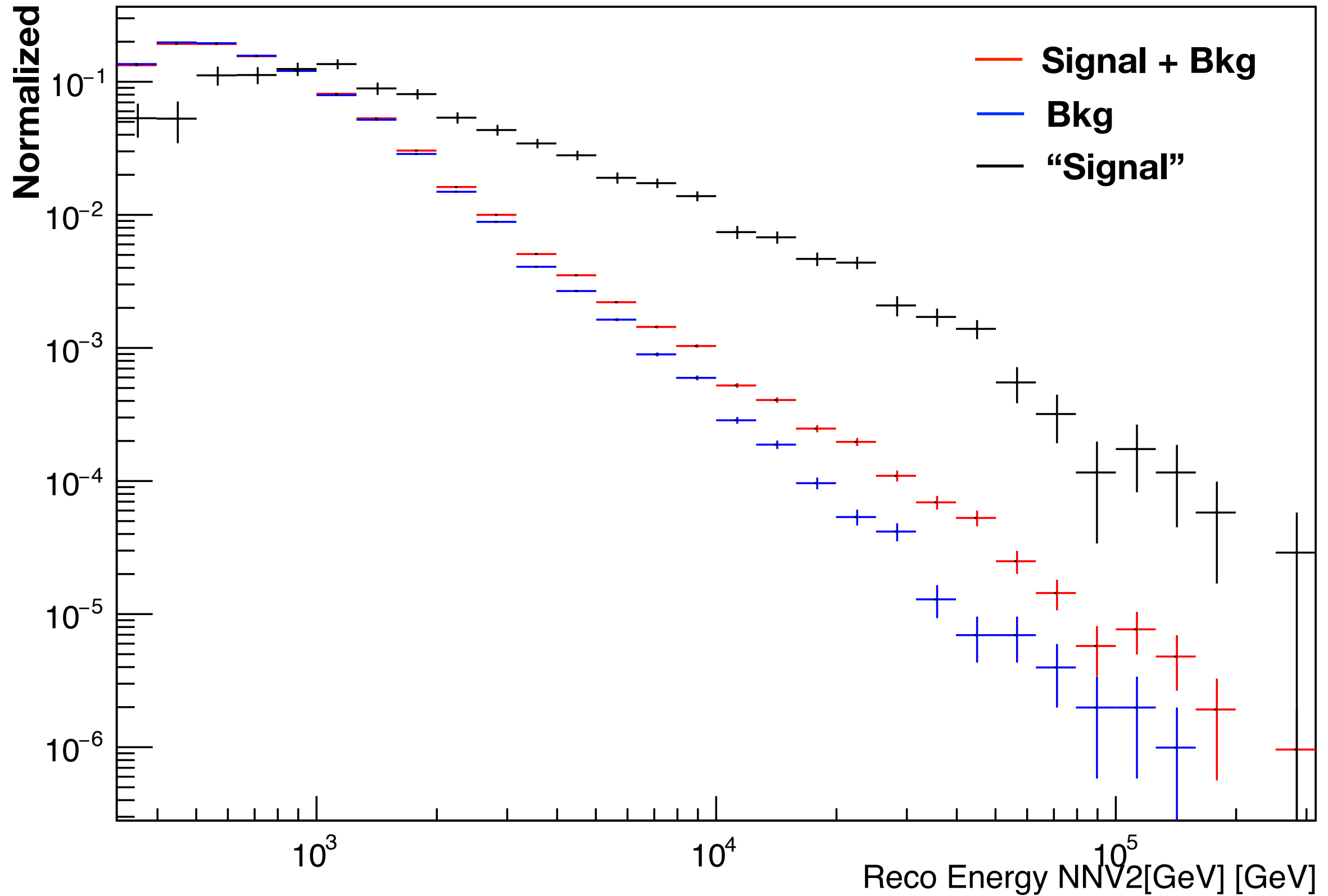
2016-2017

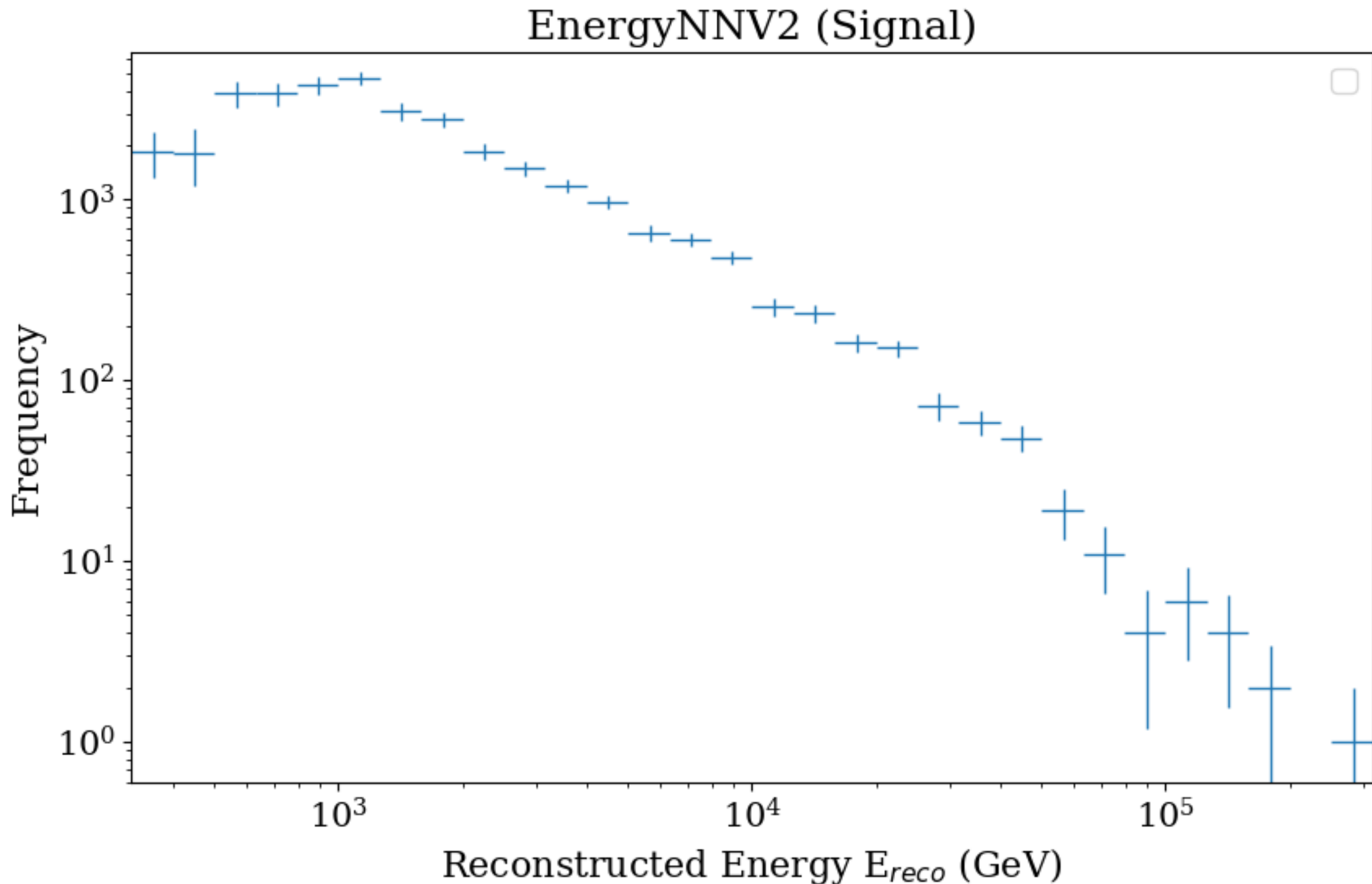
