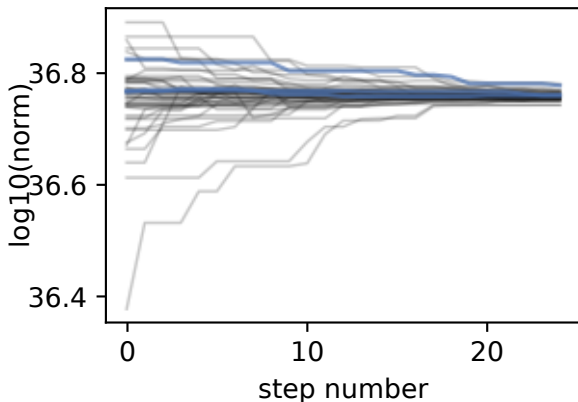


Walker traces



Walkers: 50

Steps in chain: 25

Mean acceptance fraction: 0.385

Distribution properties for the last ensemble:

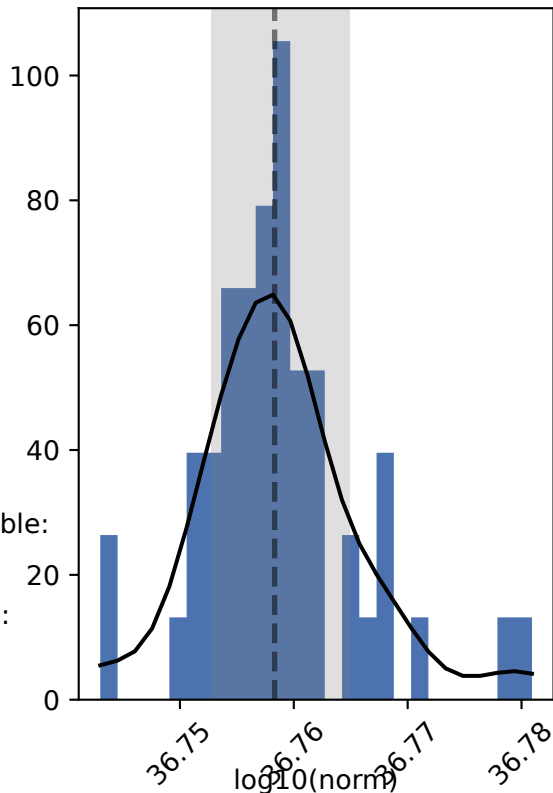
- median: 36.8, std: 0.00698

- median with uncertainties based on the 16th and 84th percentiles ( $\sim 1\sigma$ ):

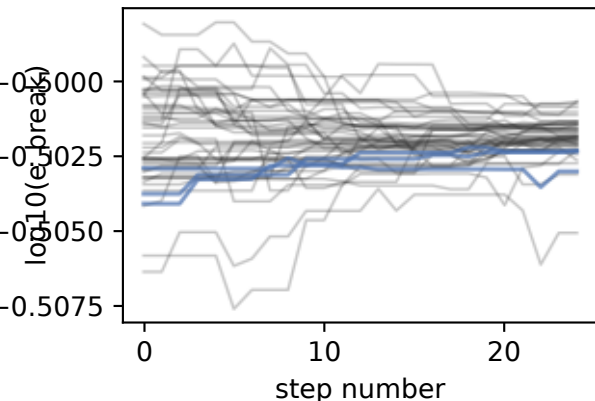
$\log_{10}(\text{norm}) = 36.758 \pm 0.006$

$\text{norm} = (5.73 \pm 0.08) \times 10^{36}$

posterior distribution



Walker traces



Walkers: 50

Steps in chain: 25

Mean acceptance fraction: 0.385

Distribution properties for the last ensemble:

- median:  $-0.502$ , std:  $0.000702$

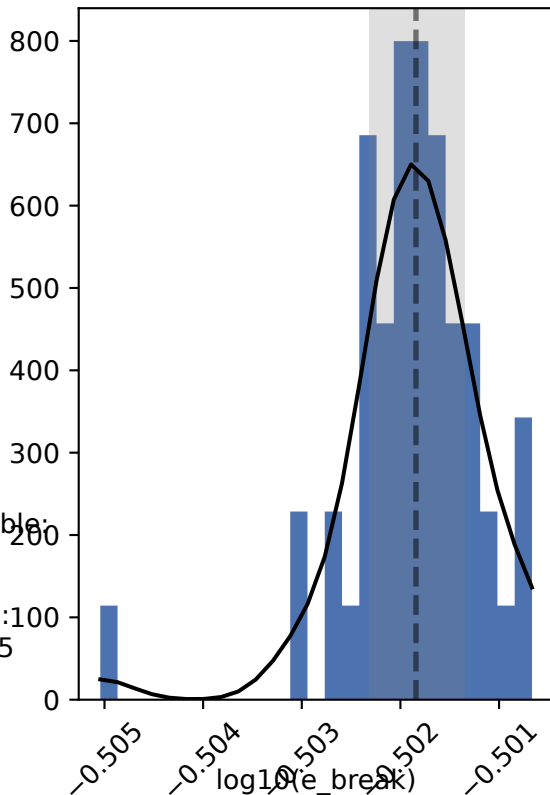
- median with uncertainties based on

the 16th and 84th percentiles ( $\sim 1\sigma$ ):

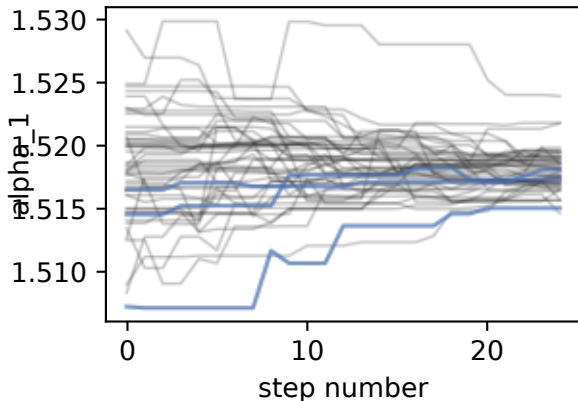
$\log_{10}(e_{\text{break}}) = -0.5018 \pm 0.0005$

$e_{\text{break}} = 0.3149 \pm 0.0004$

posterior distribution



Walker traces



Walkers: 50

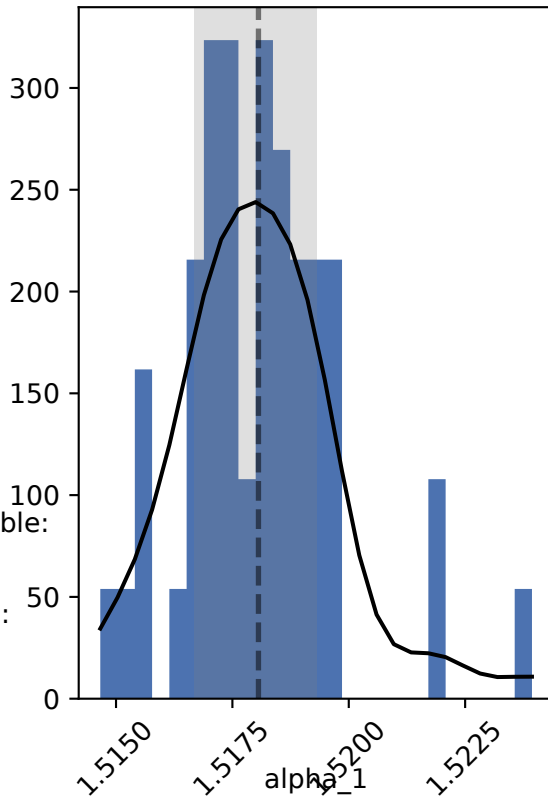
Steps in chain: 25

Mean acceptance fraction: 0.385

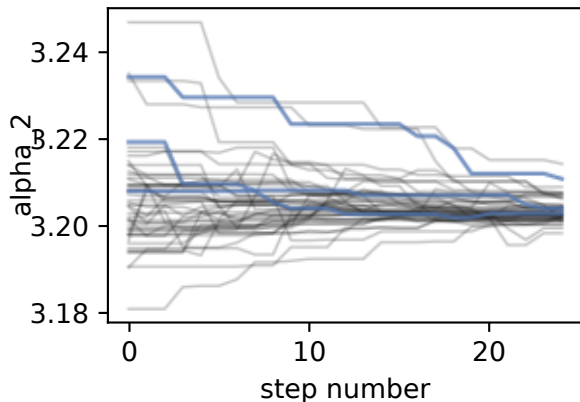
Distribution properties for the last ensemble:

- median: 1.52, std: 0.00167
- median with uncertainties based on the 16th and 84th percentiles ( $\sim 1\sigma$ ):  
 $\alpha_1 = 1.5181 \pm 0.0013$

posterior distribution



Walker traces



Walkers: 50

Steps in chain: 25

Mean acceptance fraction: 0.385

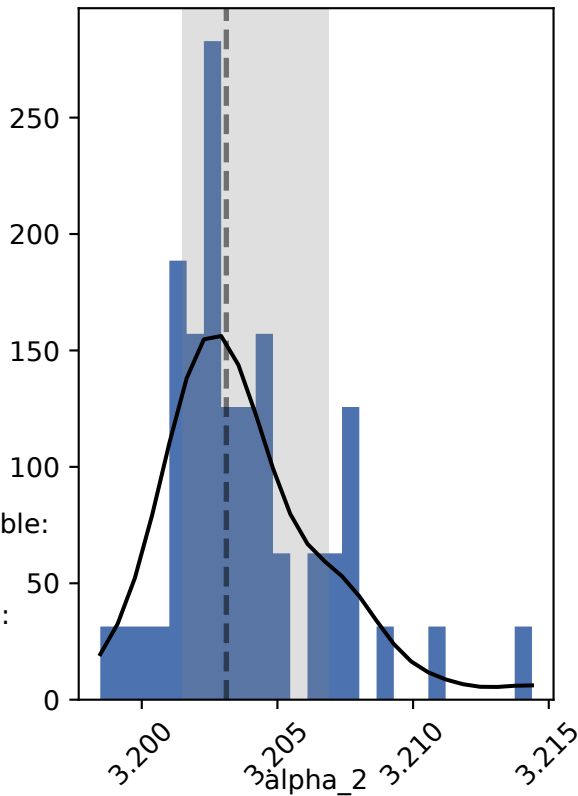
Distribution properties for the last ensemble:

- median: 3.2, std: 0.00292

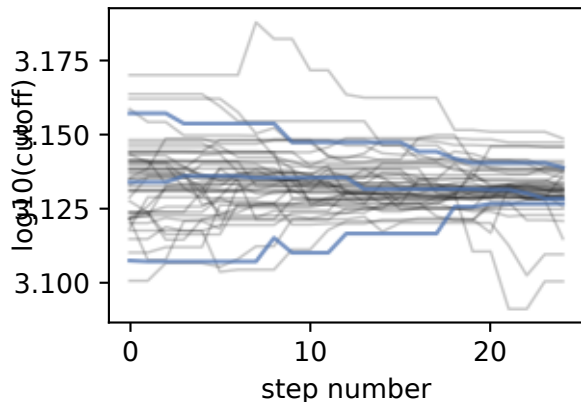
- median with uncertainties based on the 16th and 84th percentiles ( $\sim 1\sigma$ ):

$$\alpha_2 = 3.2031^{+0.004}_{-0.0016}$$

posterior distribution



Walker traces



Walkers: 50

Steps in chain: 25

Mean acceptance fraction: 0.385

Distribution properties for the last ensemble:

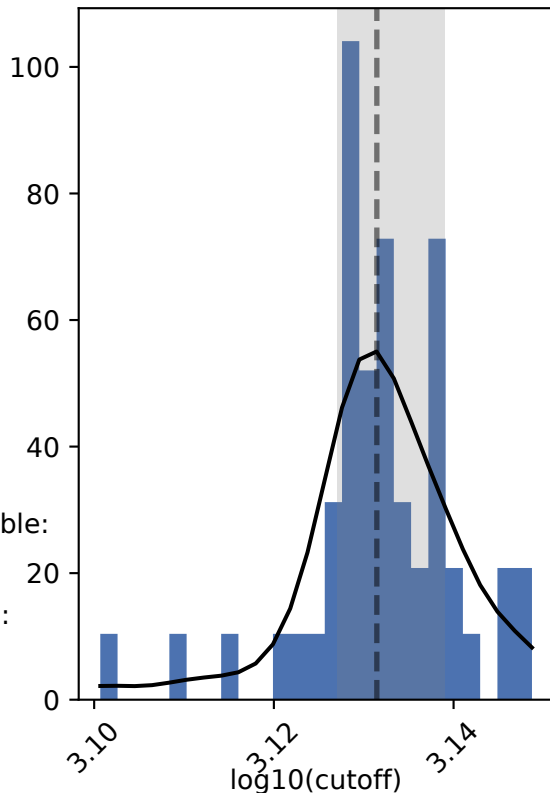
- median: 3.13, std: 0.00853

- median with uncertainties based on the 16th and 84th percentiles ( $\sim 1\sigma$ ):

