

Spectral Analysis

Parameters:

Index: 2.22

Amplitude: 1.289×10^{-12}

Livetime: [25,20,10,8,5,4,2,1] hrs

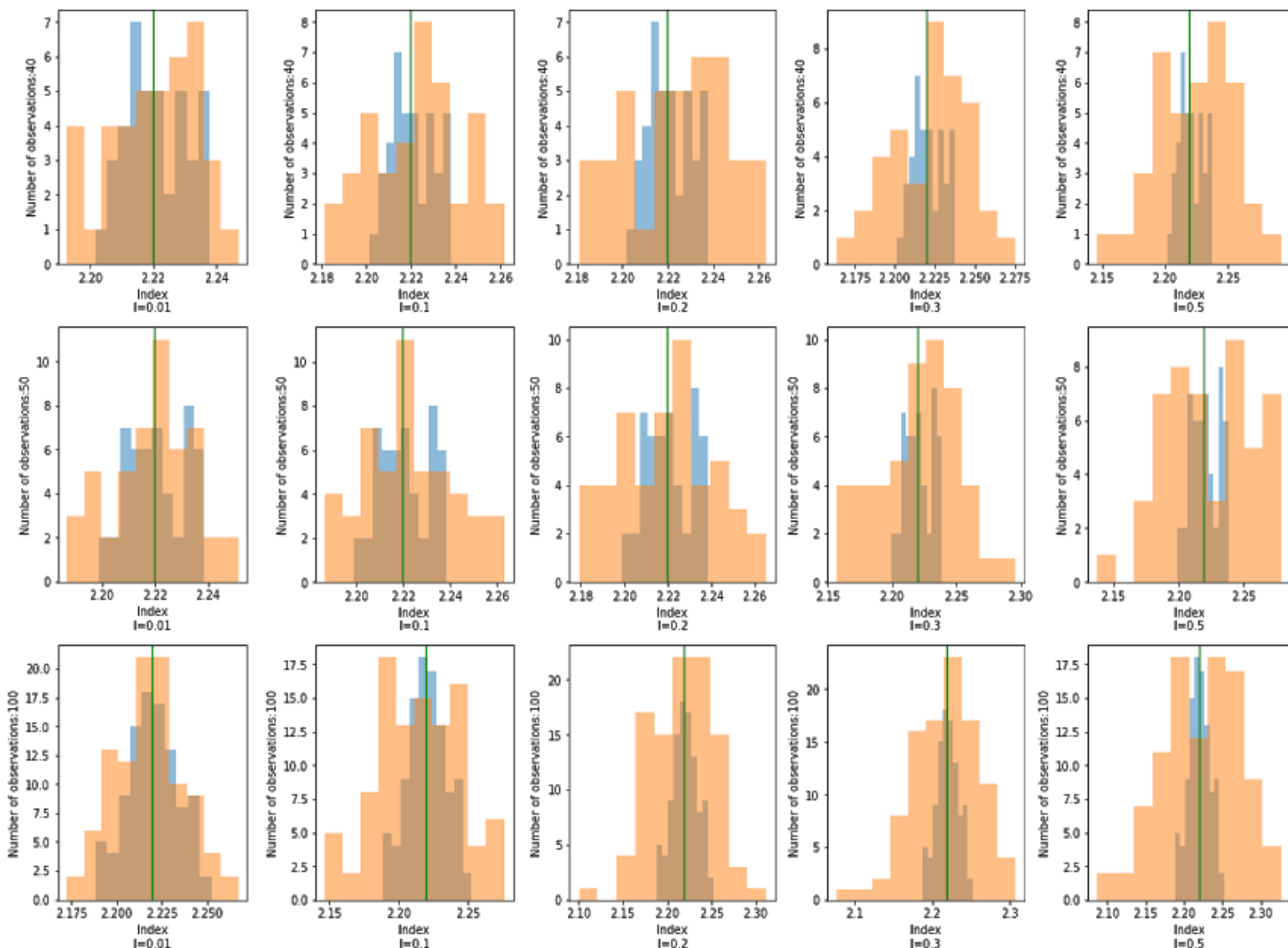
Number of observations: [40,50,100,125,200,250,500,1000]