script: Reco Extractor

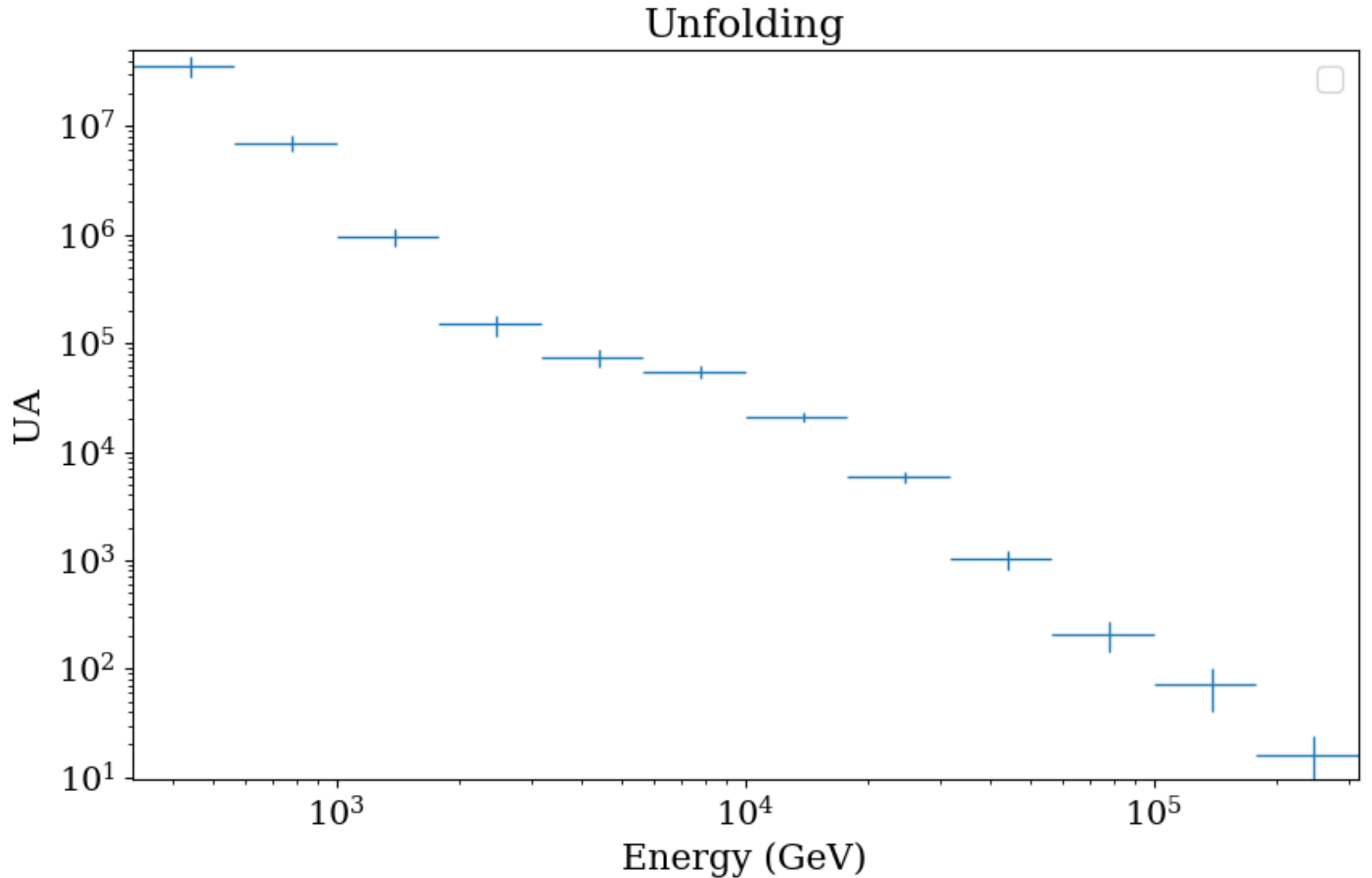
EnergyNNV2