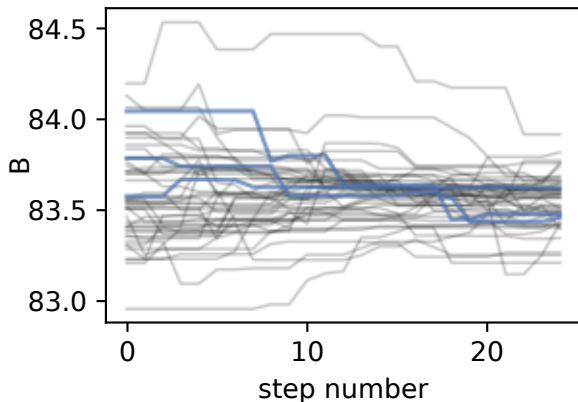
$$\log_{10}(\text{cutoff}) = 3.131^{+0.008}_{-0.004}$$

$$\text{cutoff} = (1.354^{+0.02}_{-0.014}) \times 10^3$$

posterior distribution



Walker traces



Walkers: 50

Steps in chain: 25

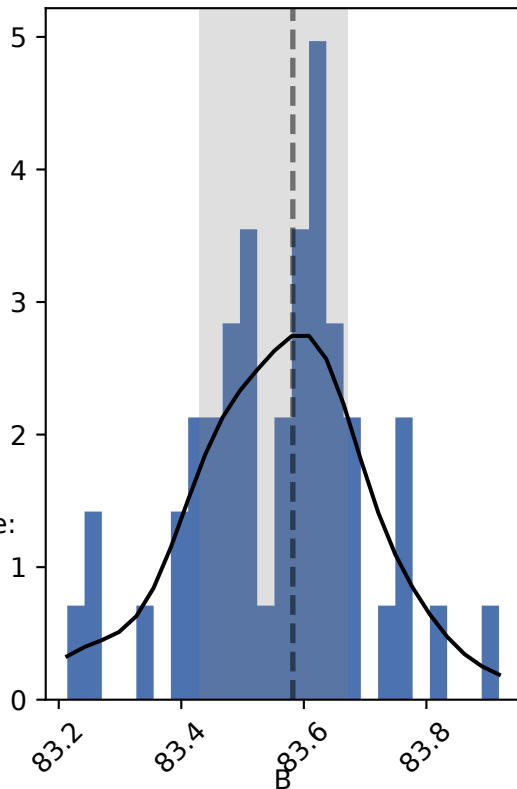