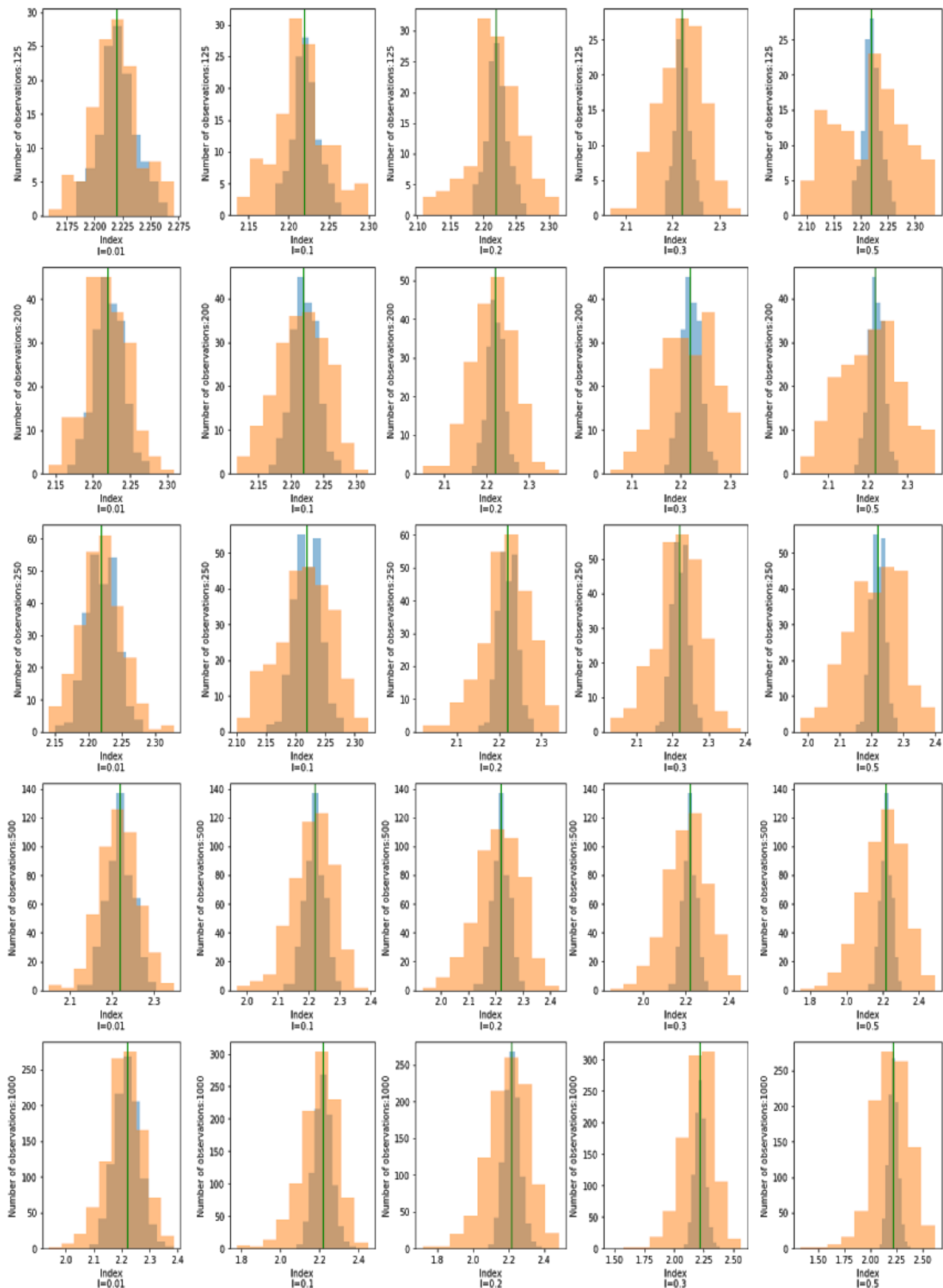
Total Runtime: 1000 hrs

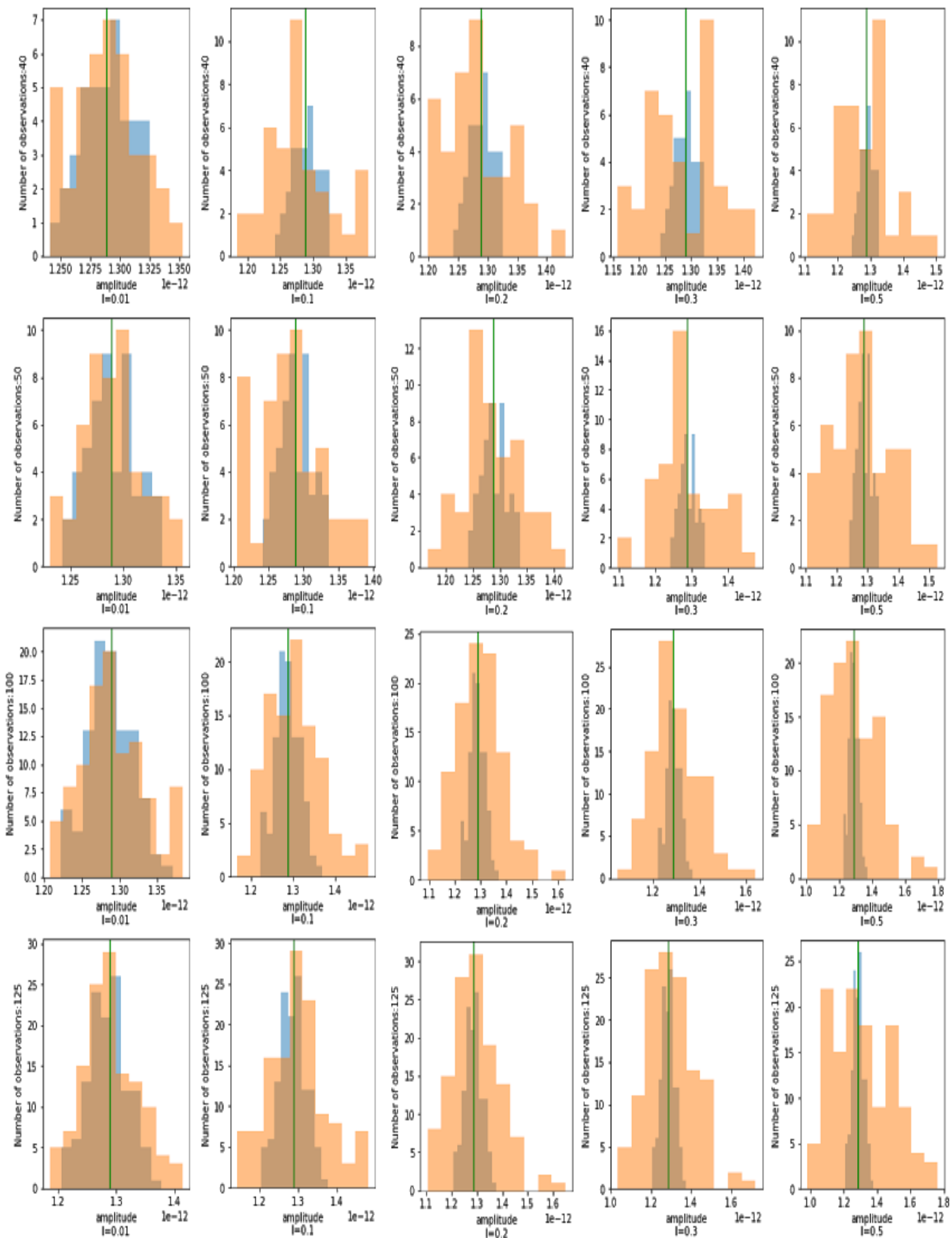
Energy Range: 30GeV - 100TeV

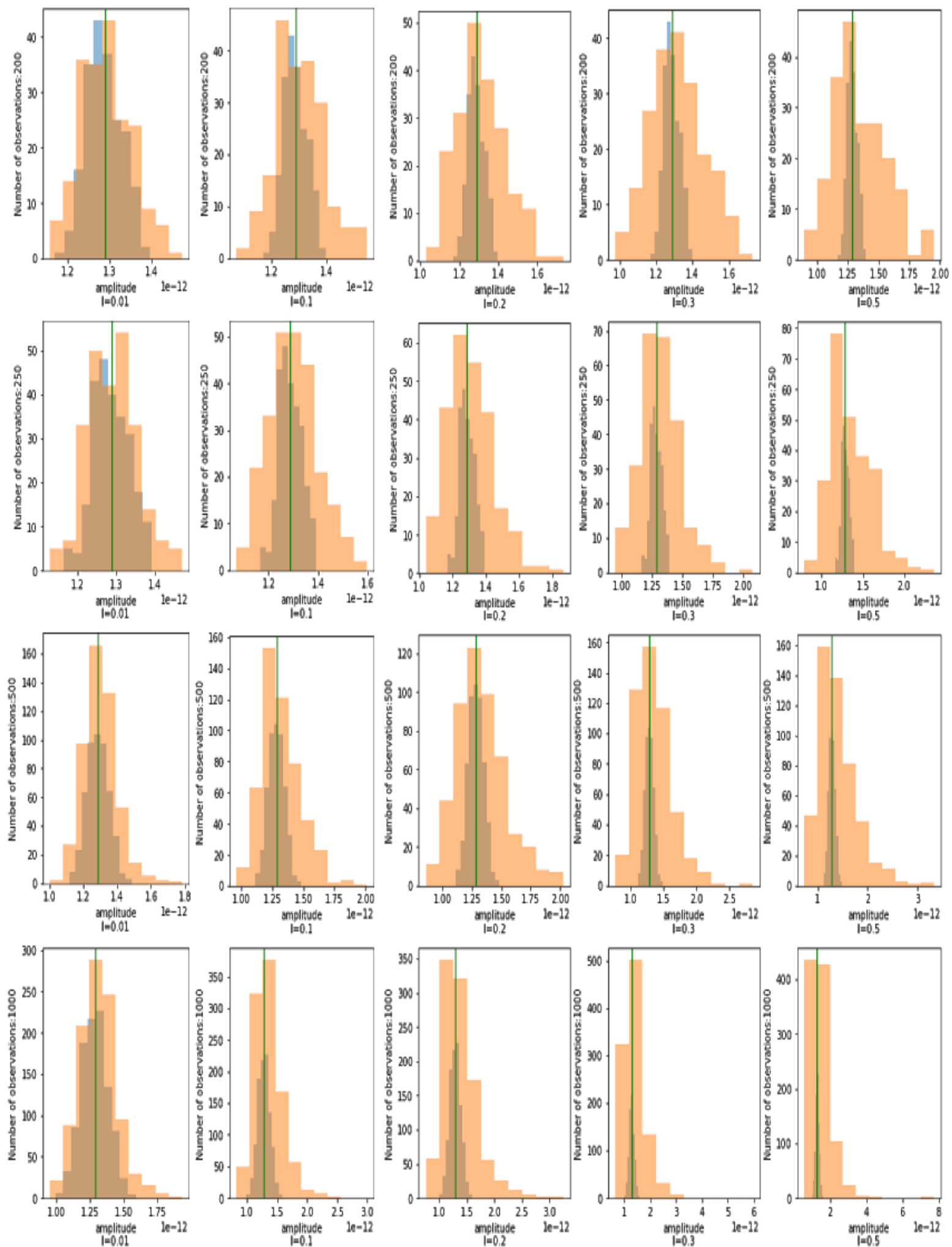
Model : [PowerLaw, $\Gamma=0.01$, $\Gamma=0.1$, $\Gamma=0.2$, $\Gamma=0.3$, $\Gamma=0.5$]

Comparing PowerLaw with PowerlawExponentialcutoff
with different Lambda values for different number of
observations:

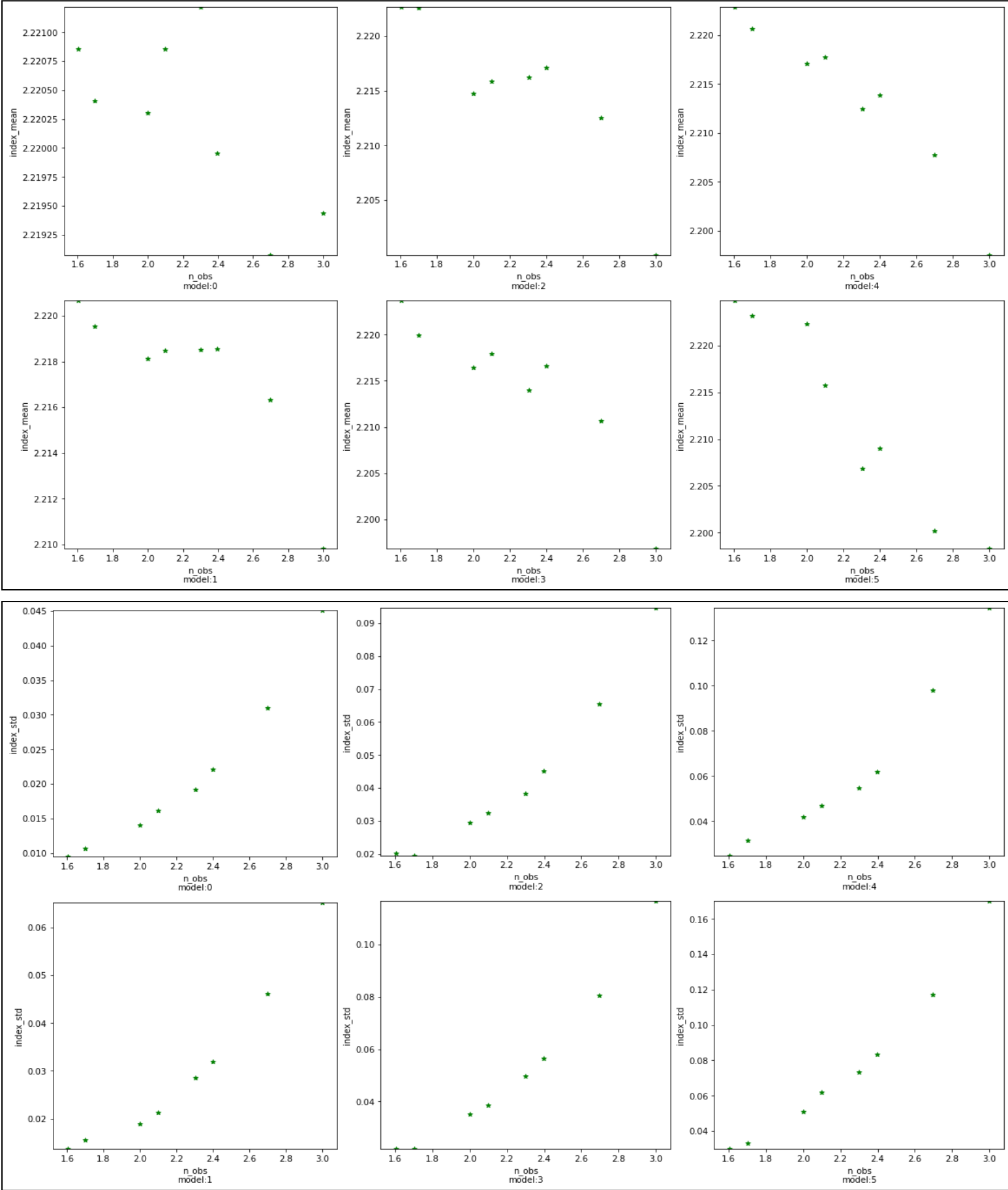


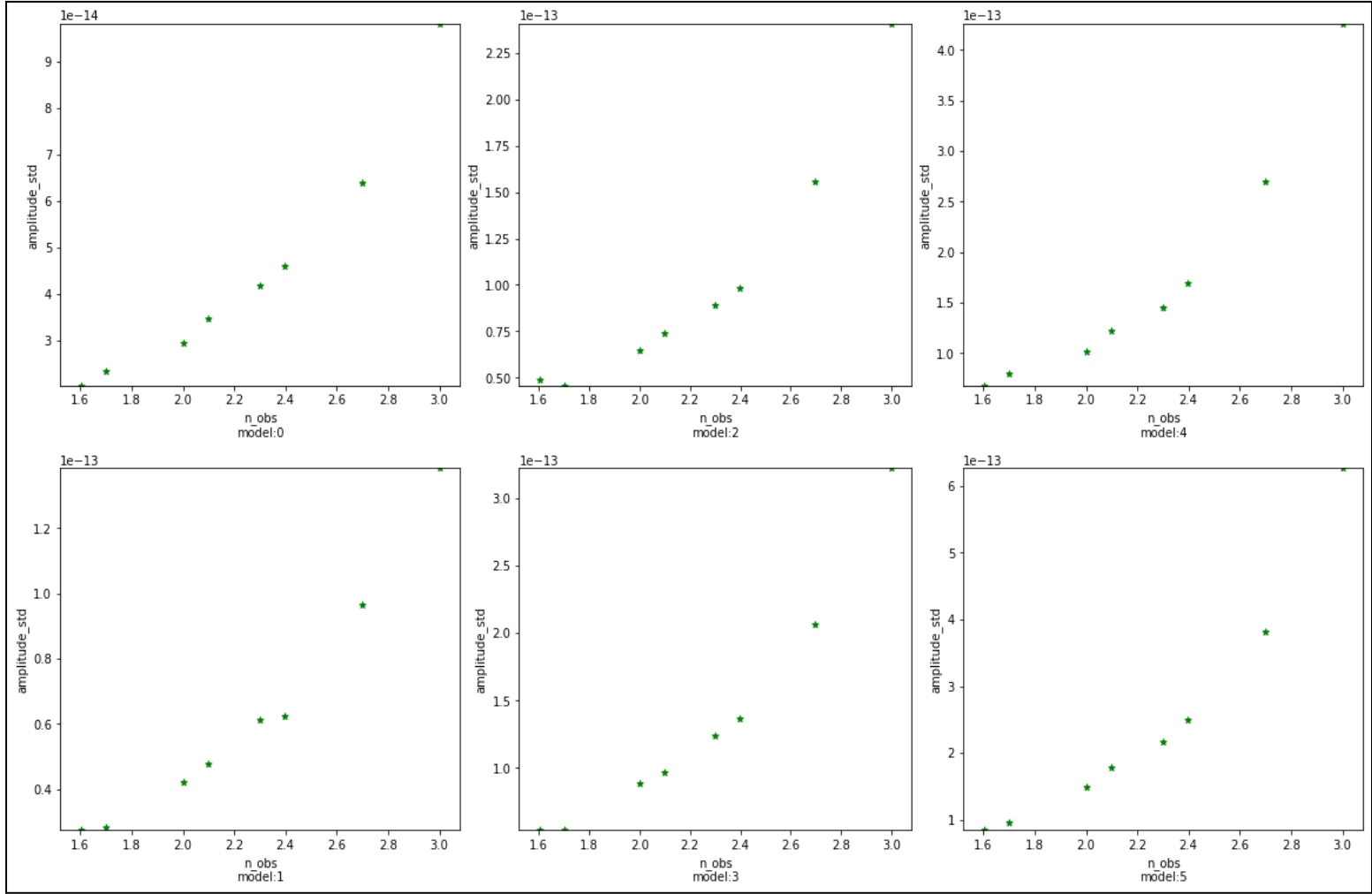
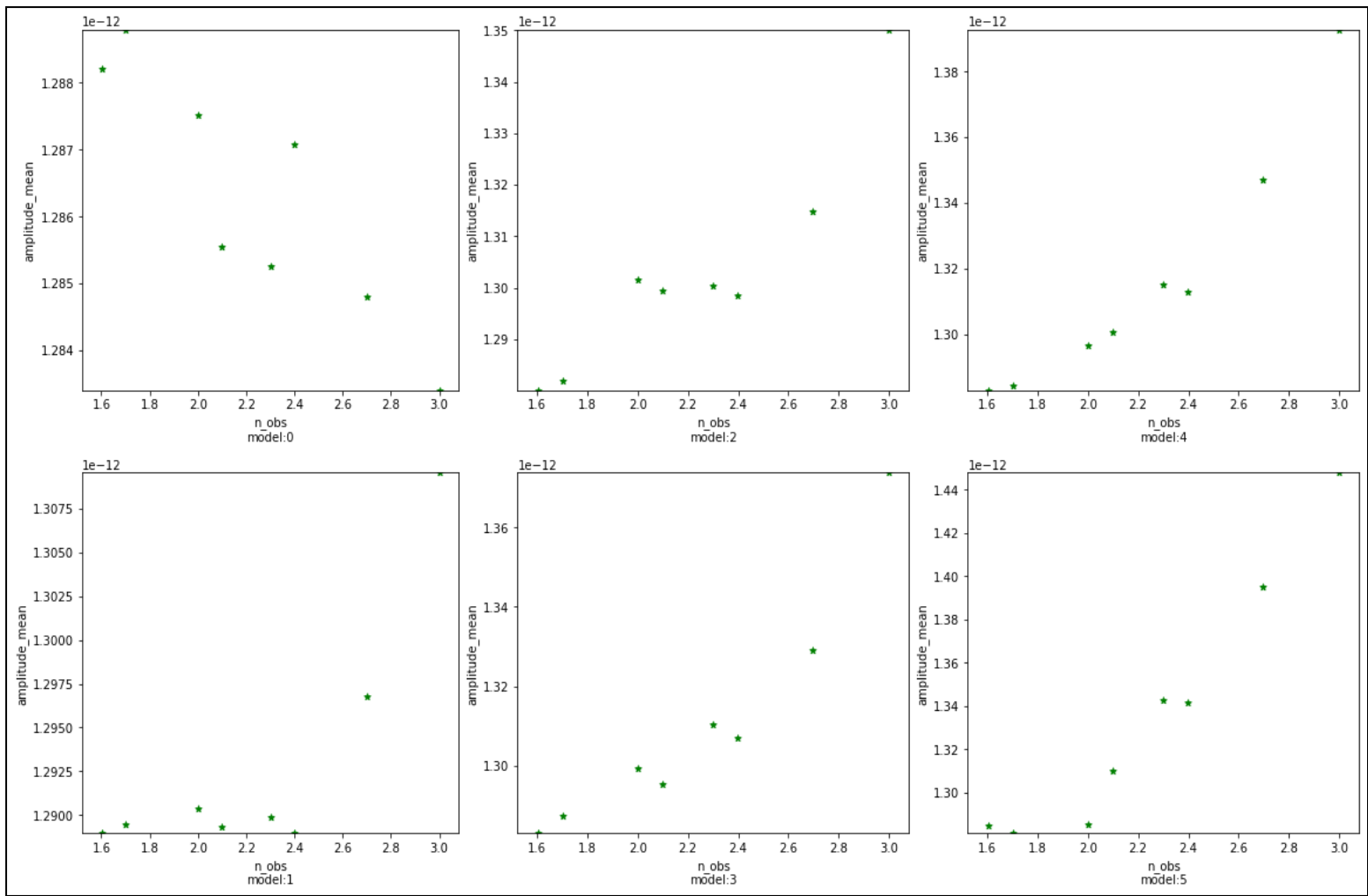