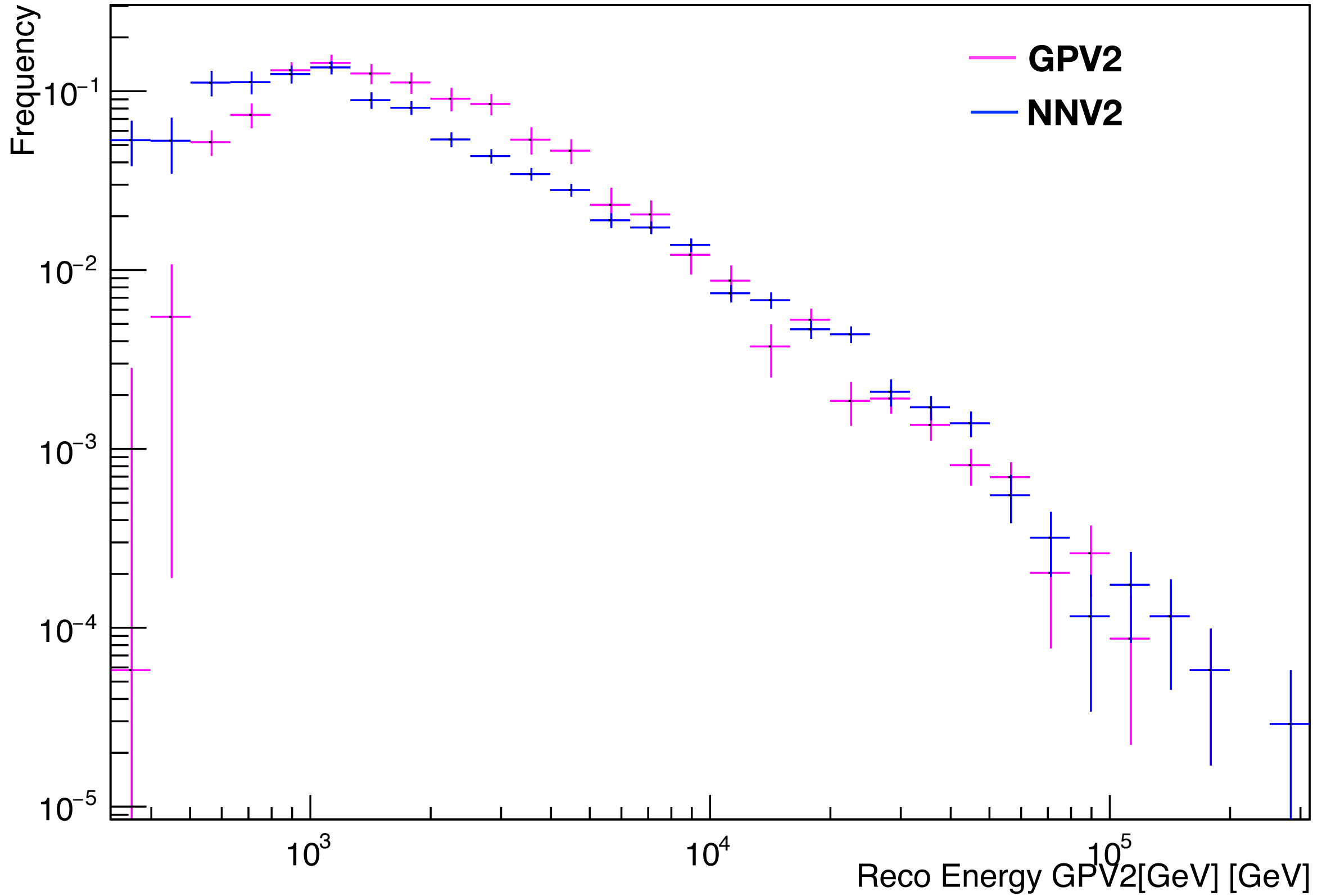
Observed 2016-2017 script: Reco Extractor EnergyNNV2







NN & GP



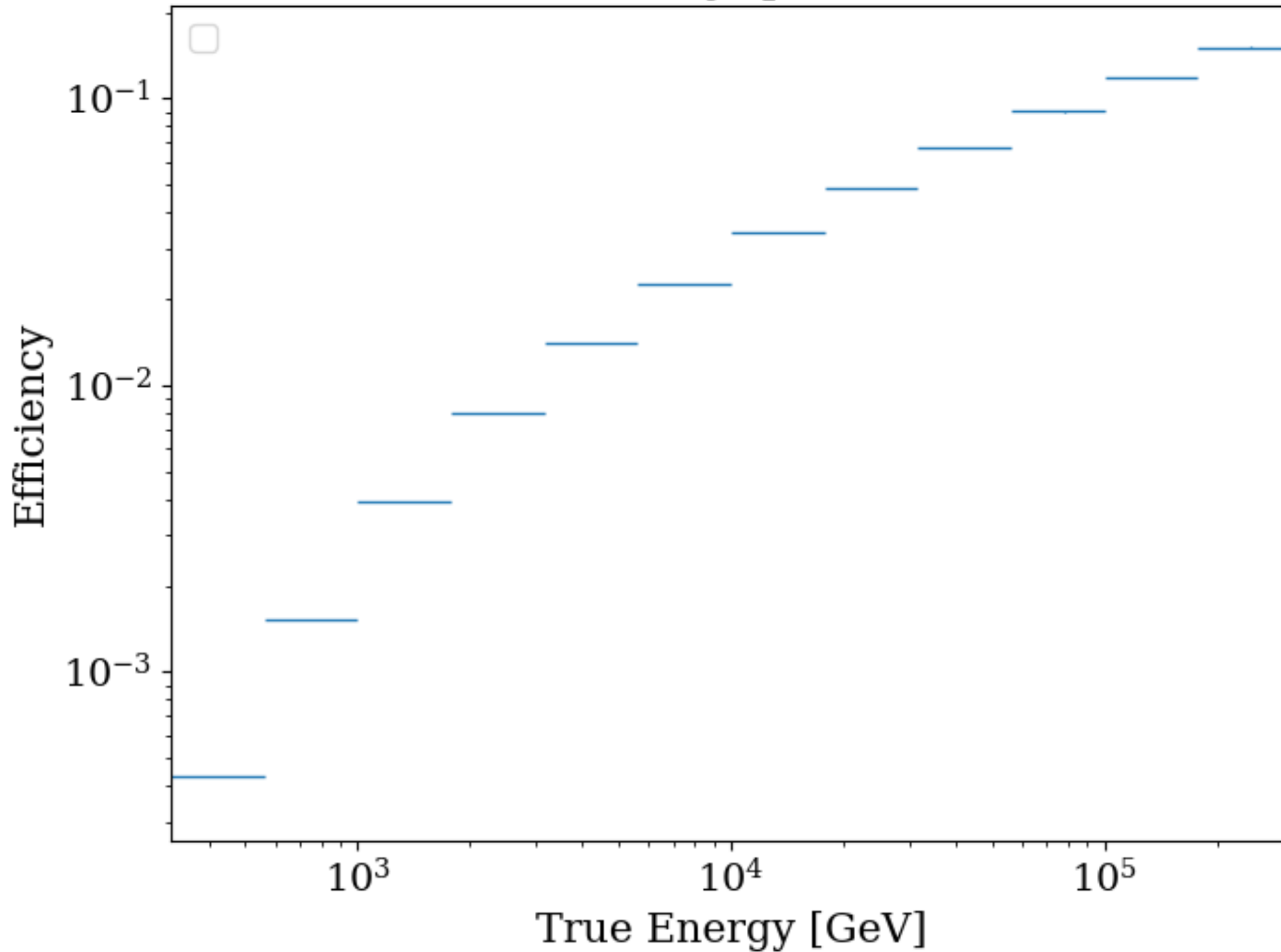
Backslide

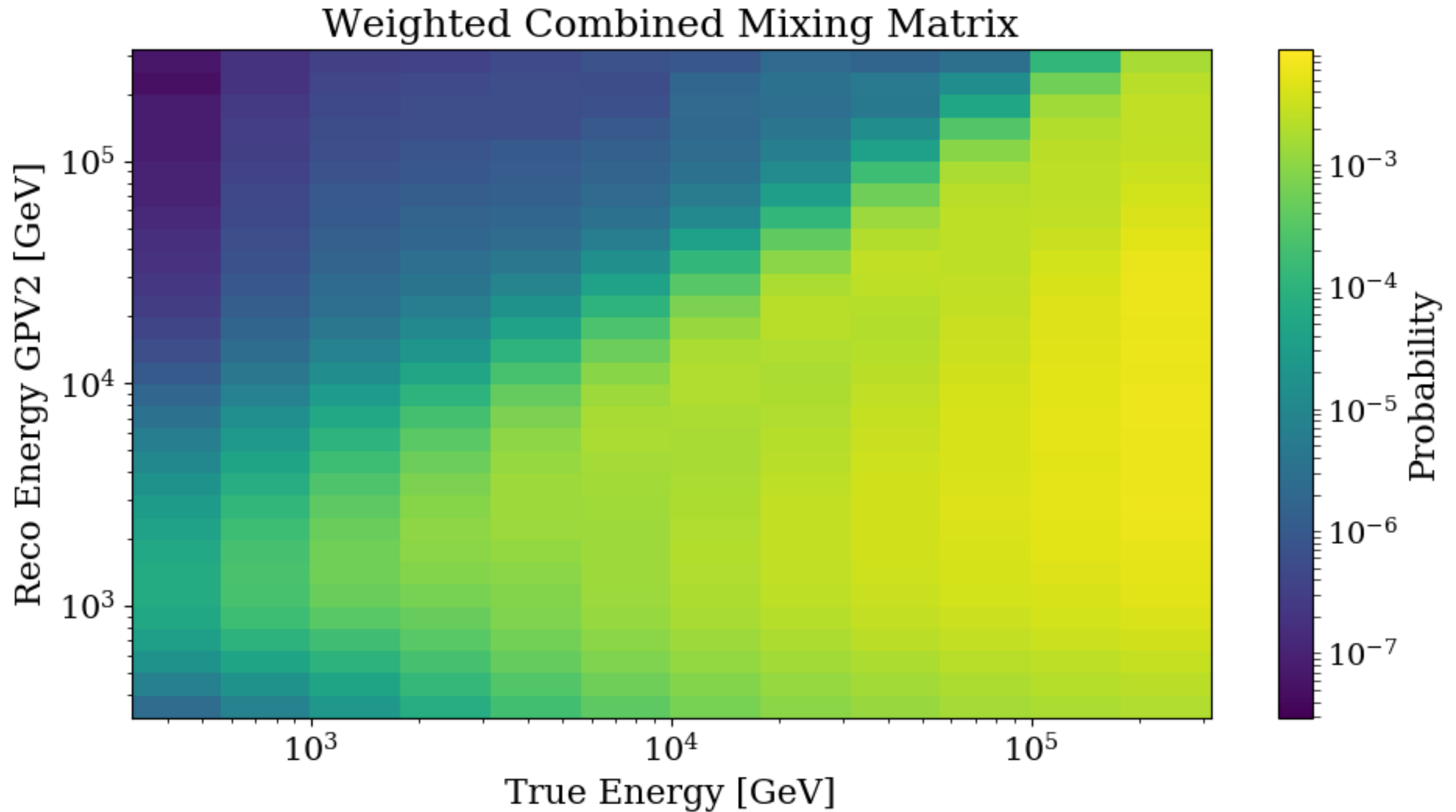
GPV2

~Efficiency,

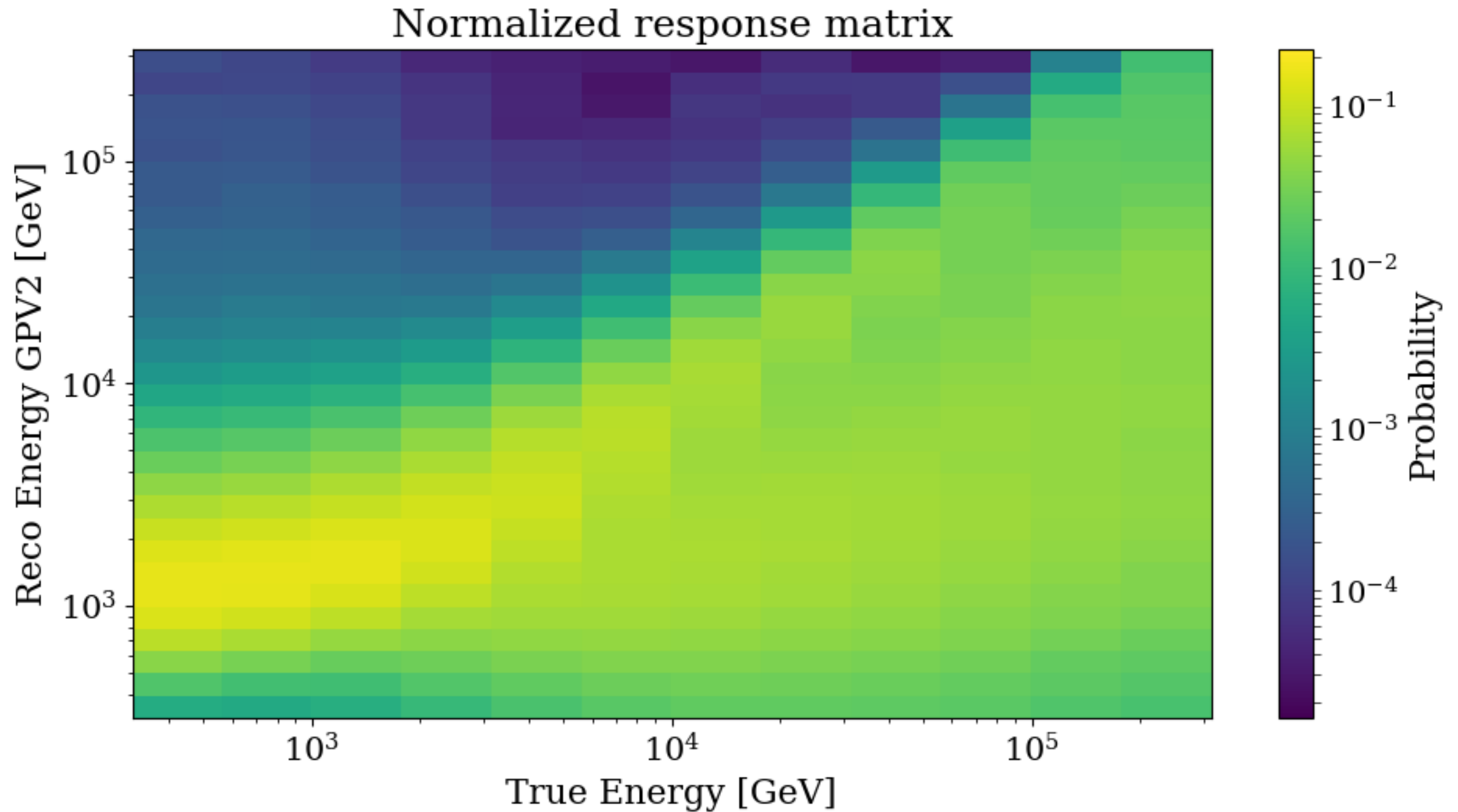
script: Detector response

Non-Normed Combined Efficiency $\theta \in [0.0, 45.0)^\circ$

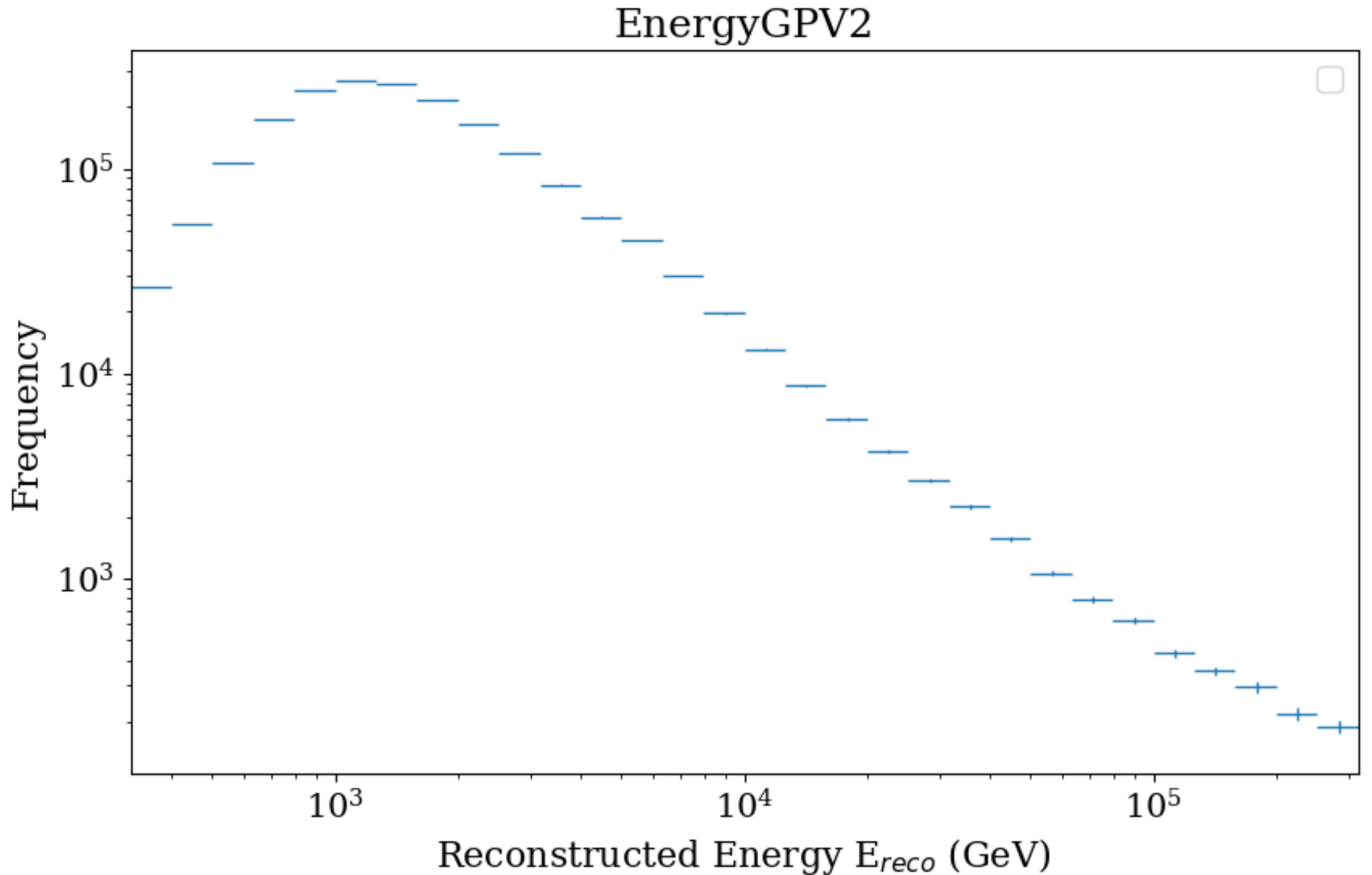


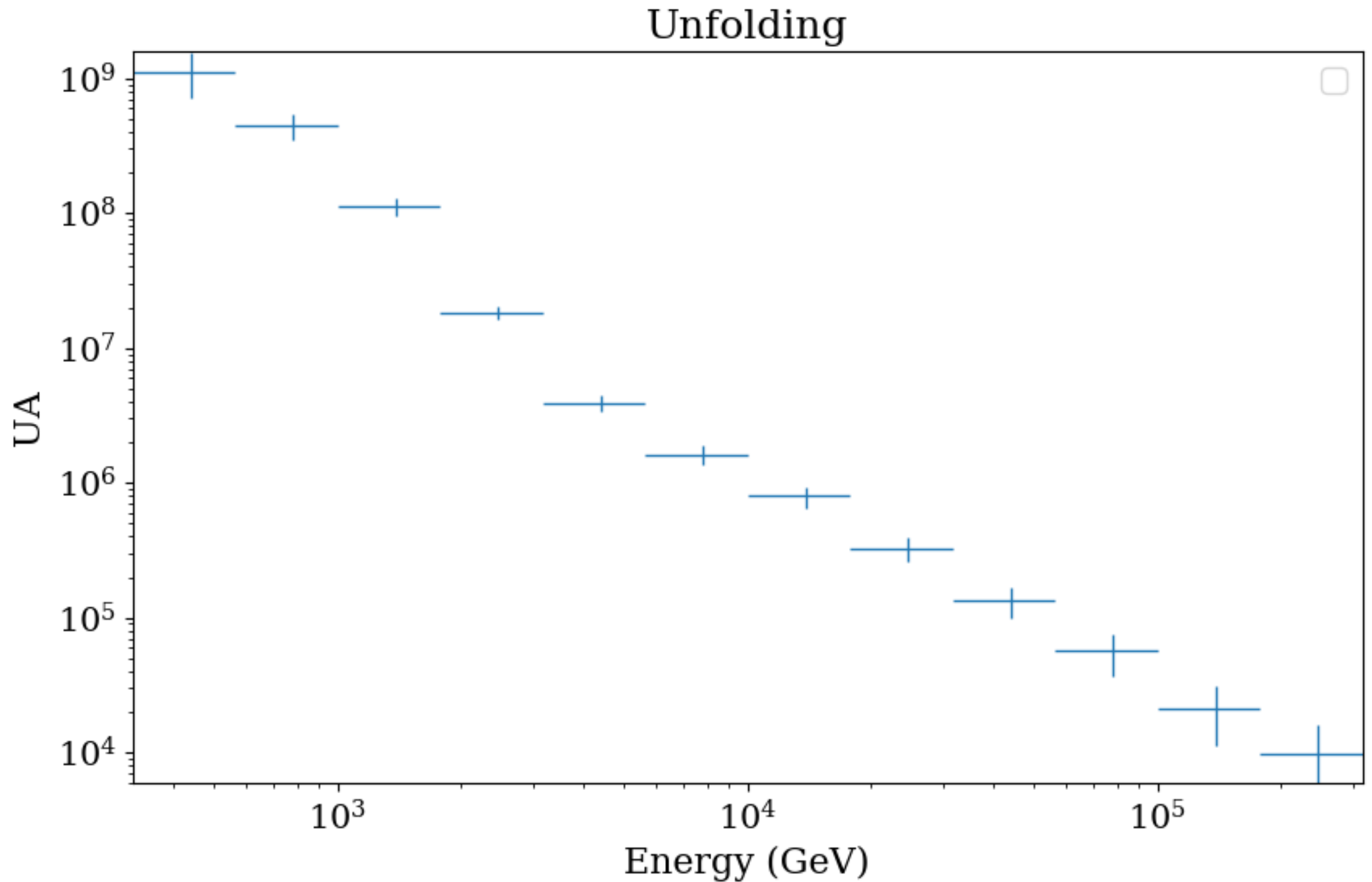


Normalized Response Matrix, script: Detector response



MC

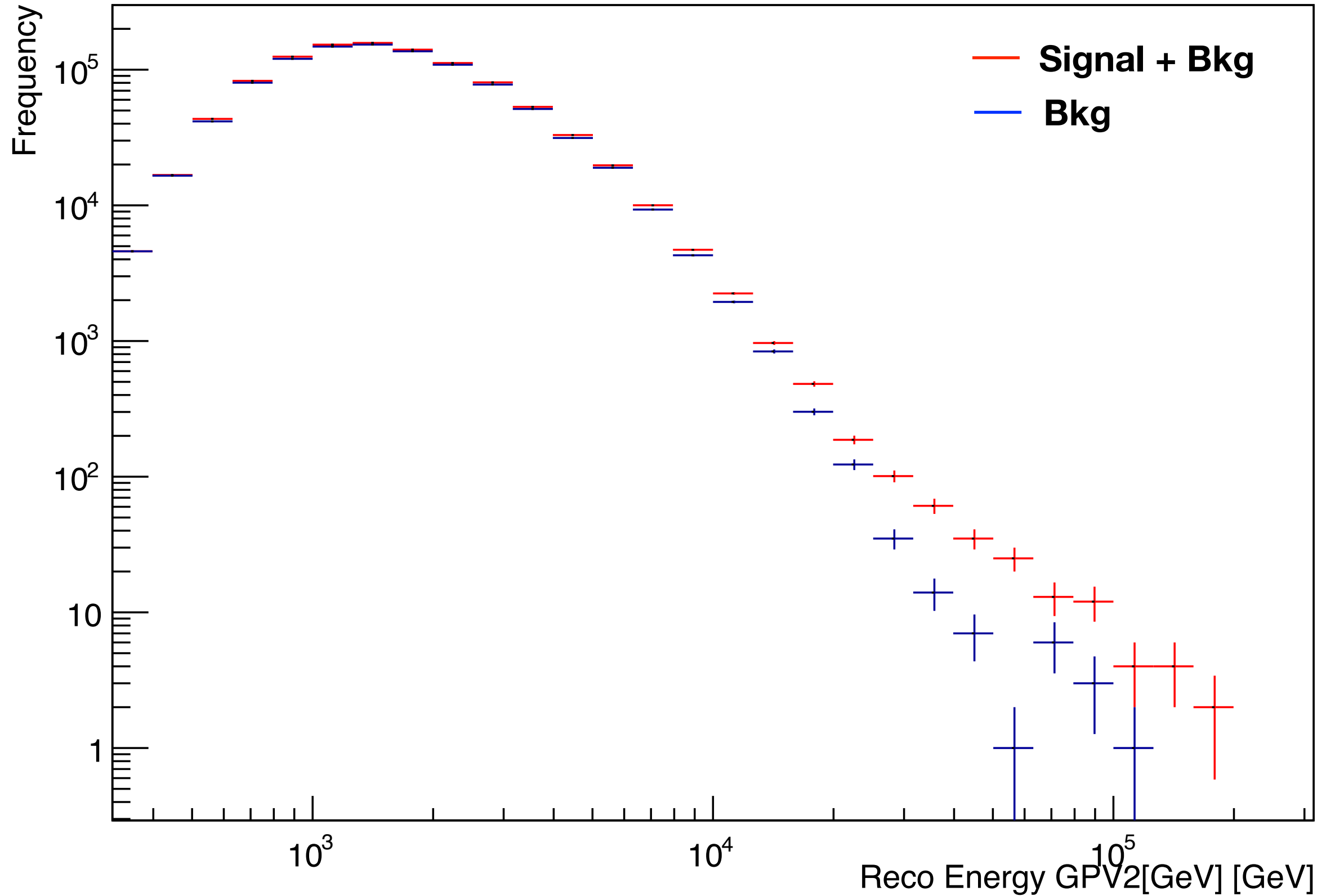




Data ~2016

Observed 2016-2017 script: Reco Extractor

EnergyGPV2



Observed 2016-2017 script: Reco Extractor EnergyGPV2