Mean acceptance fraction: 0.385

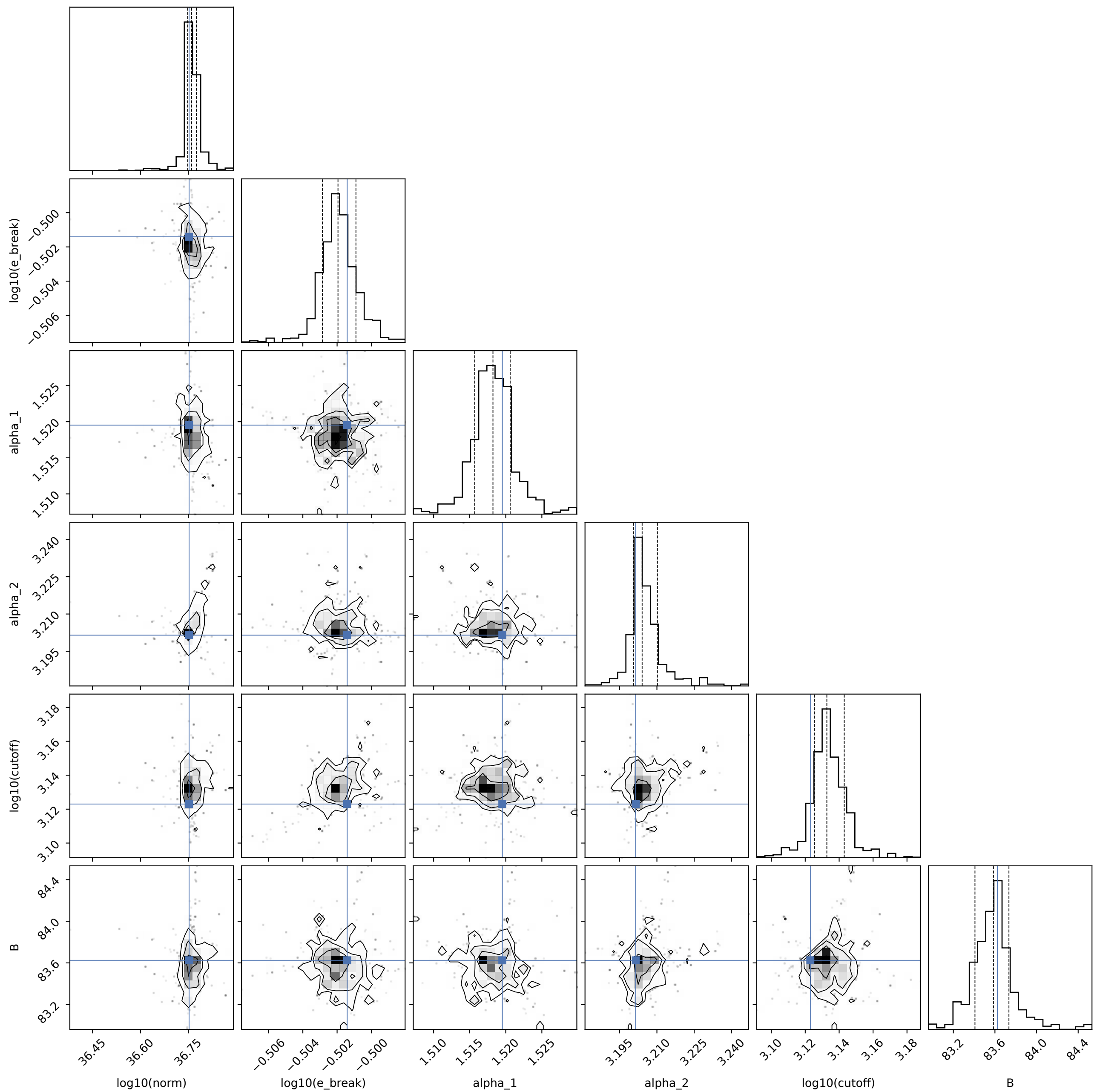
Distribution properties for the last ensemble:

- median: 83.6, std: 0.14
- median with uncertainties based on the 16th and 84th percentiles ( $\sim 1\sigma$ ):

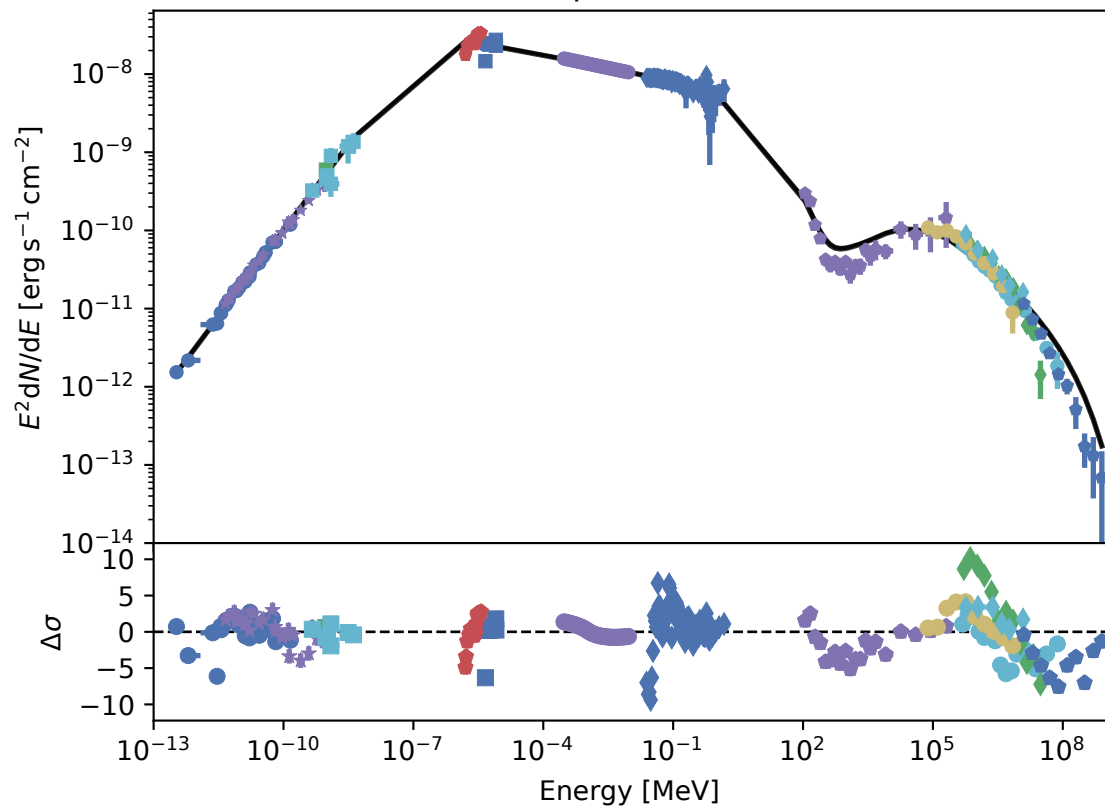
$$B = 83.58^{+0.09}_{-0.15}$$

posterior distribution



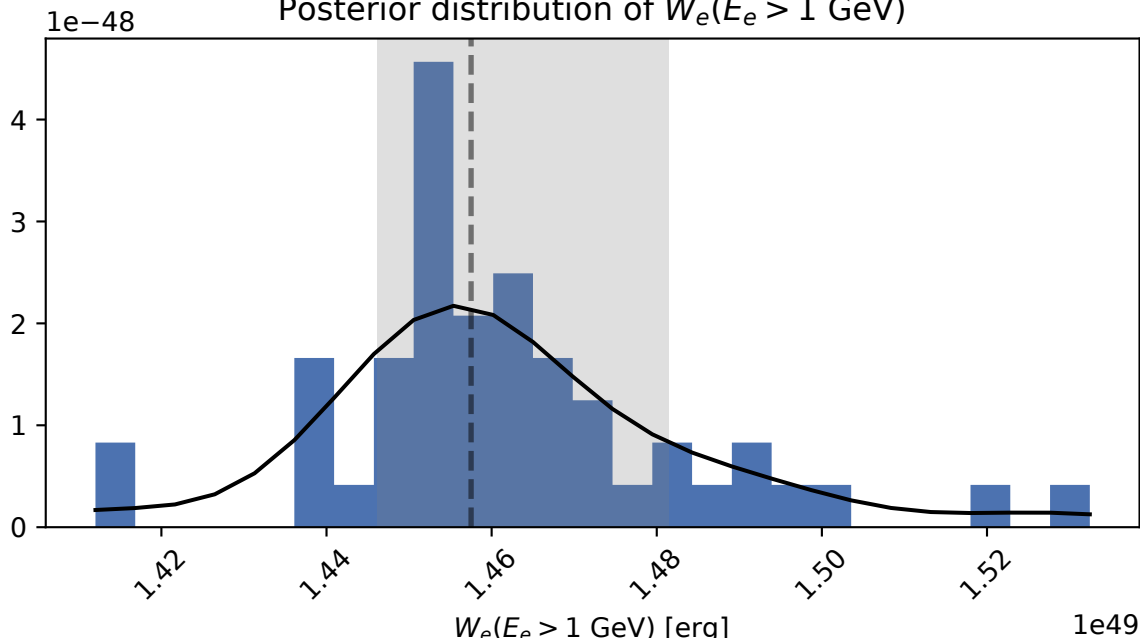


Spectrum





Posterior distribution of  $W_e(E_e > 1 \text{ GeV})$



$W_e(E_e > 1 \text{ GeV})$  distribution properties:

- median:  $1.46 \times 10^{49} \text{ erg}$ , std:  $2.21 \times 10^{47} \text{ erg}$
- Median with uncertainties based on the 16th and 84th percentiles ( $\sim 1\sigma$ ):  
 $W_e(E_e > 1 \text{ GeV}) = (1.458^{+0.02}_{-0.011}) \times 10^{49} \text{ erg}$