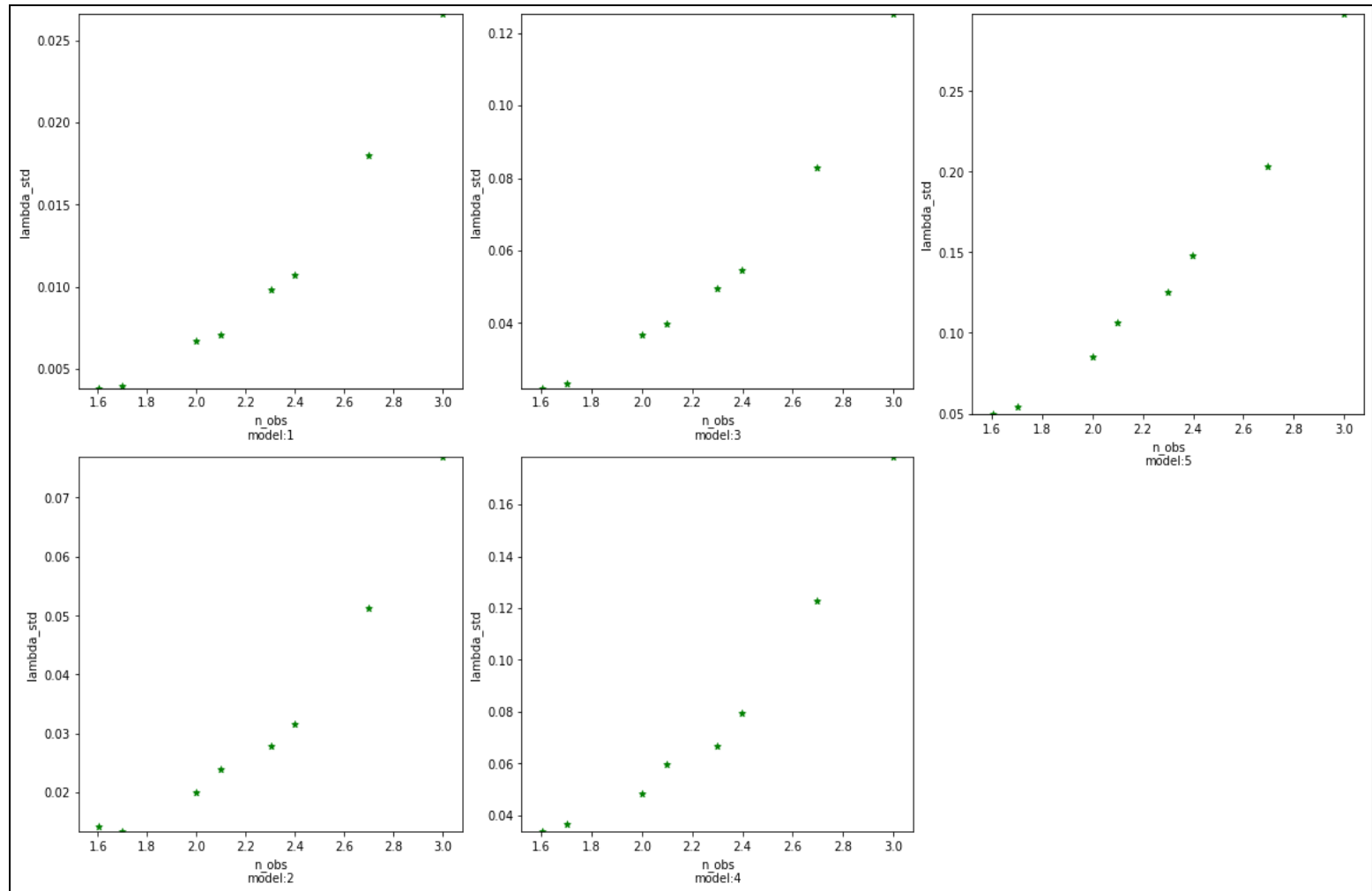
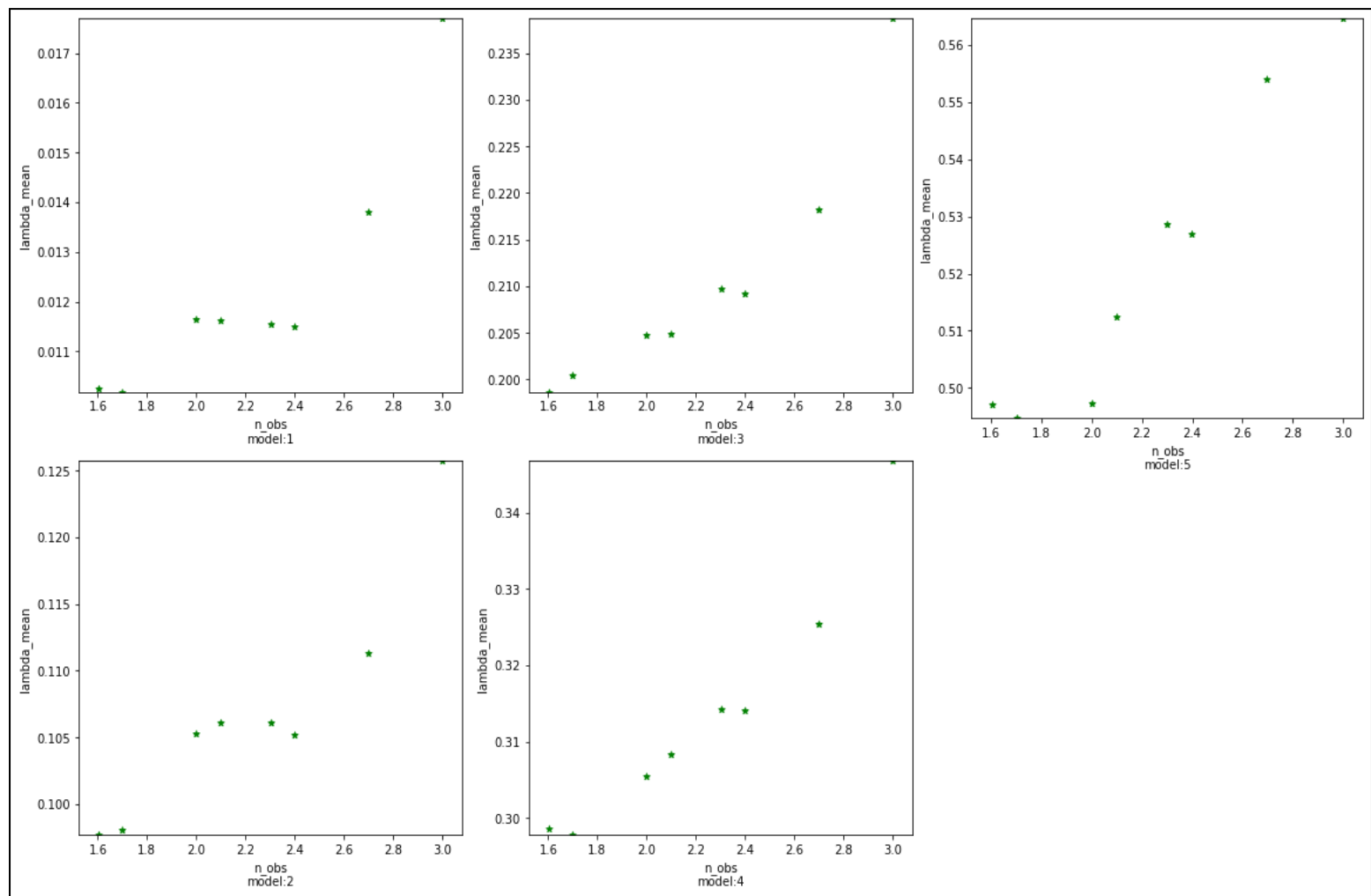




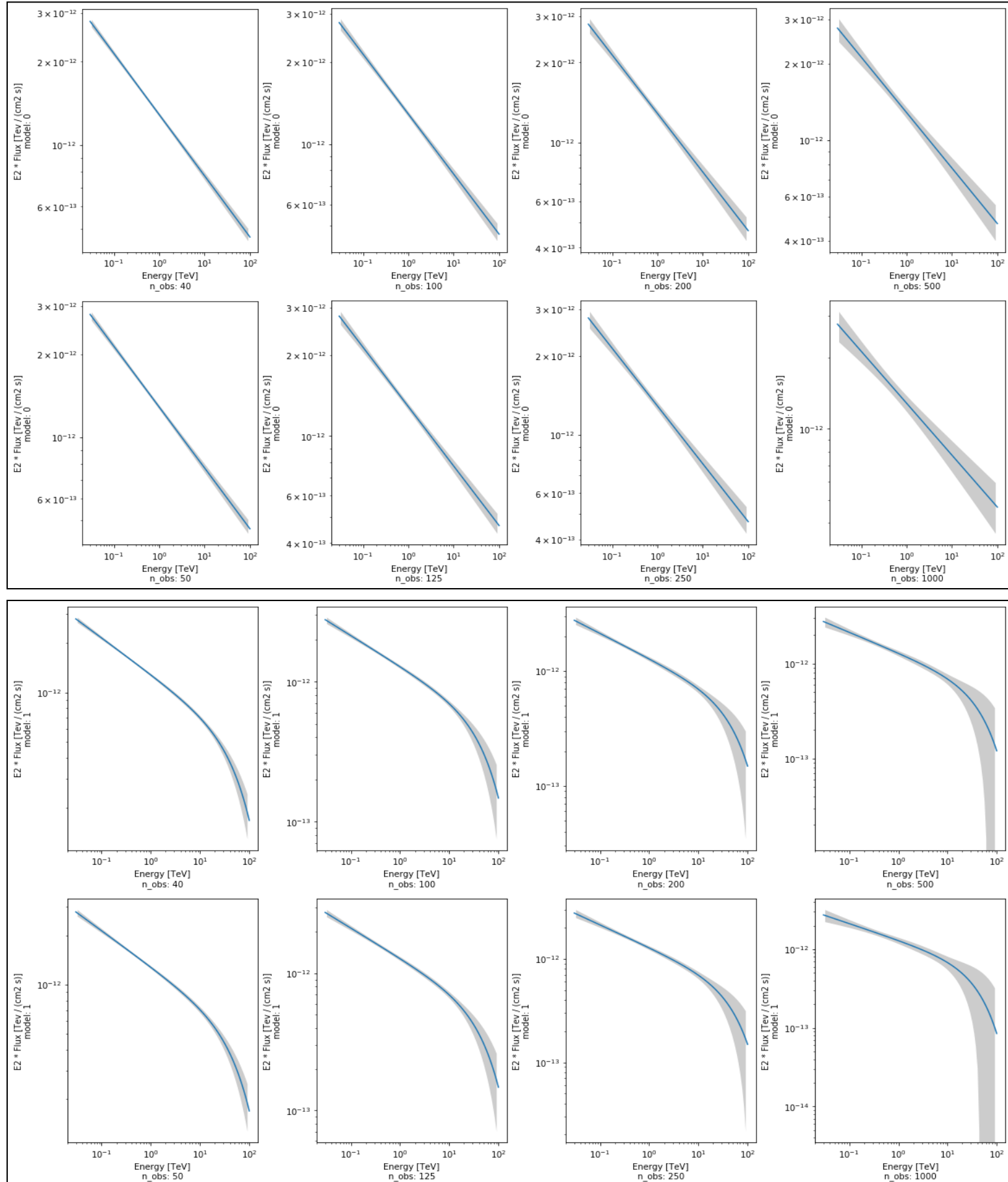
Comparing Index, Amplitude, Lambda values for different models for different number of observations:

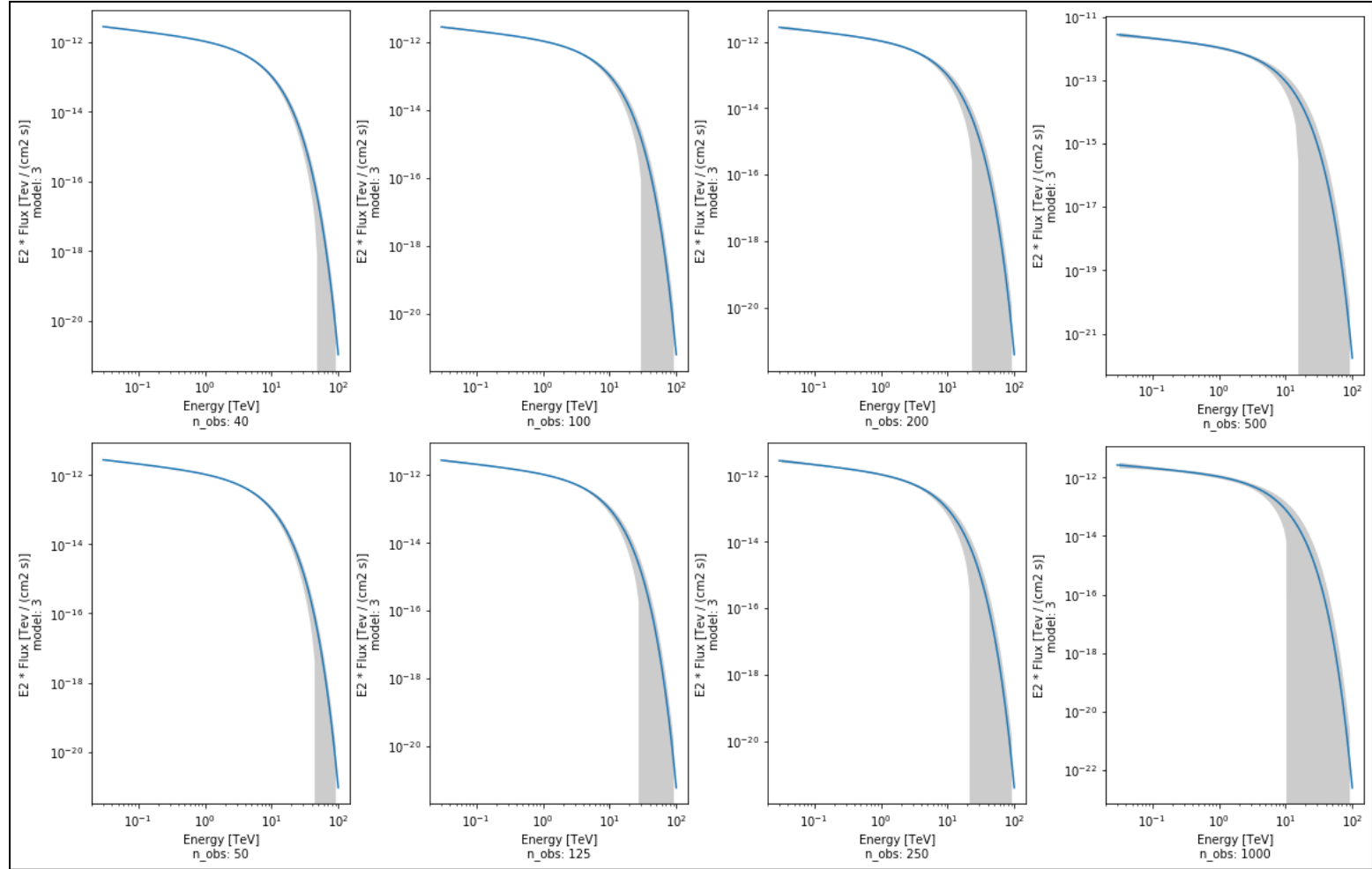
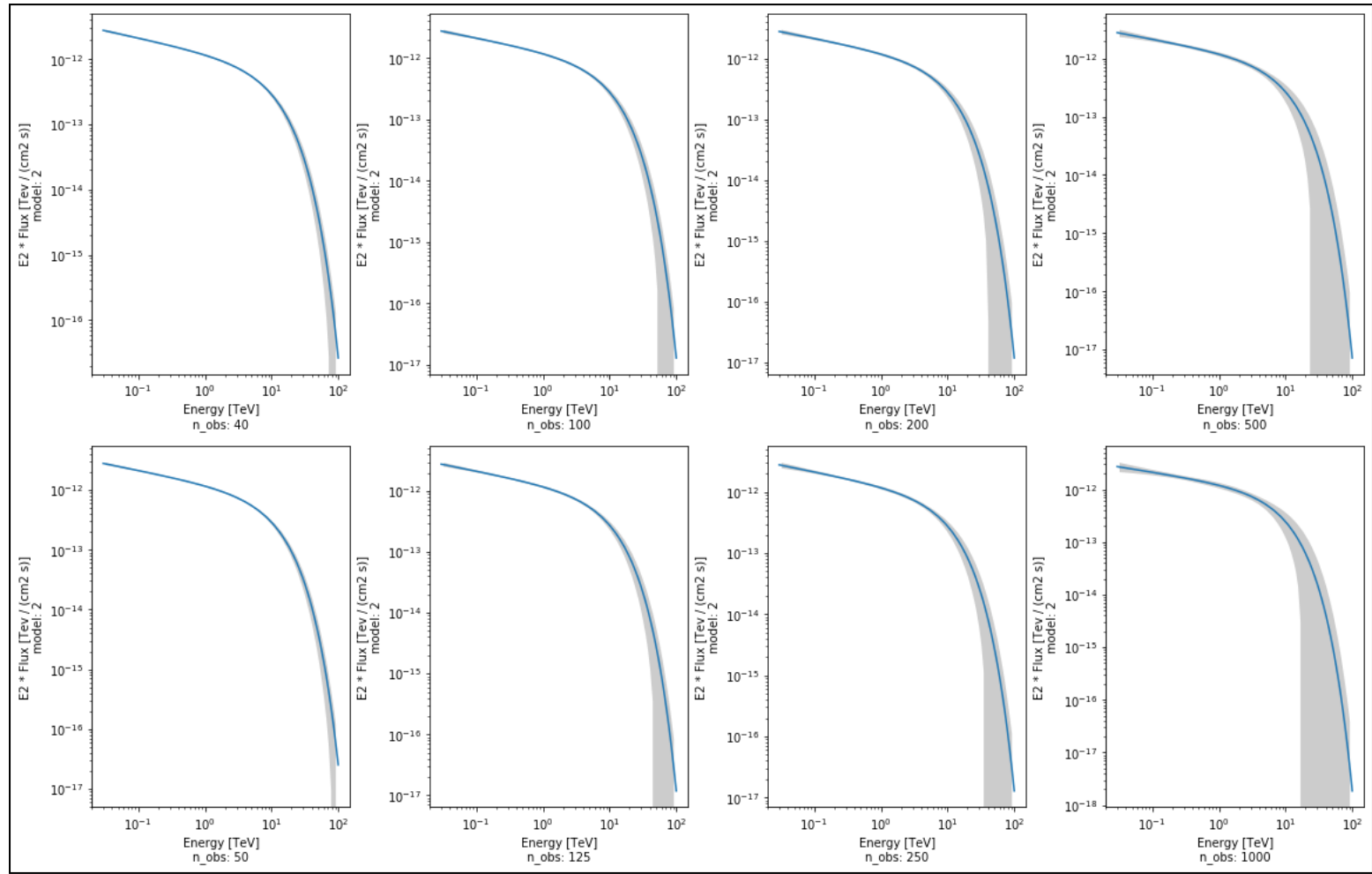


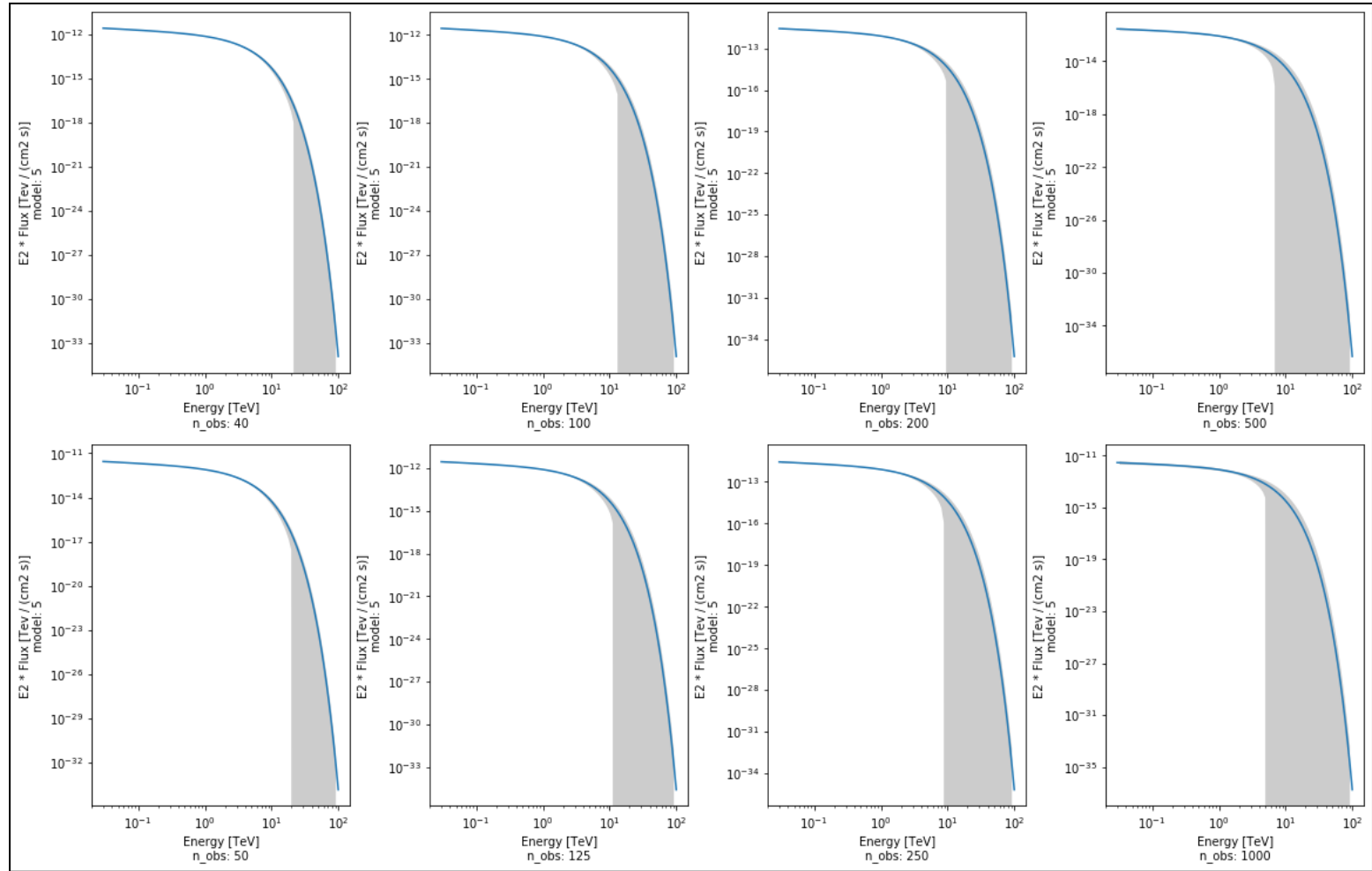
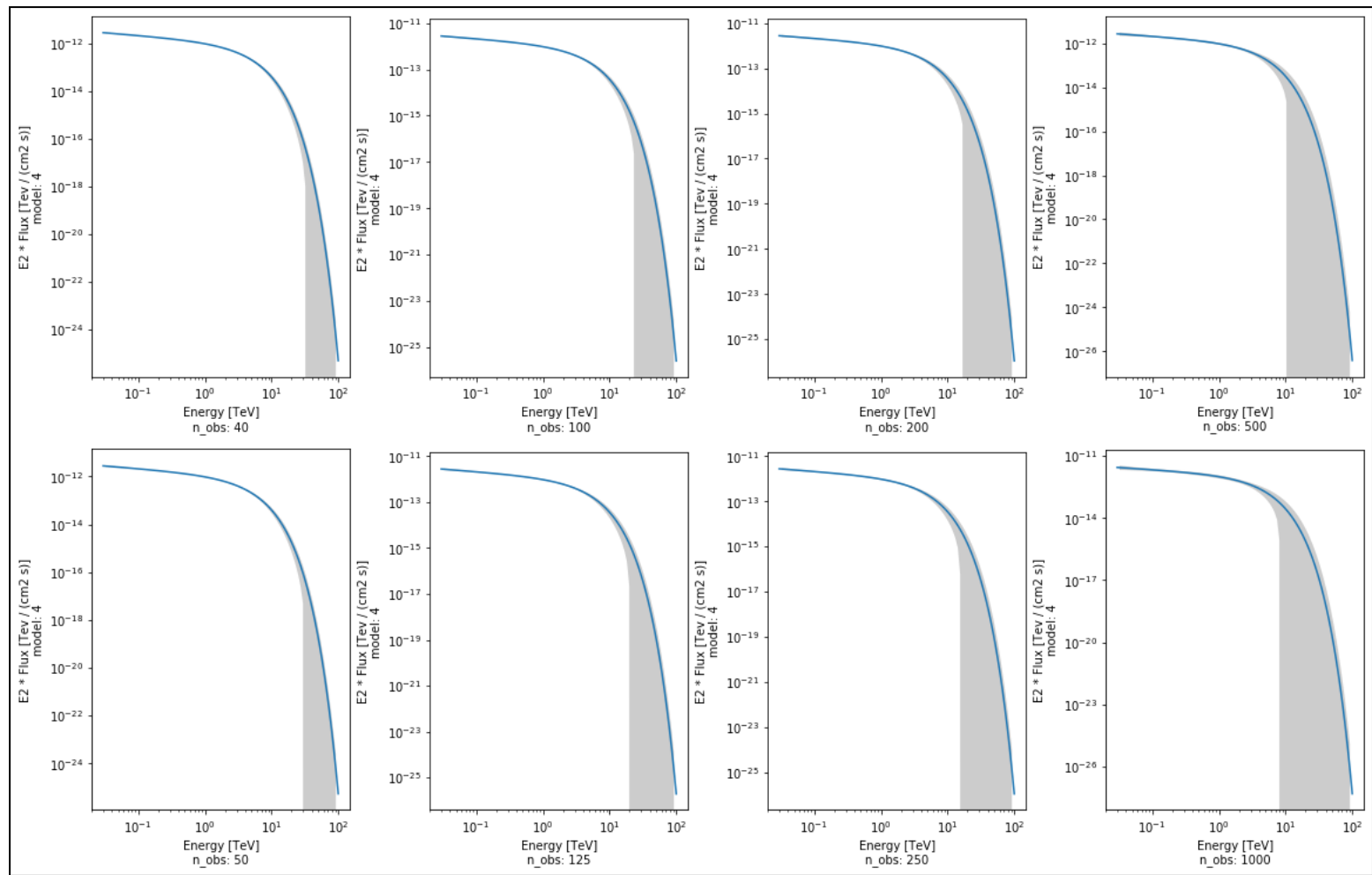




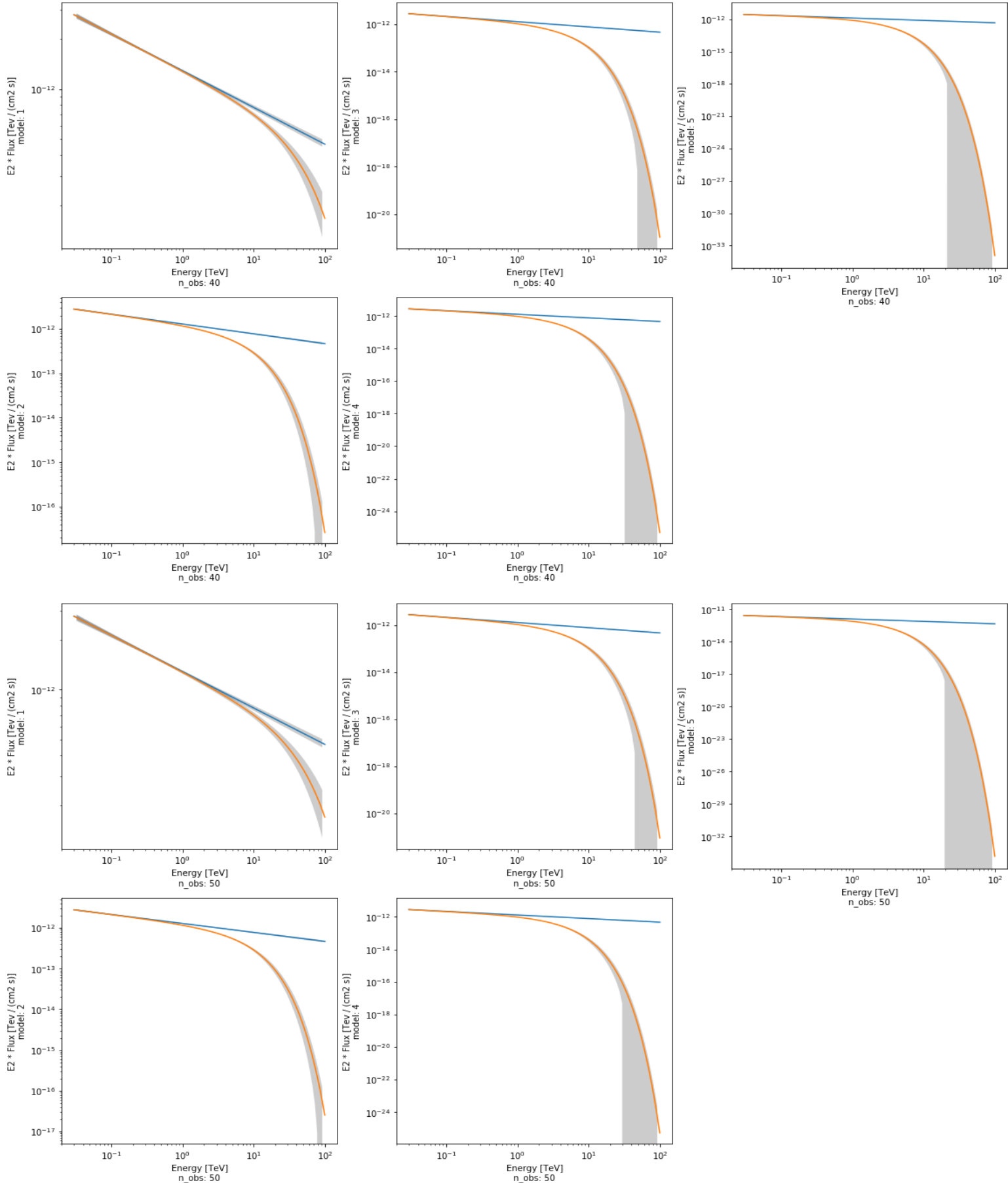
Flux vs Energy Curve with error for different models and number of observations:

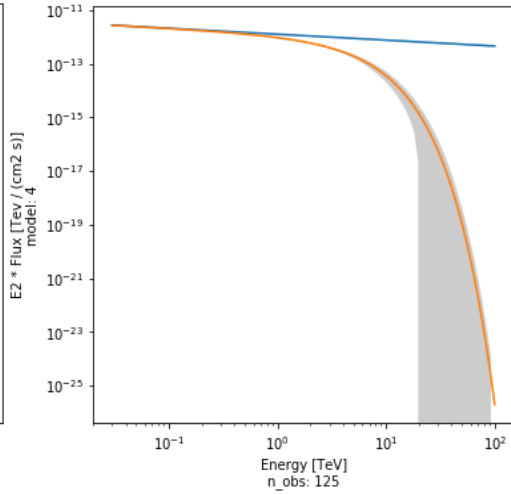
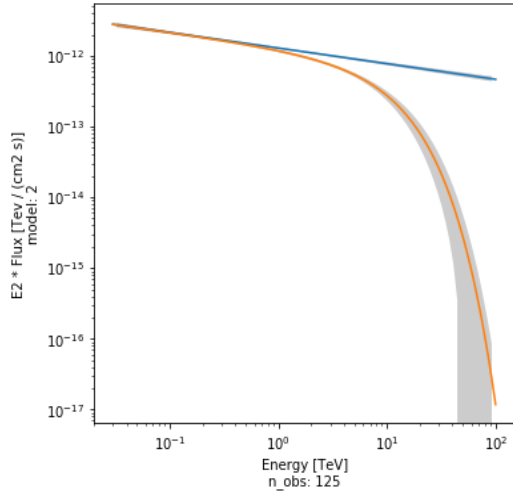
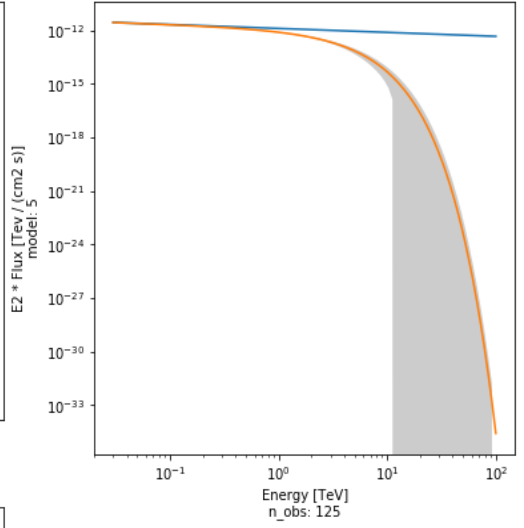
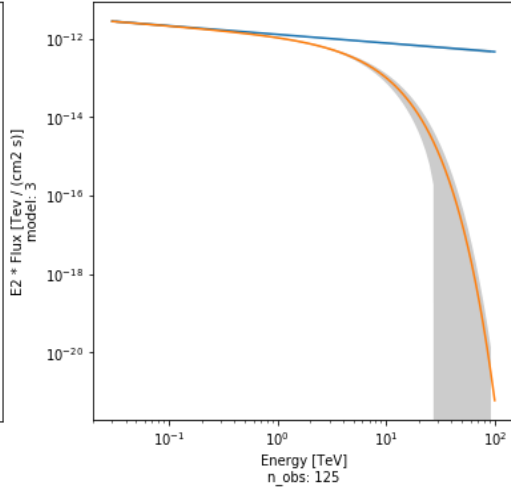
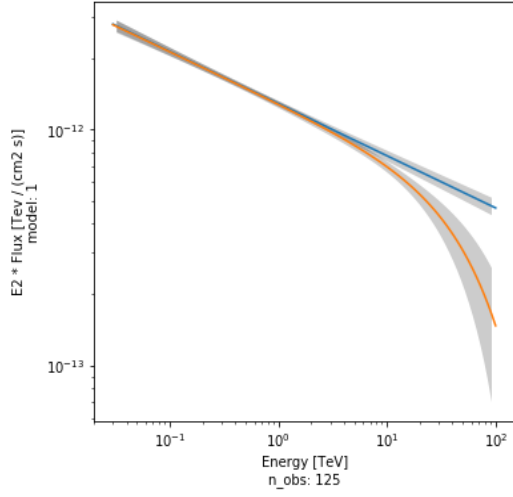
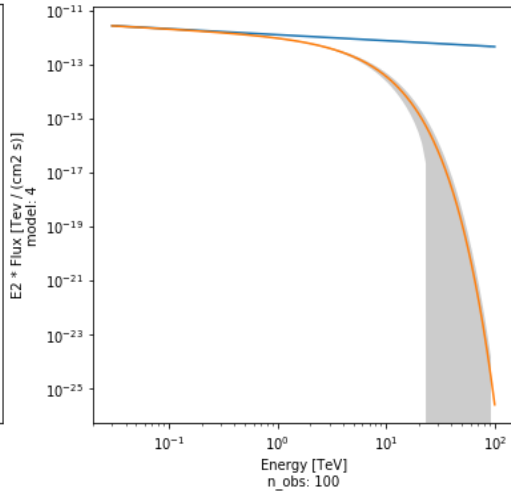
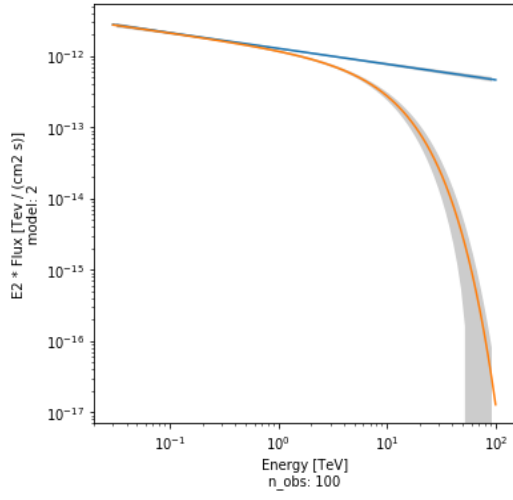
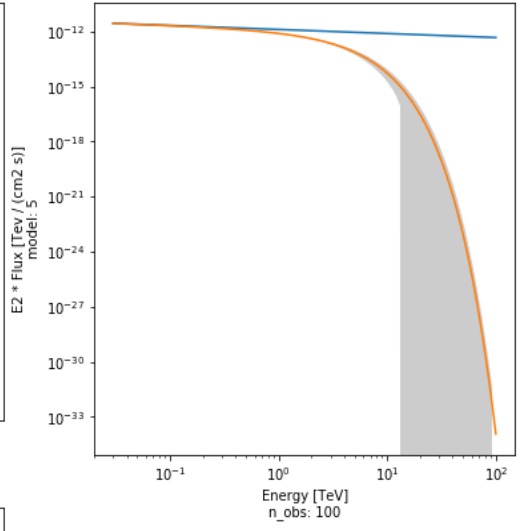
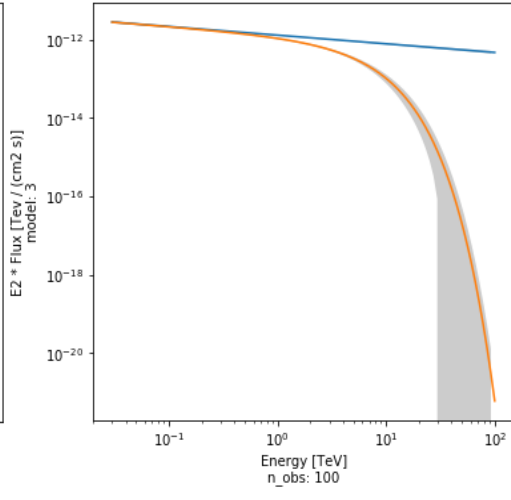
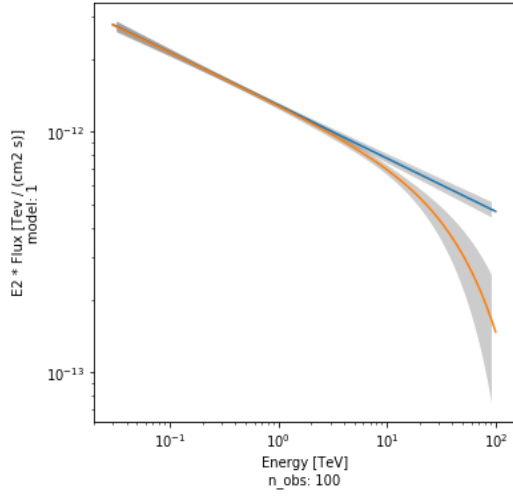


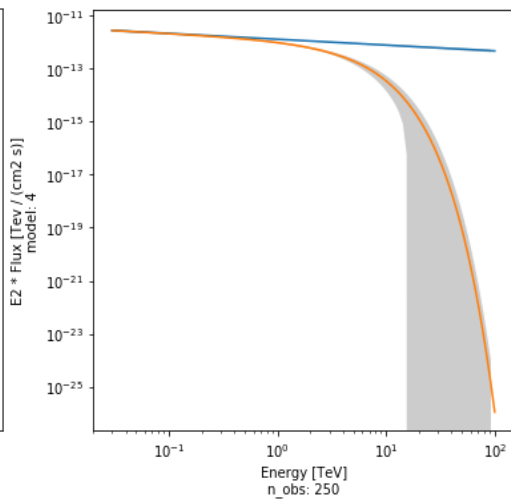
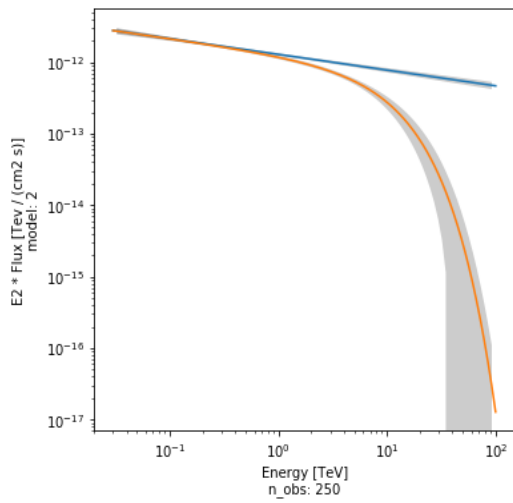
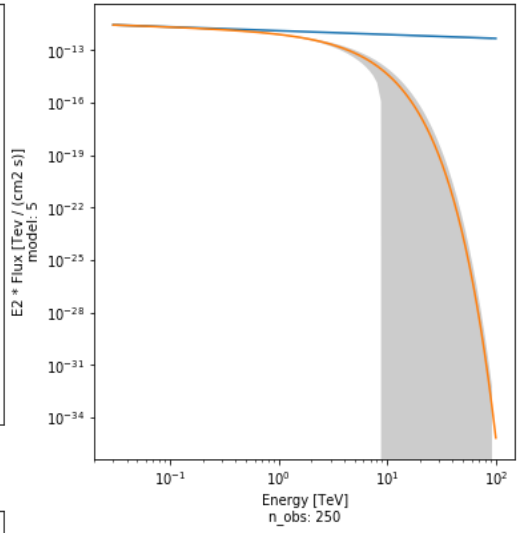
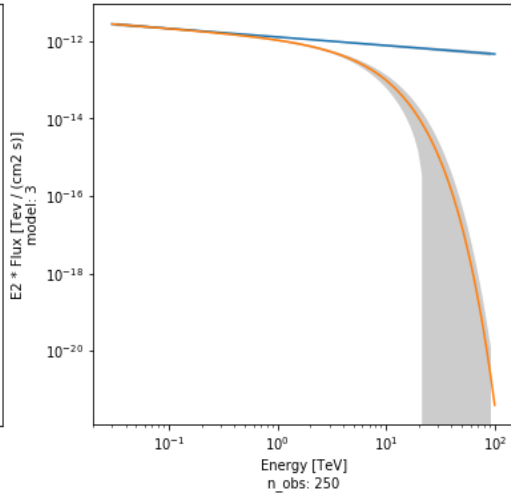
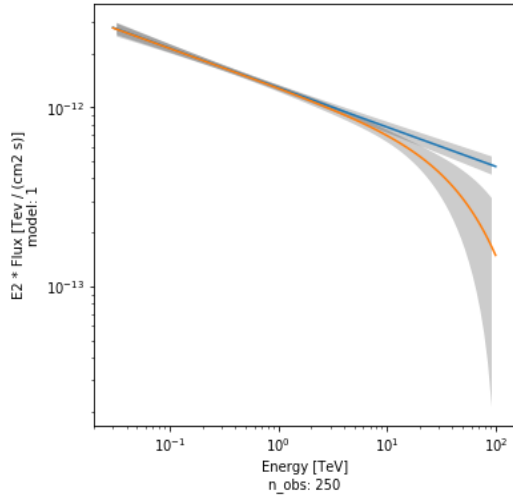
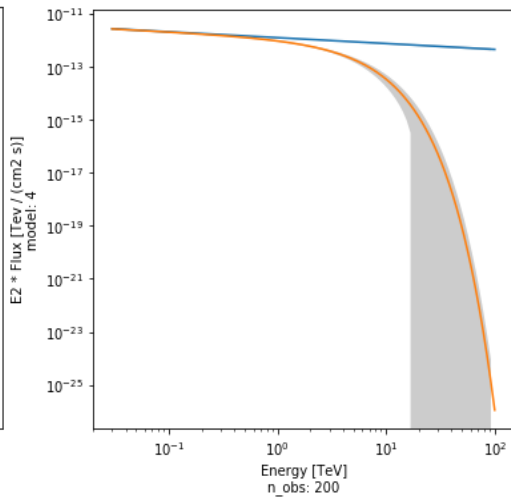
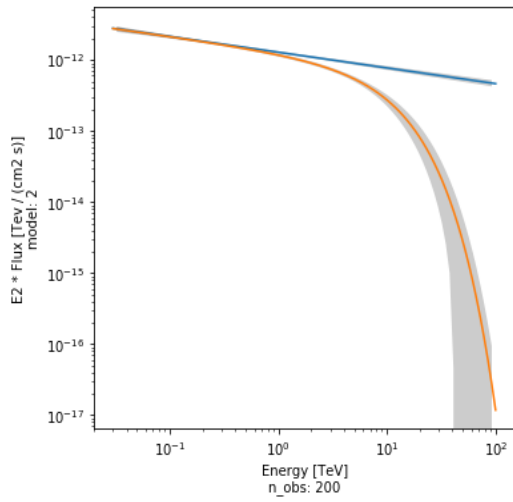
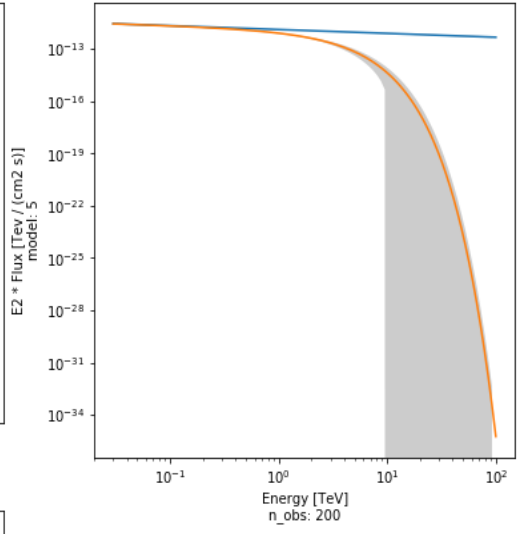
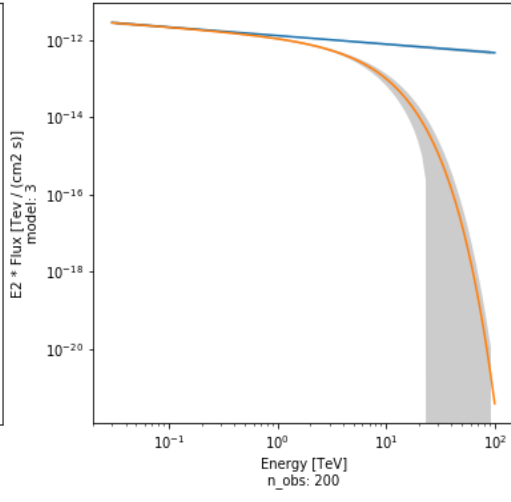
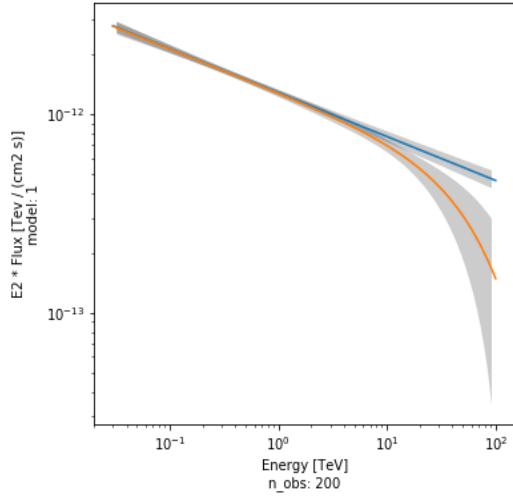


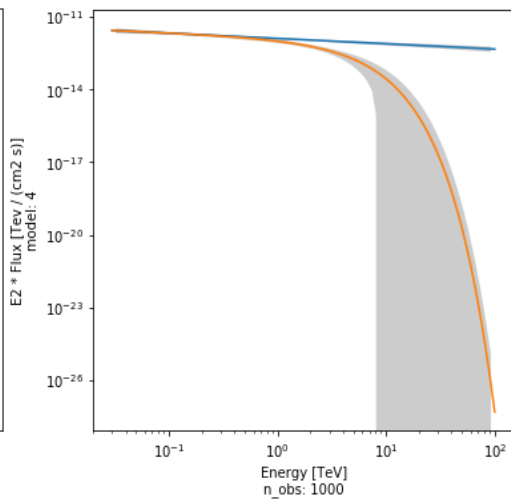
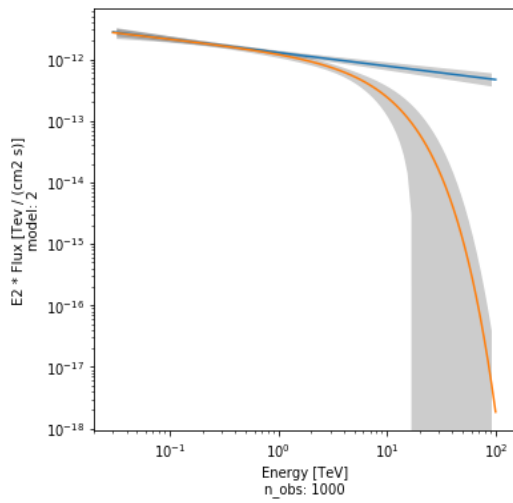
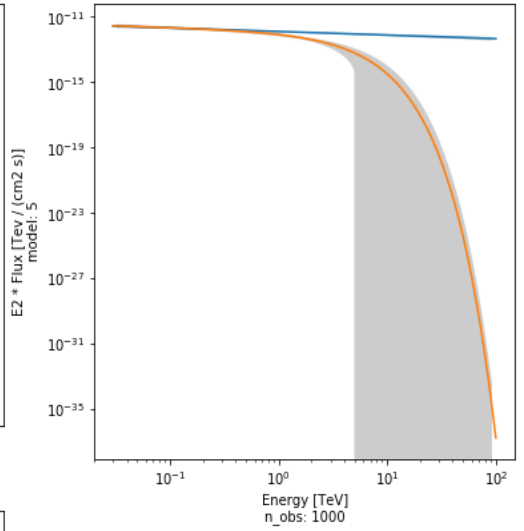
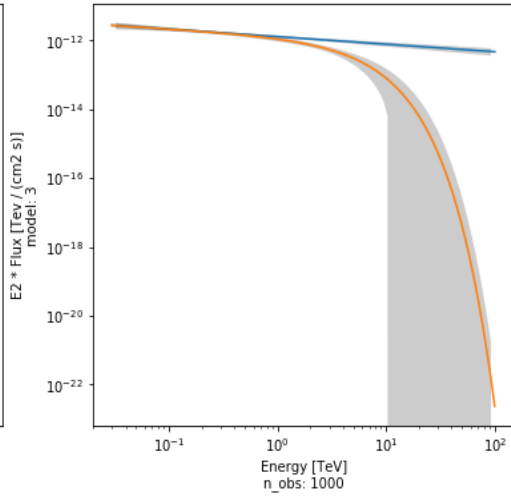
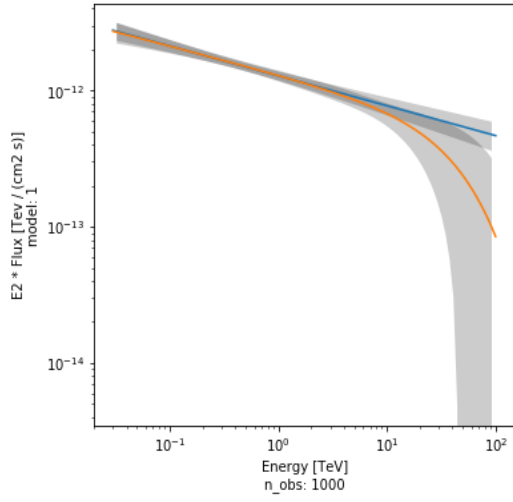
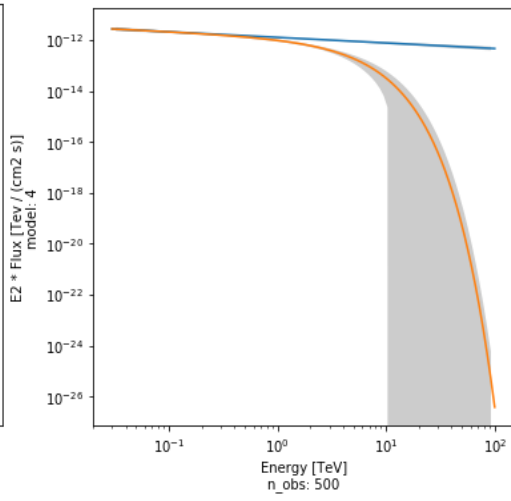
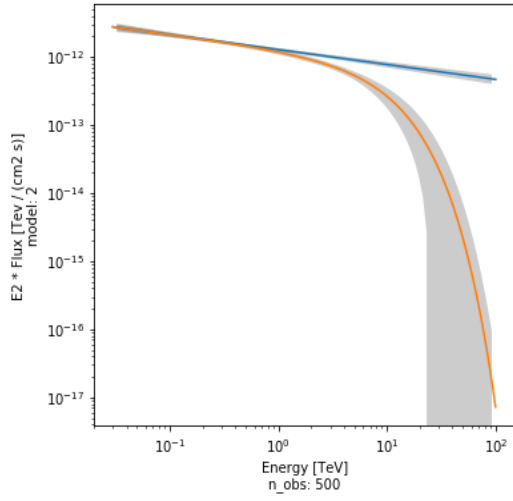
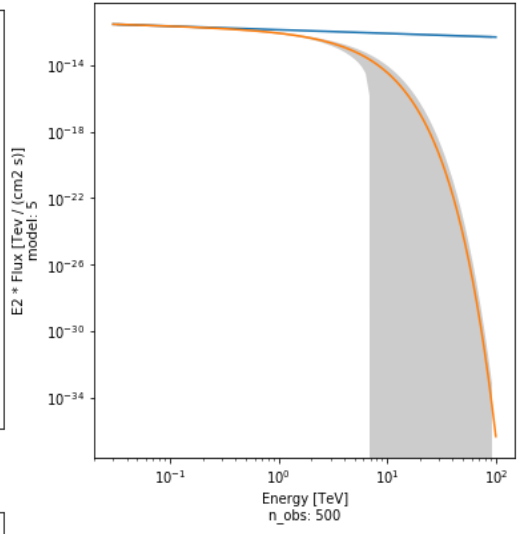
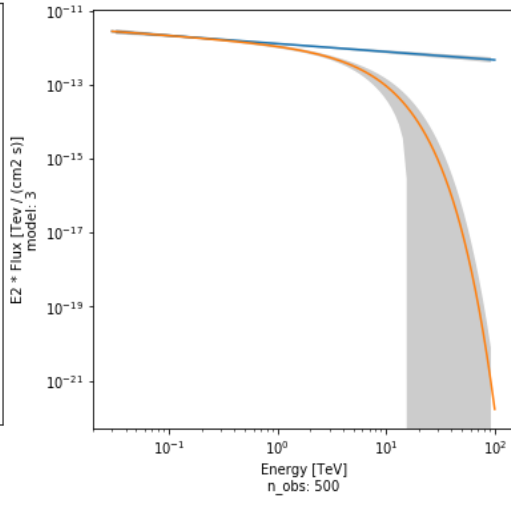
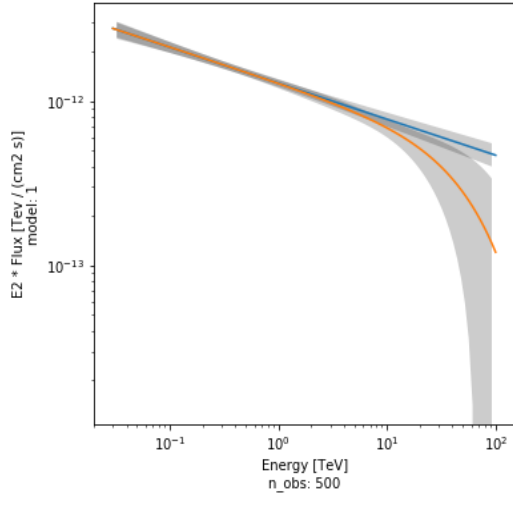


Comparing Flux vs Energy curve of PowerLaw with PowerLawExponentialcutoff for same no. of observations:

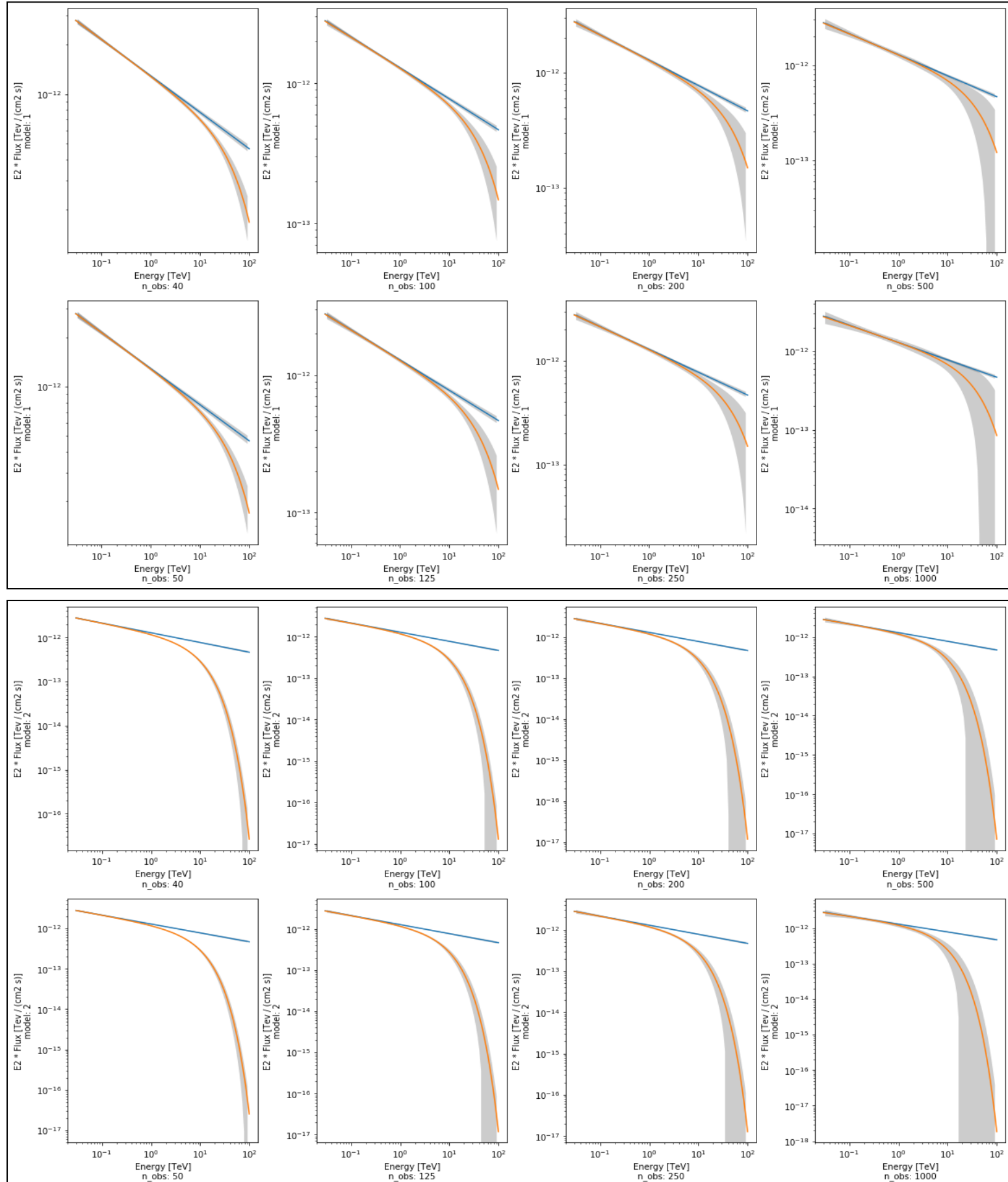


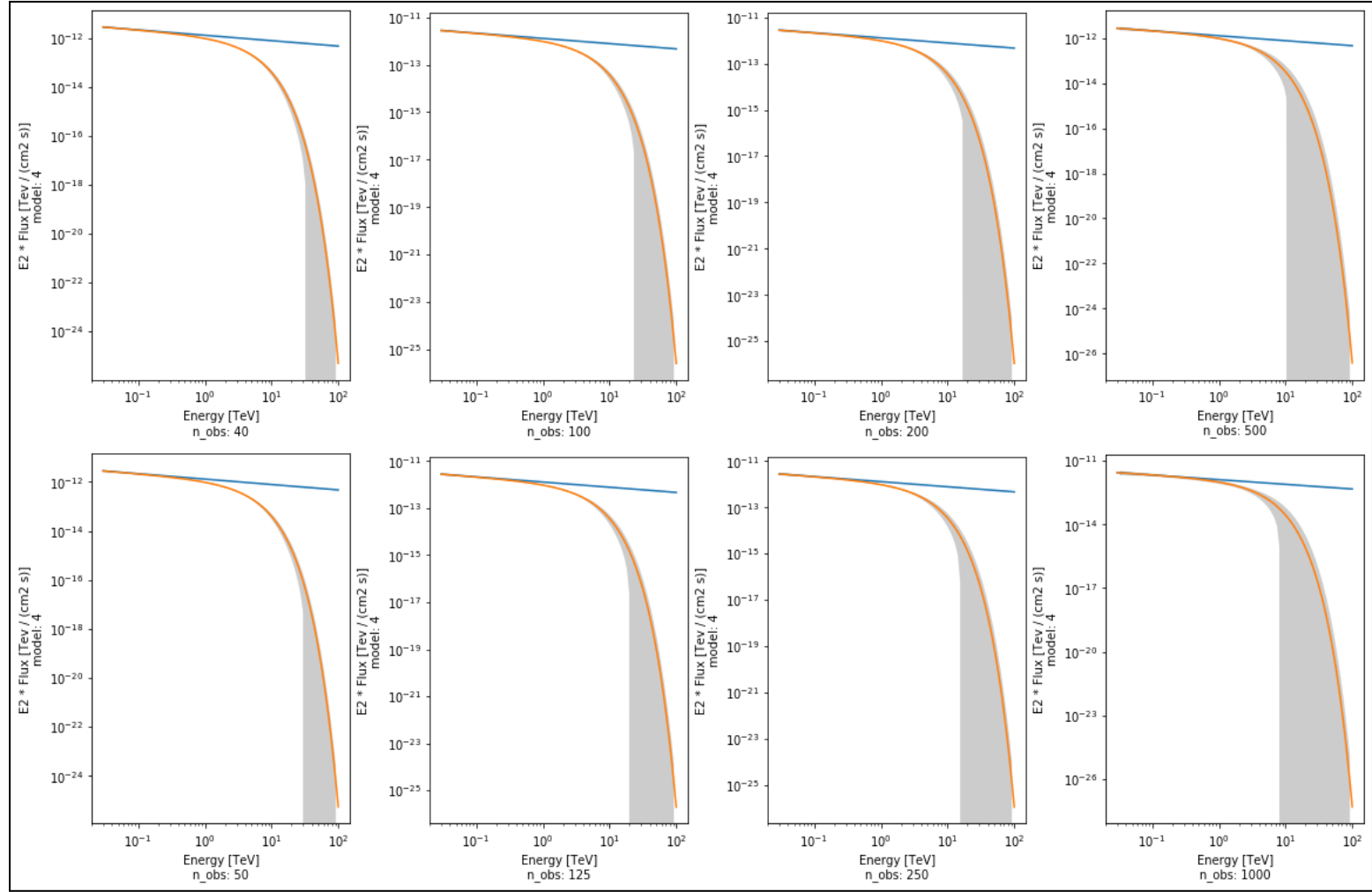
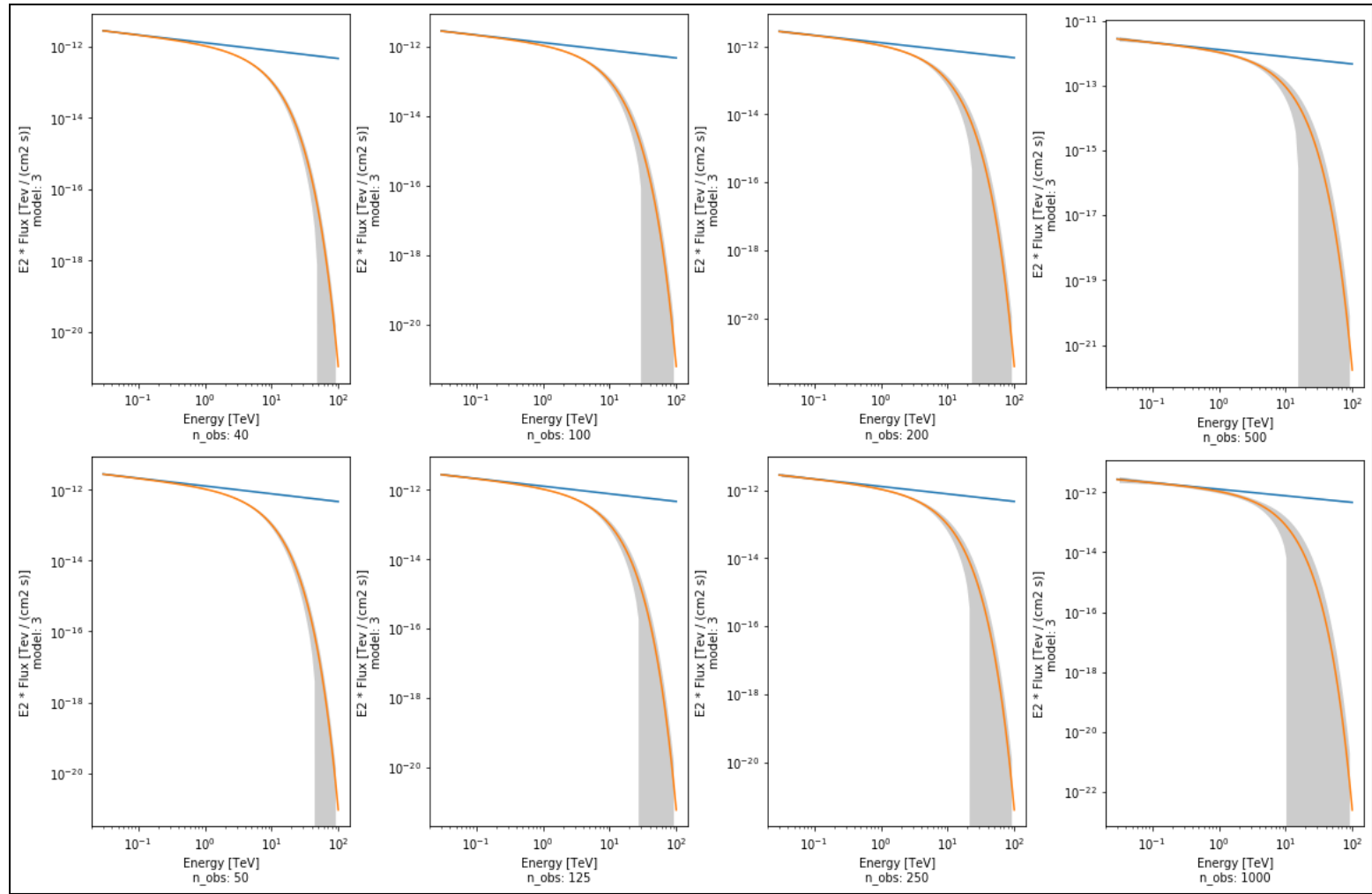


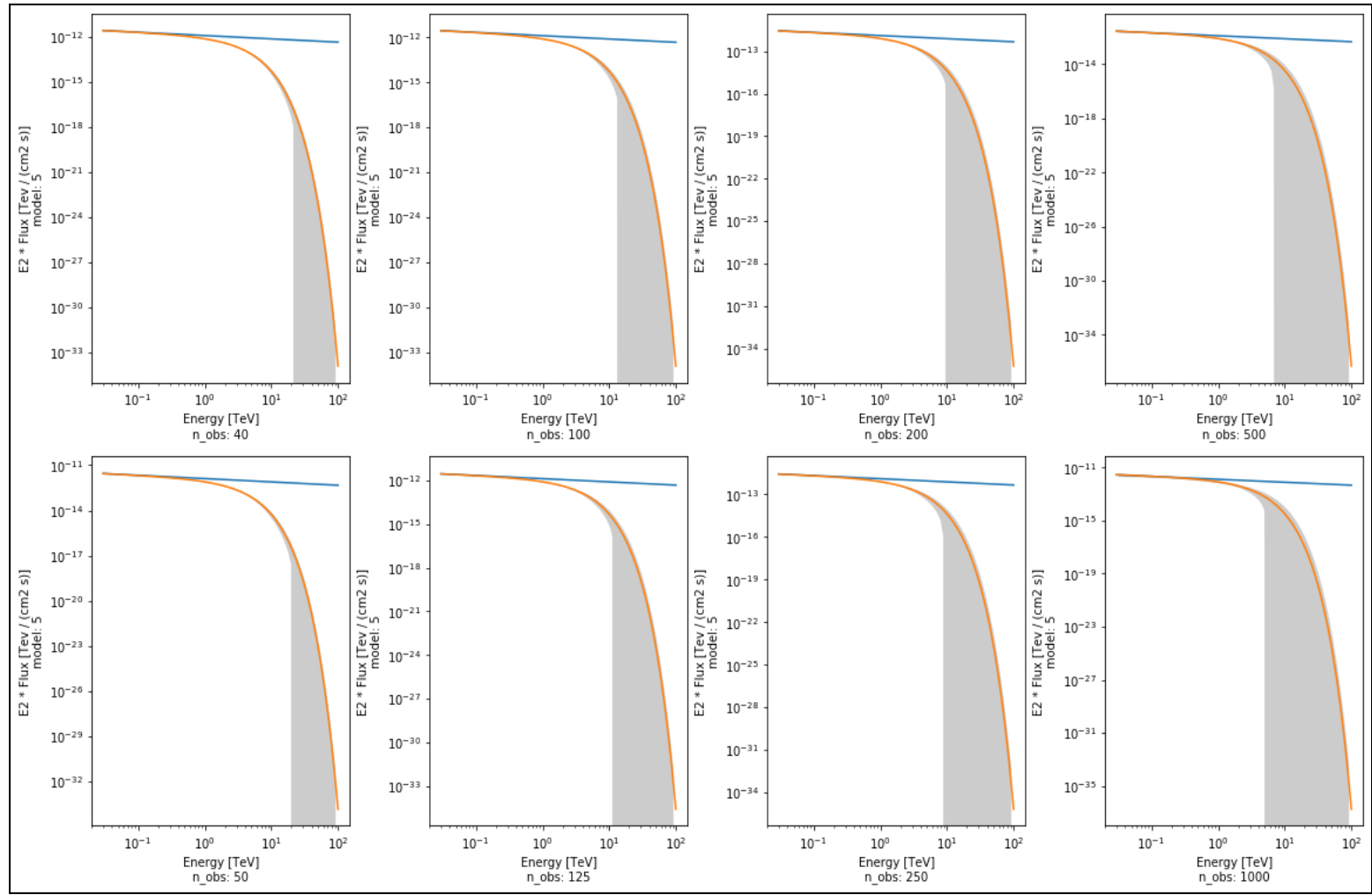




Comparing Flux vs Energy curve of PowerLaw with PowerLawExponentialcutoff for the same model:







Flux vs Energy curve for different models:

