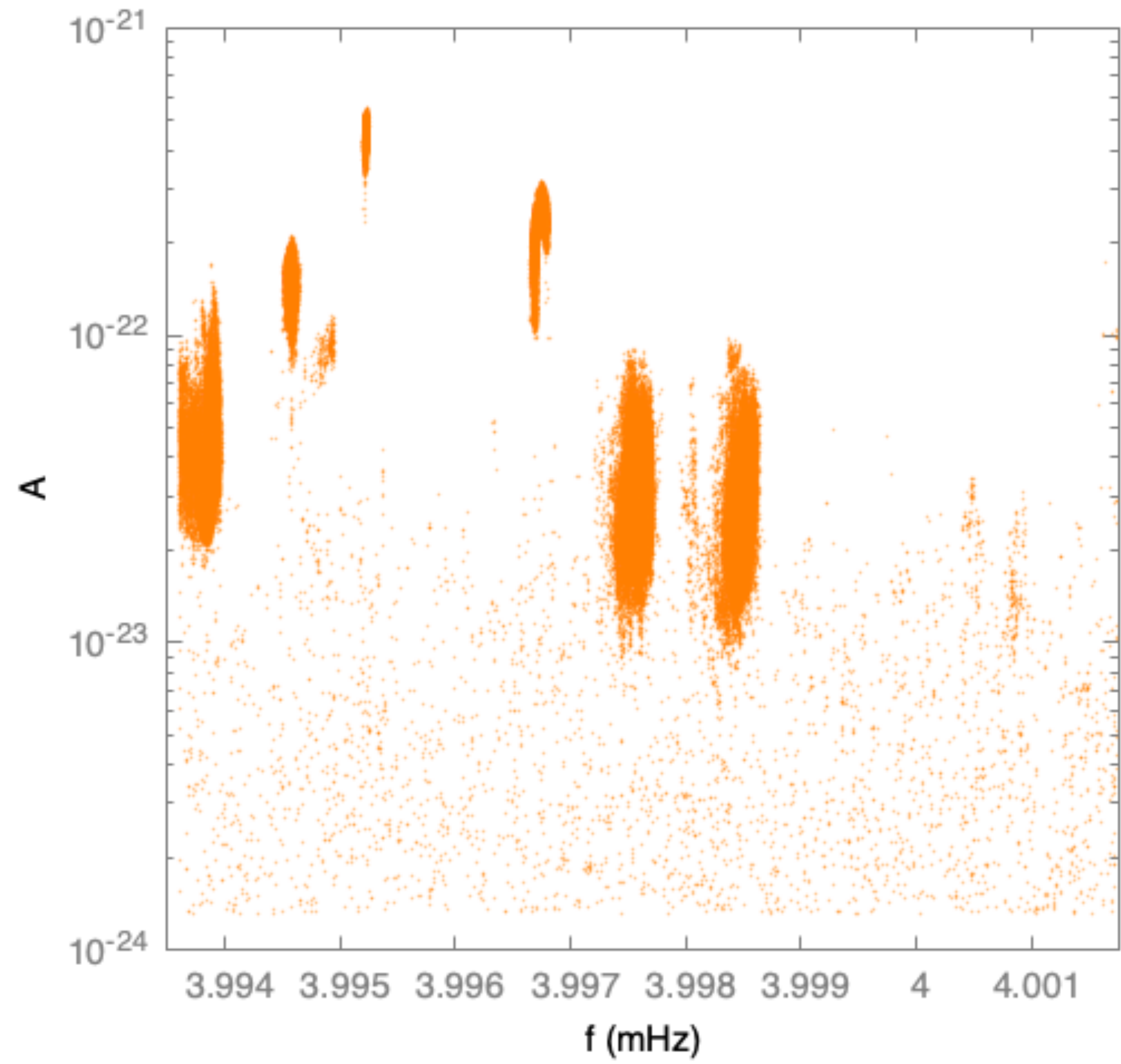
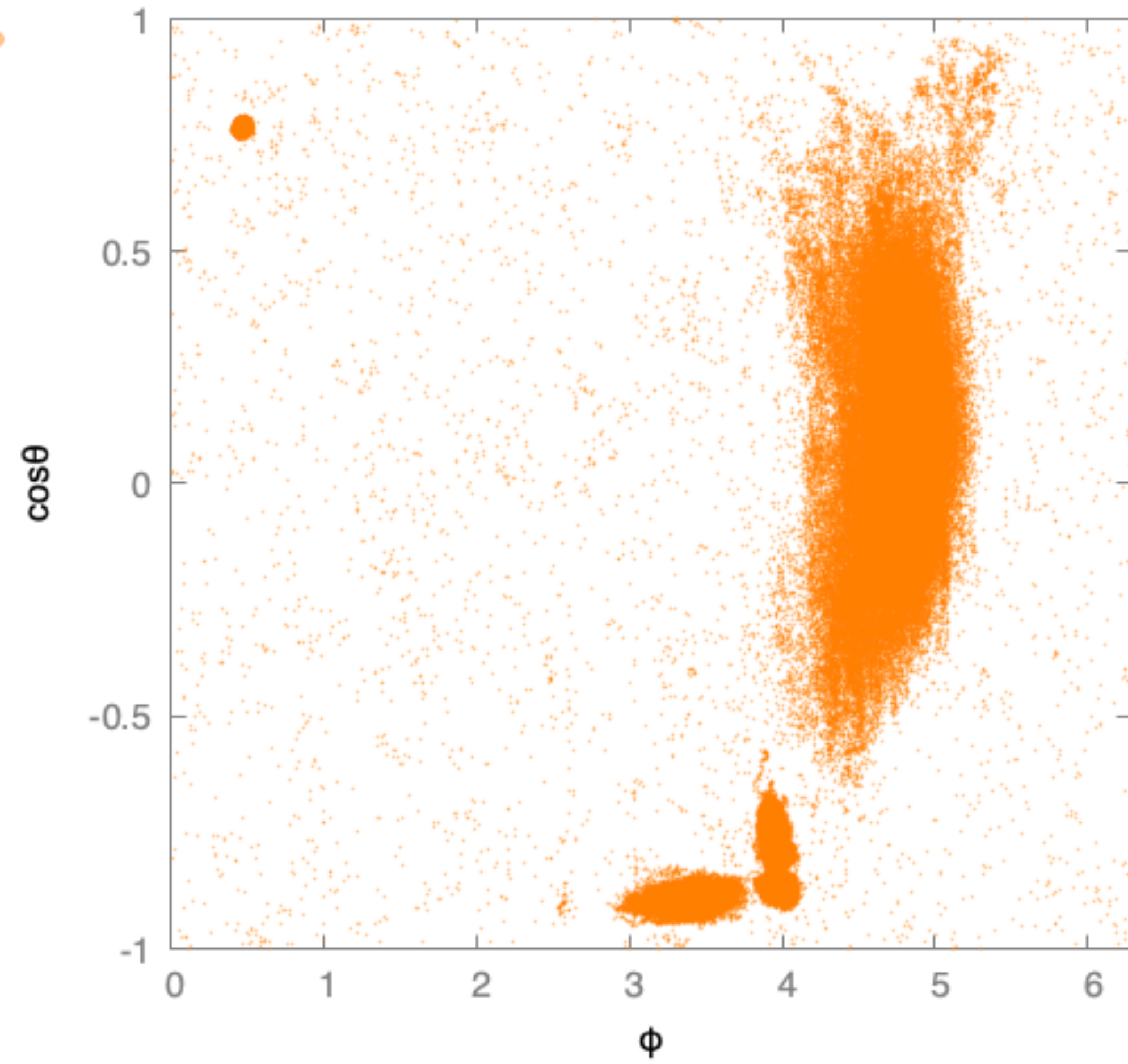


“How do you turn Global Fit posterior samples into a **source catalog**?”

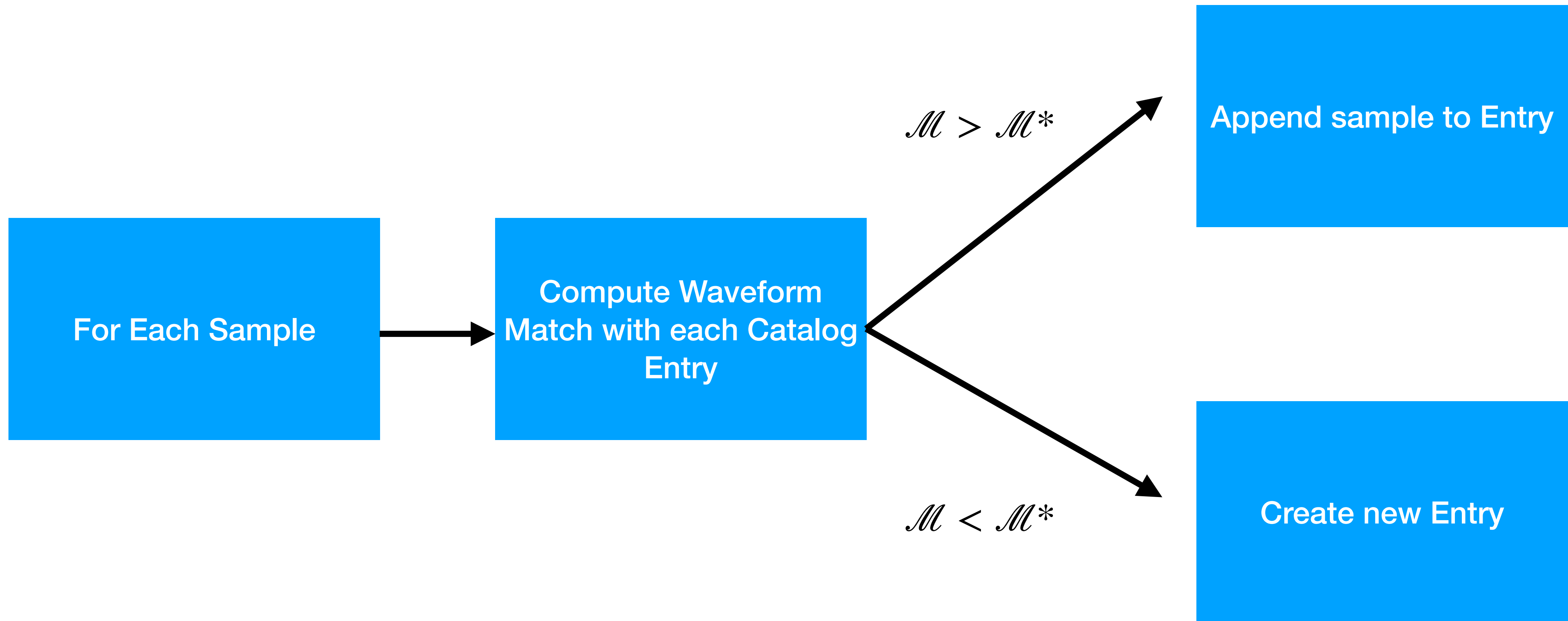


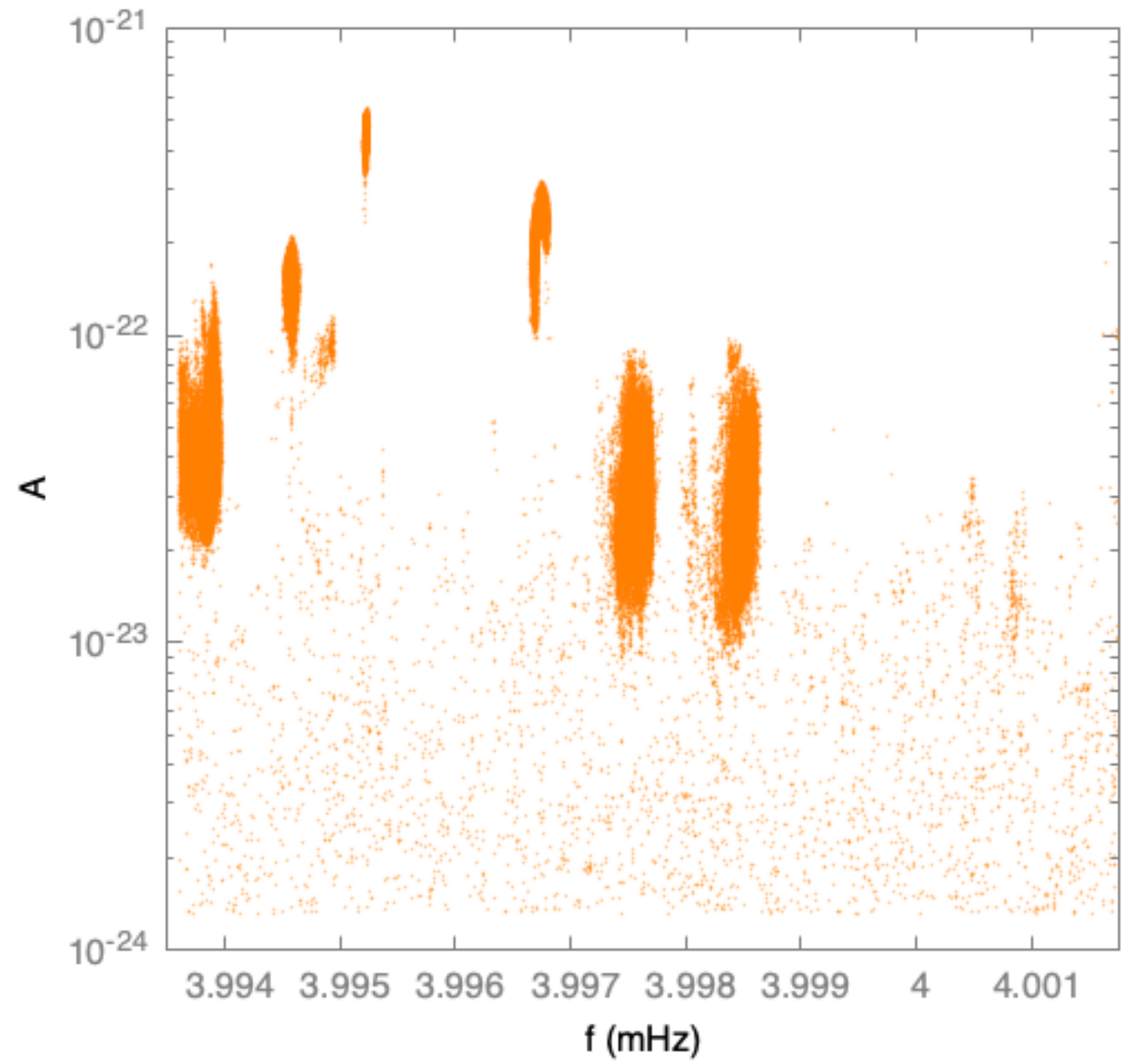
D = 6



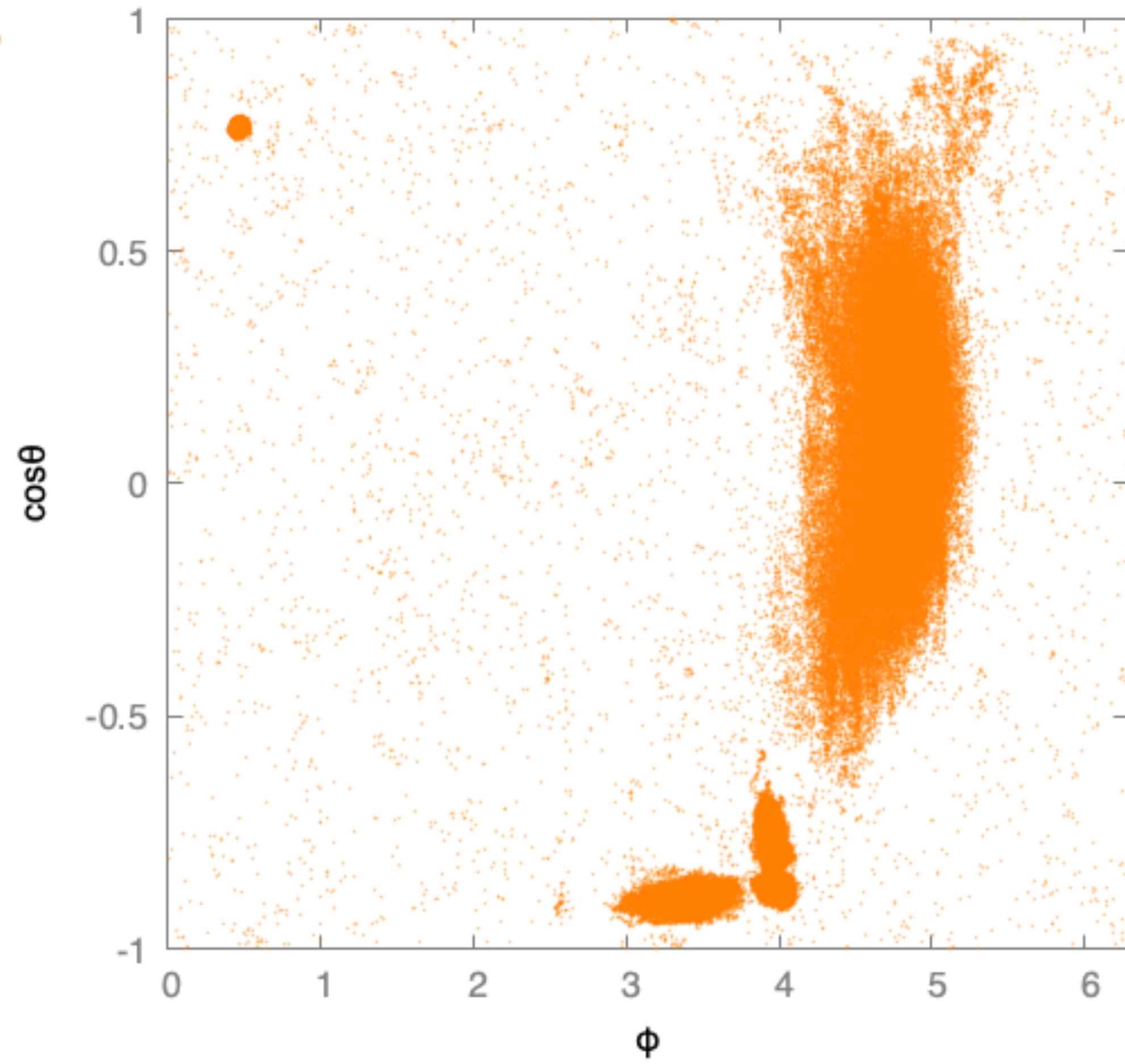
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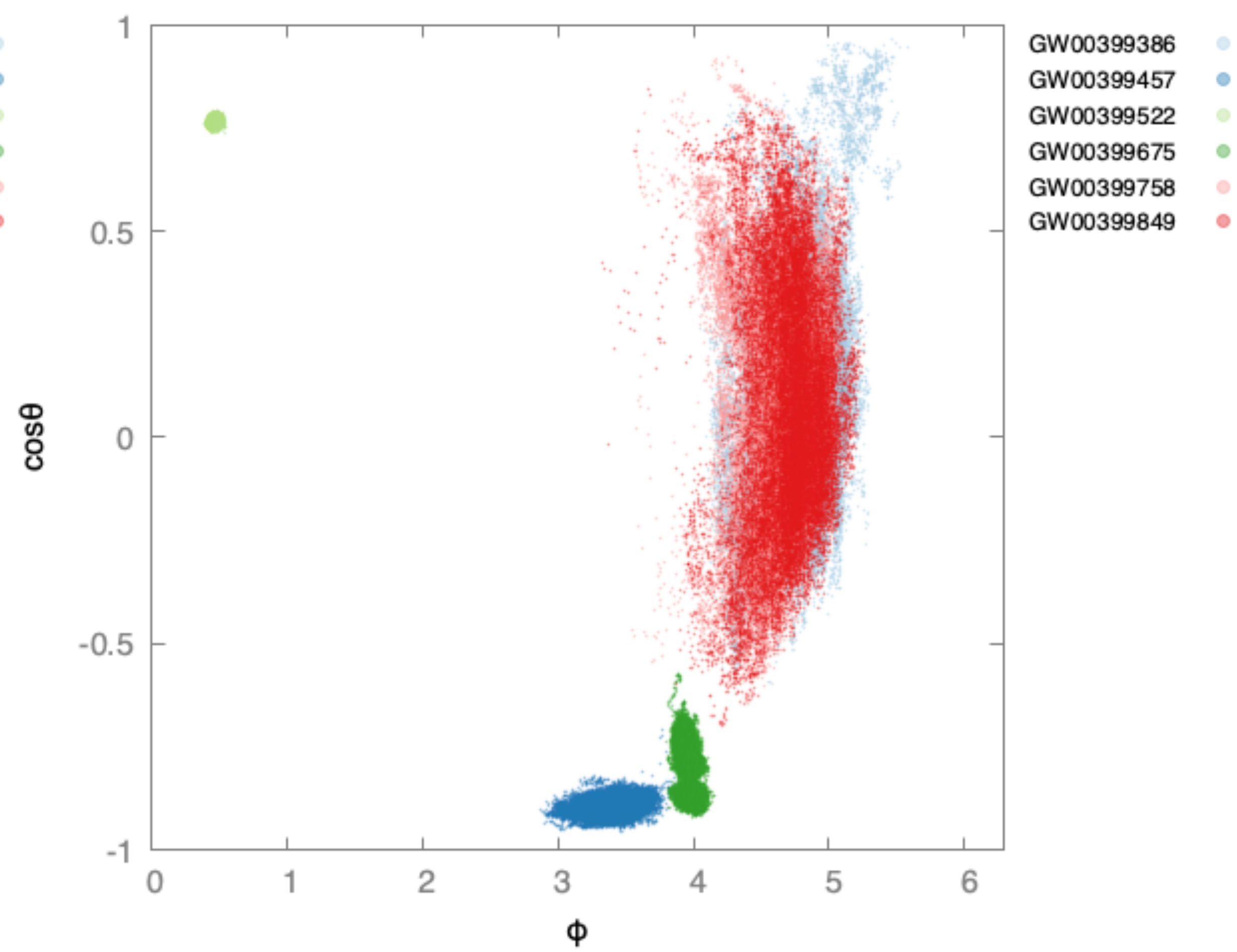
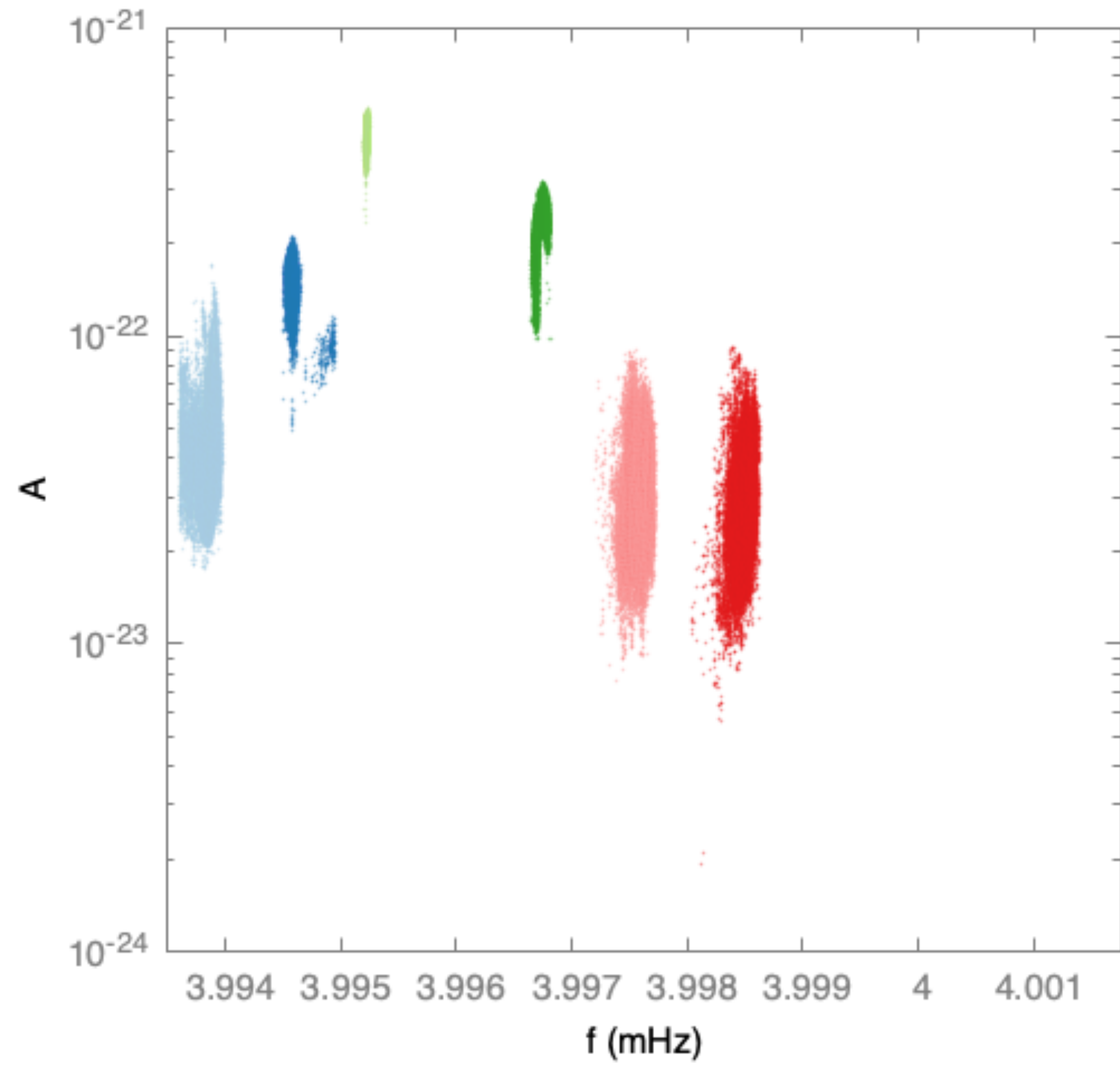


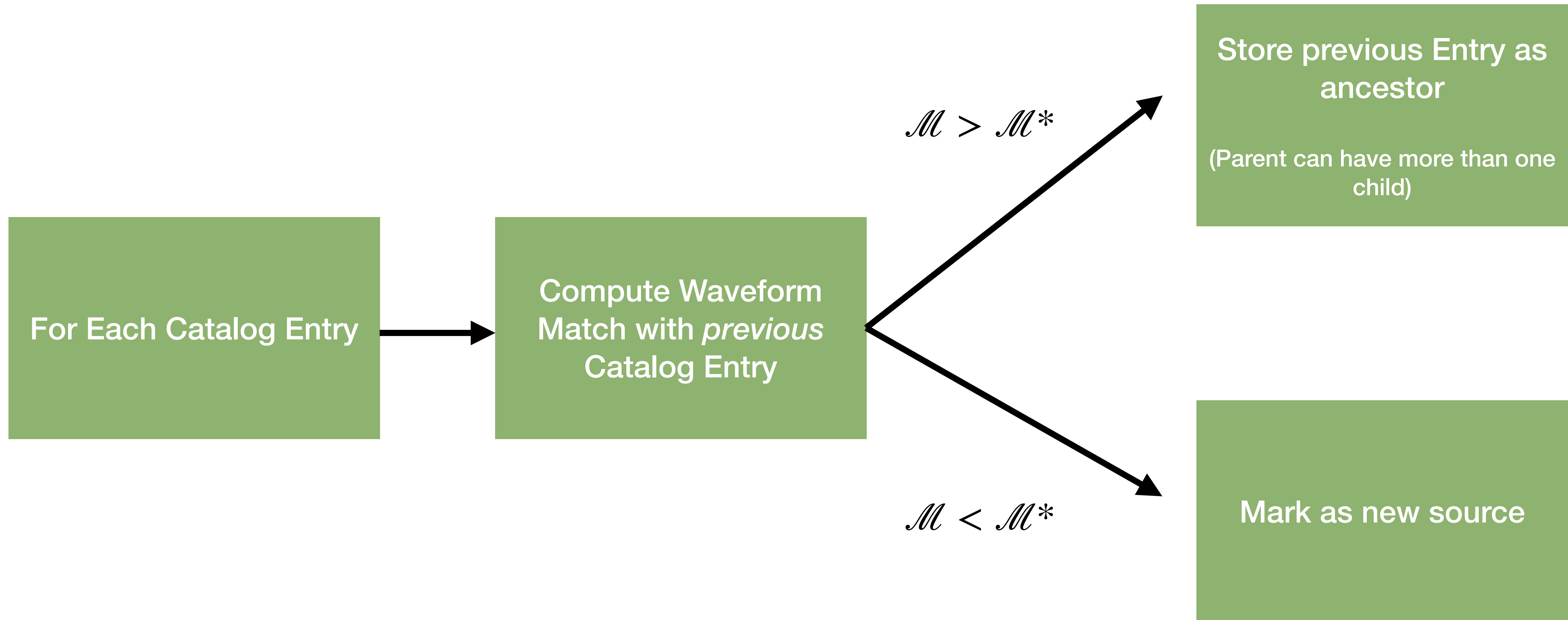
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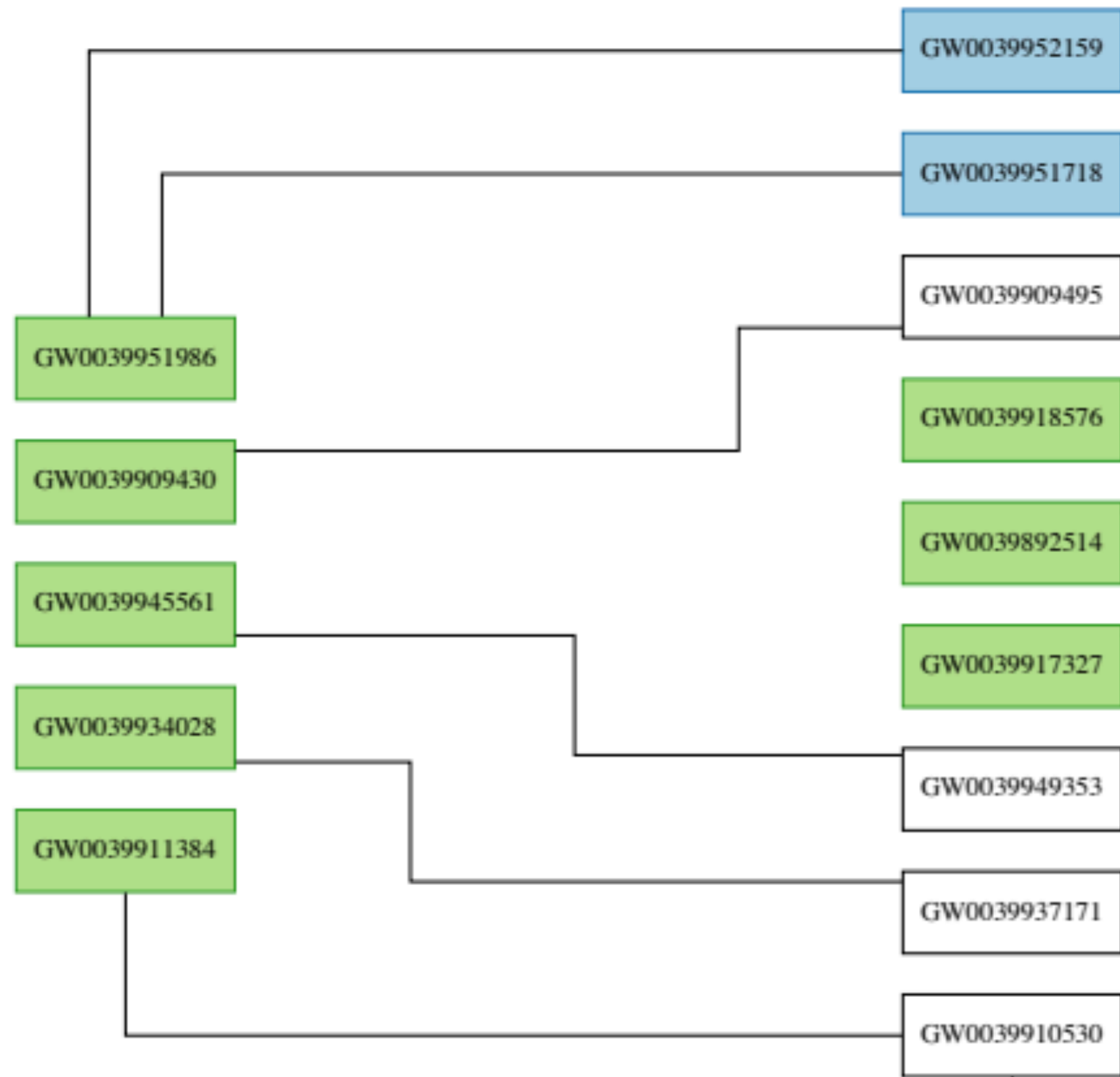


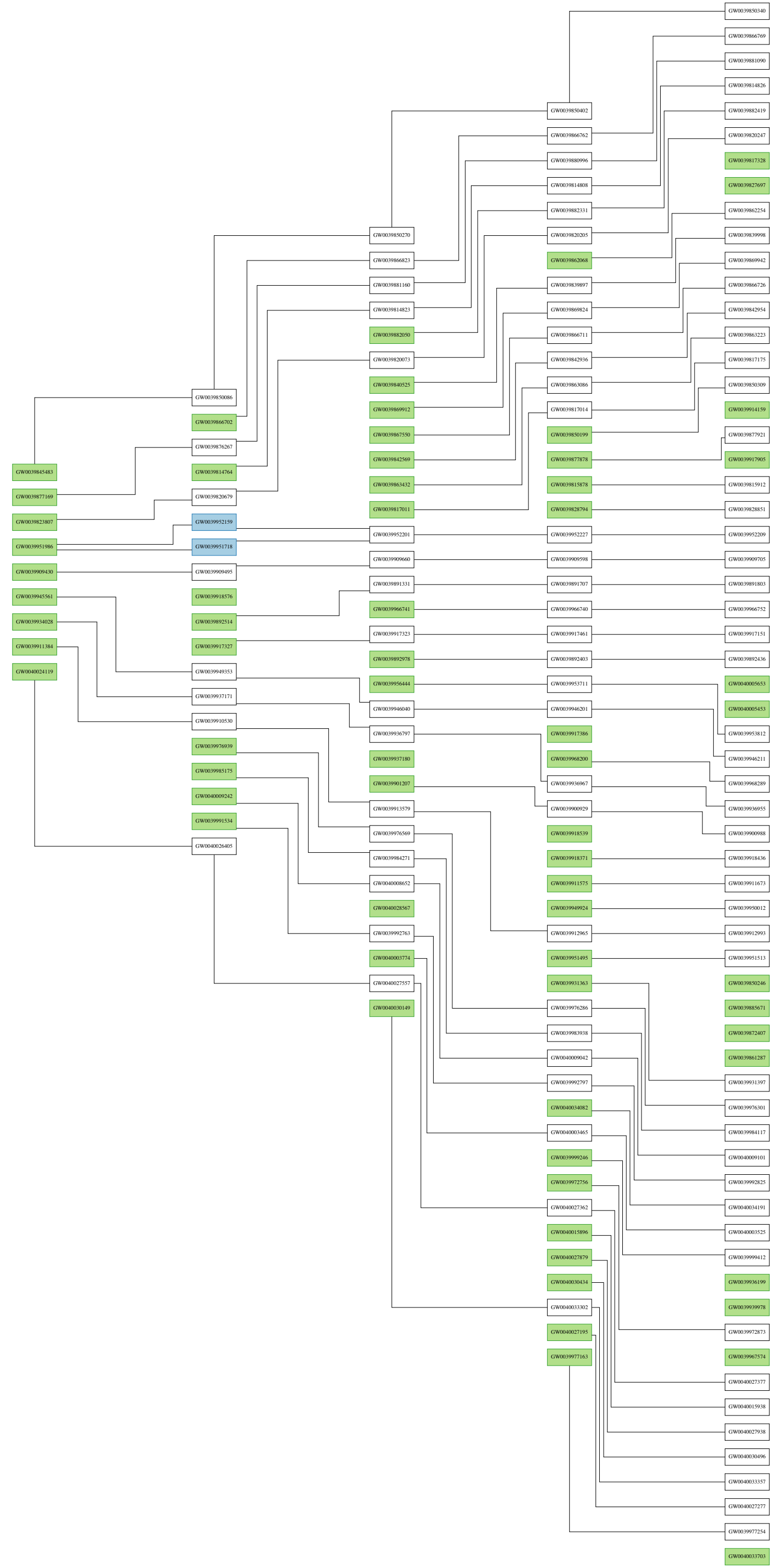
D = 6











CATALOG

N

Evidence

Raw Samples

Noise fit

Residual

...

ENTRY 1

Evidence

Name

Cij

SNR

Ancestry

Point Estimate

Sample 1

Parameters

Waveform

Sample 2

Parameters

Waveform

...

Sample I

Parameters

Waveform

ENTRY 2

Evidence

Name

Cij

SNR

Ancestry

Point Estimate

Sample 1

Parameters

Waveform

Sample 2

Parameters

Waveform

...

Sample I

Parameters

Waveform

...

ENTRY N

Evidence

Name

Cij

SNR

Ancestry

Point Estimate

Sample 1

Parameters

Waveform

Sample 2

Parameters

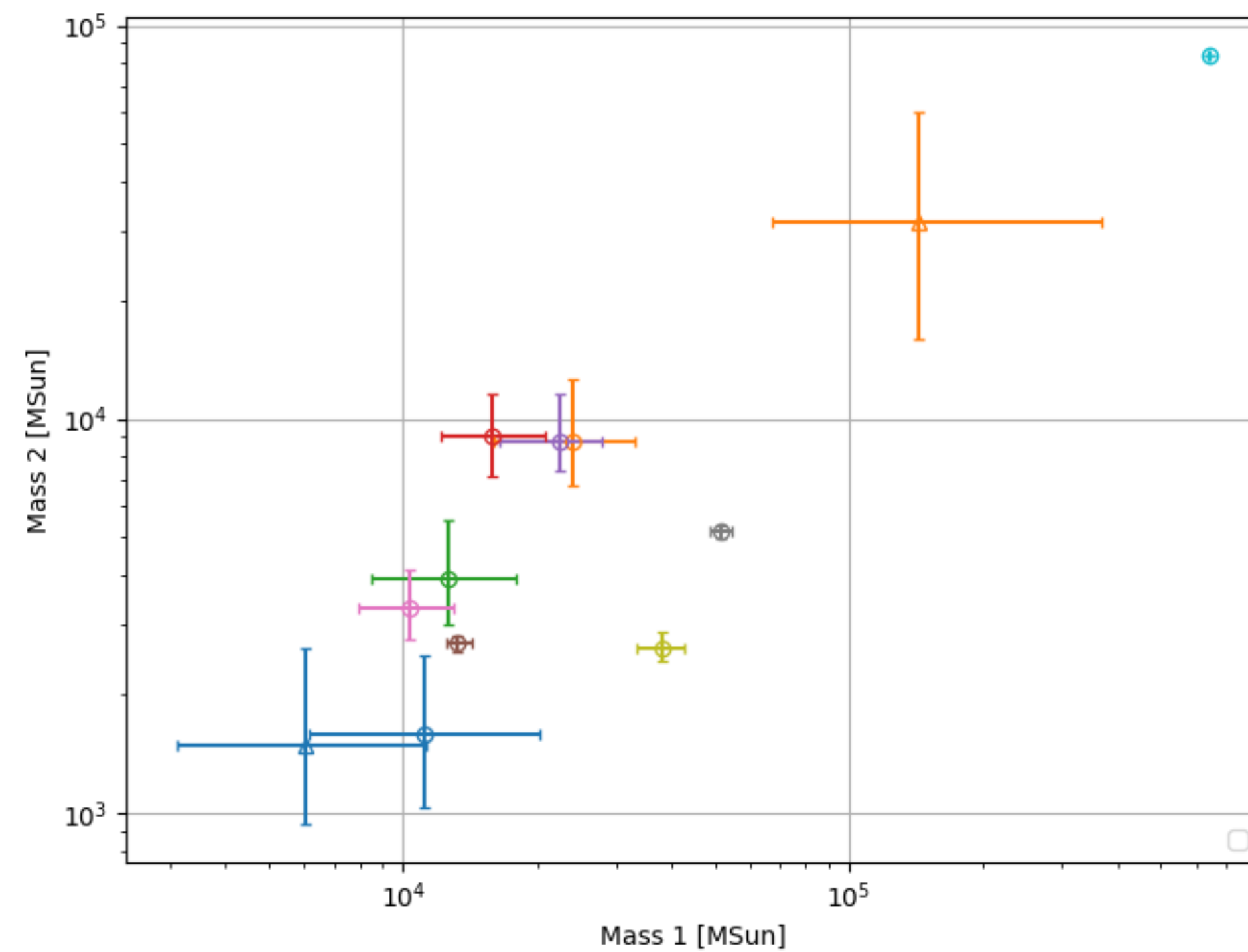
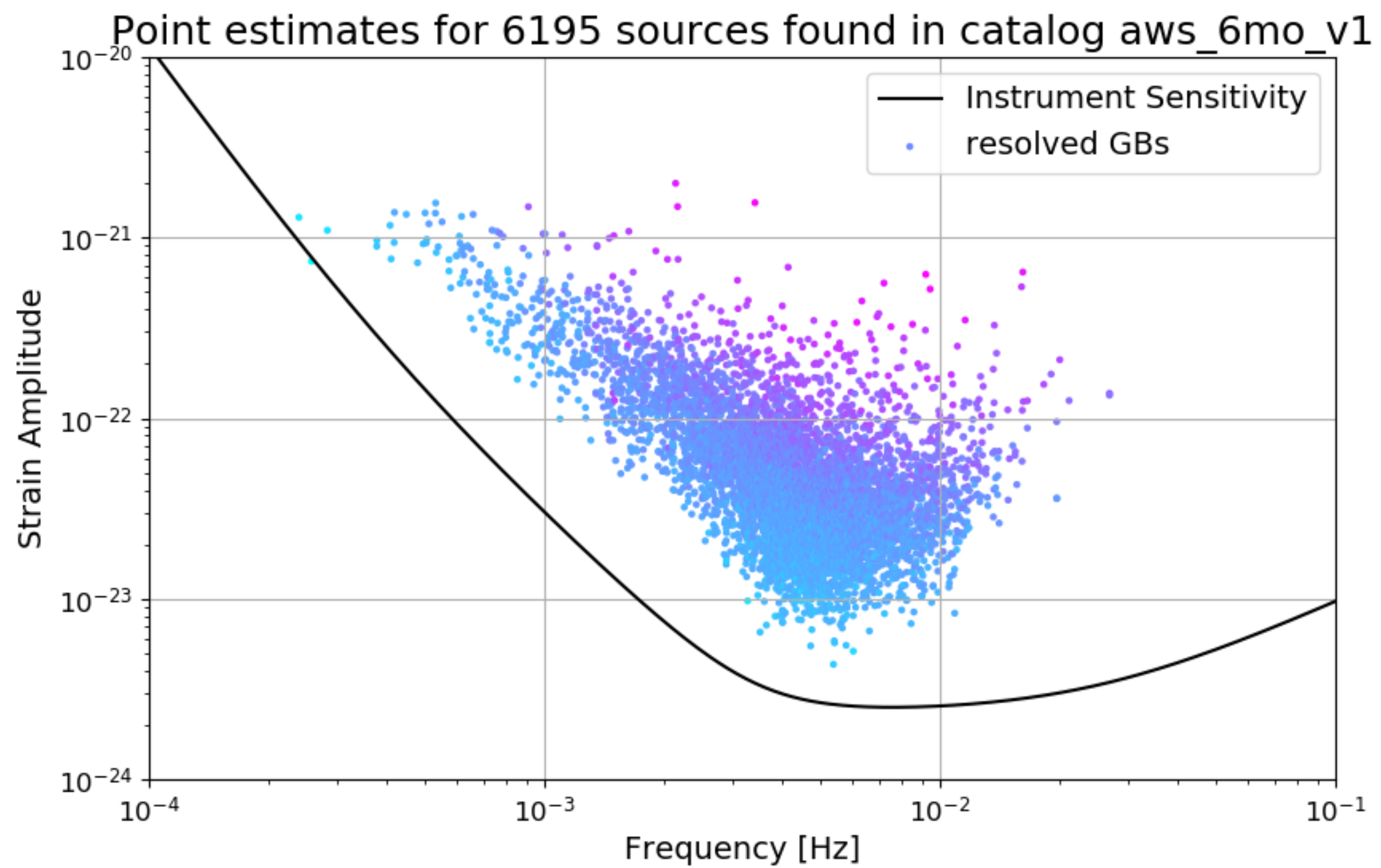
Waveform

...

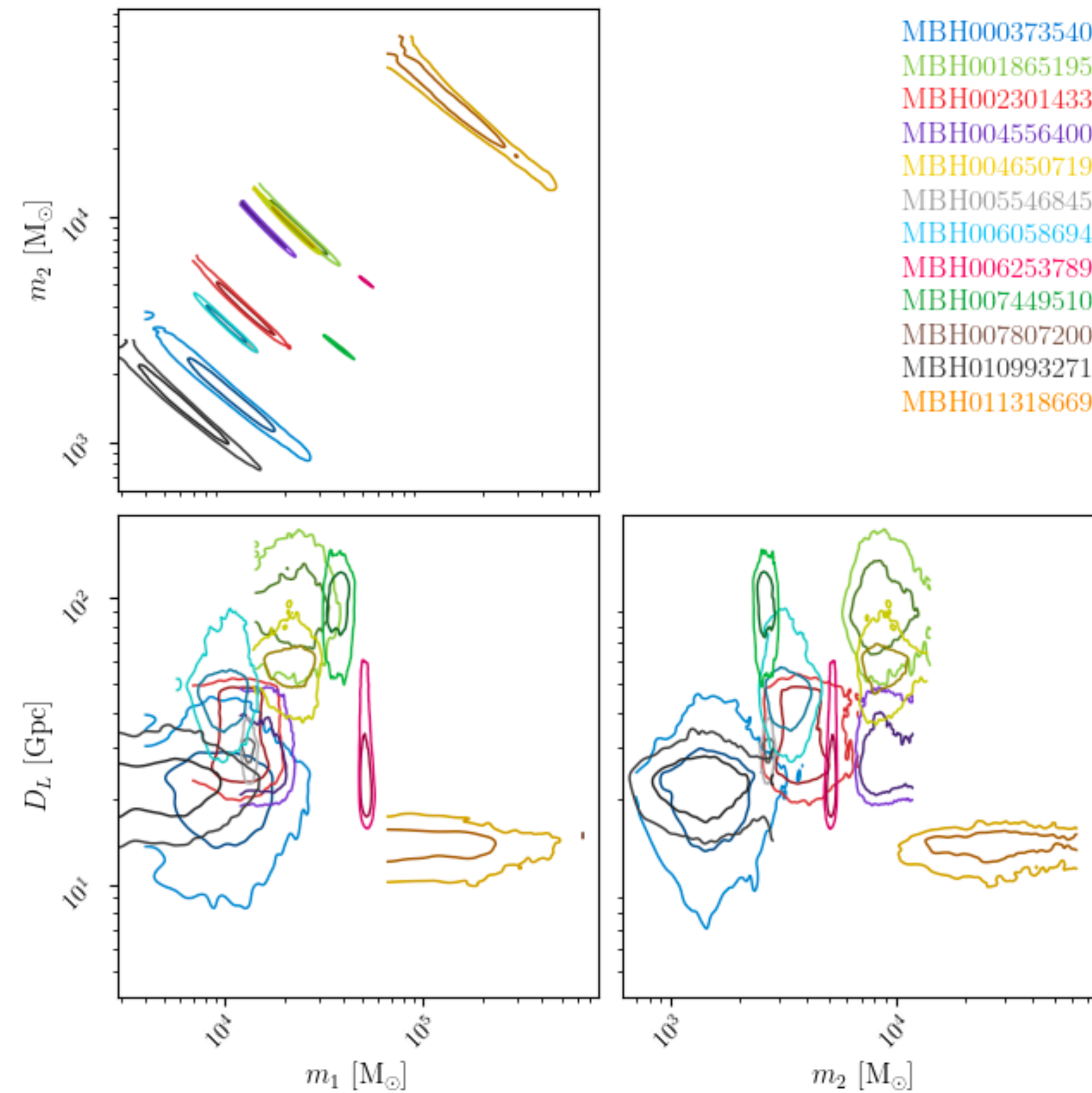
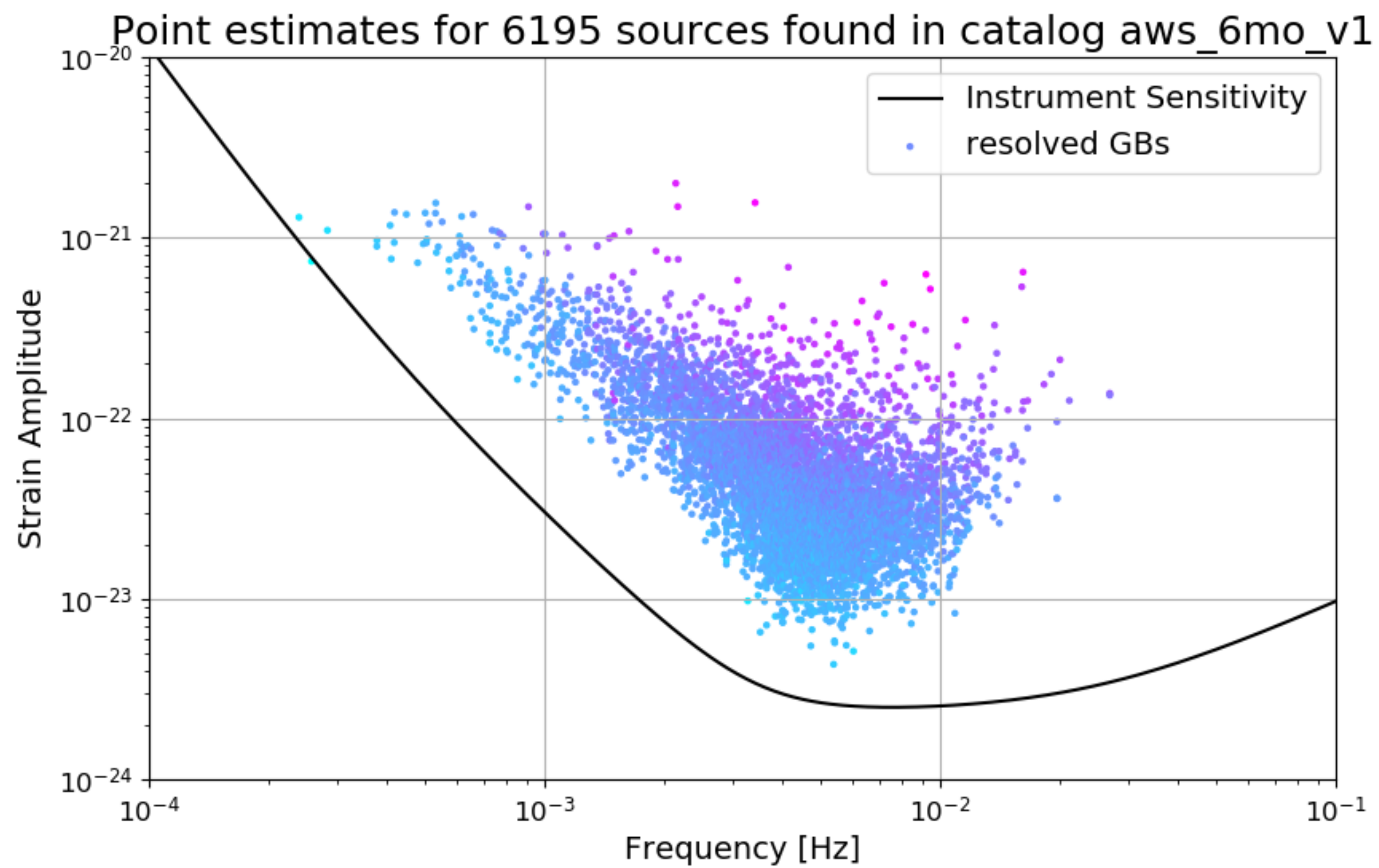
Sample I

Parameters

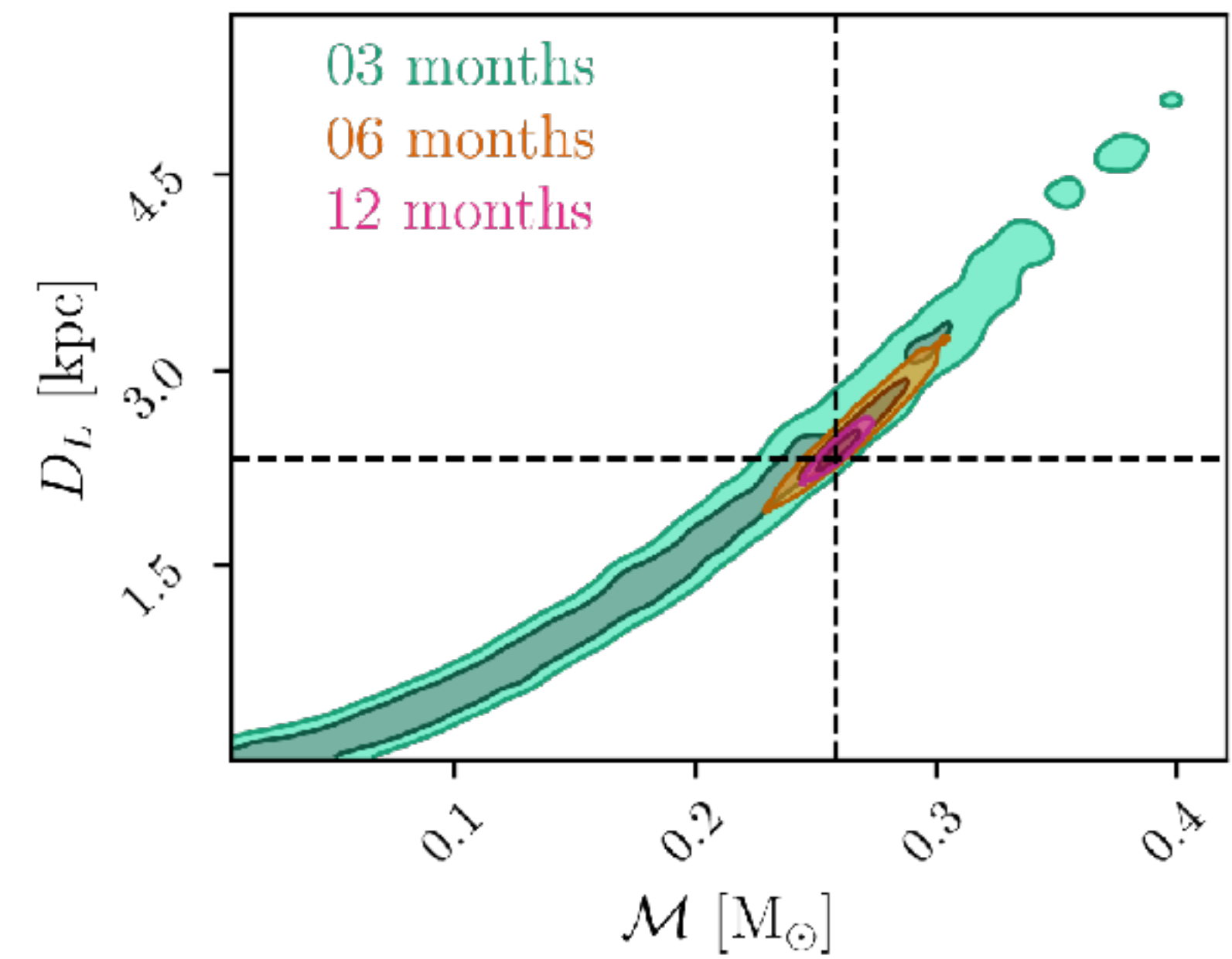
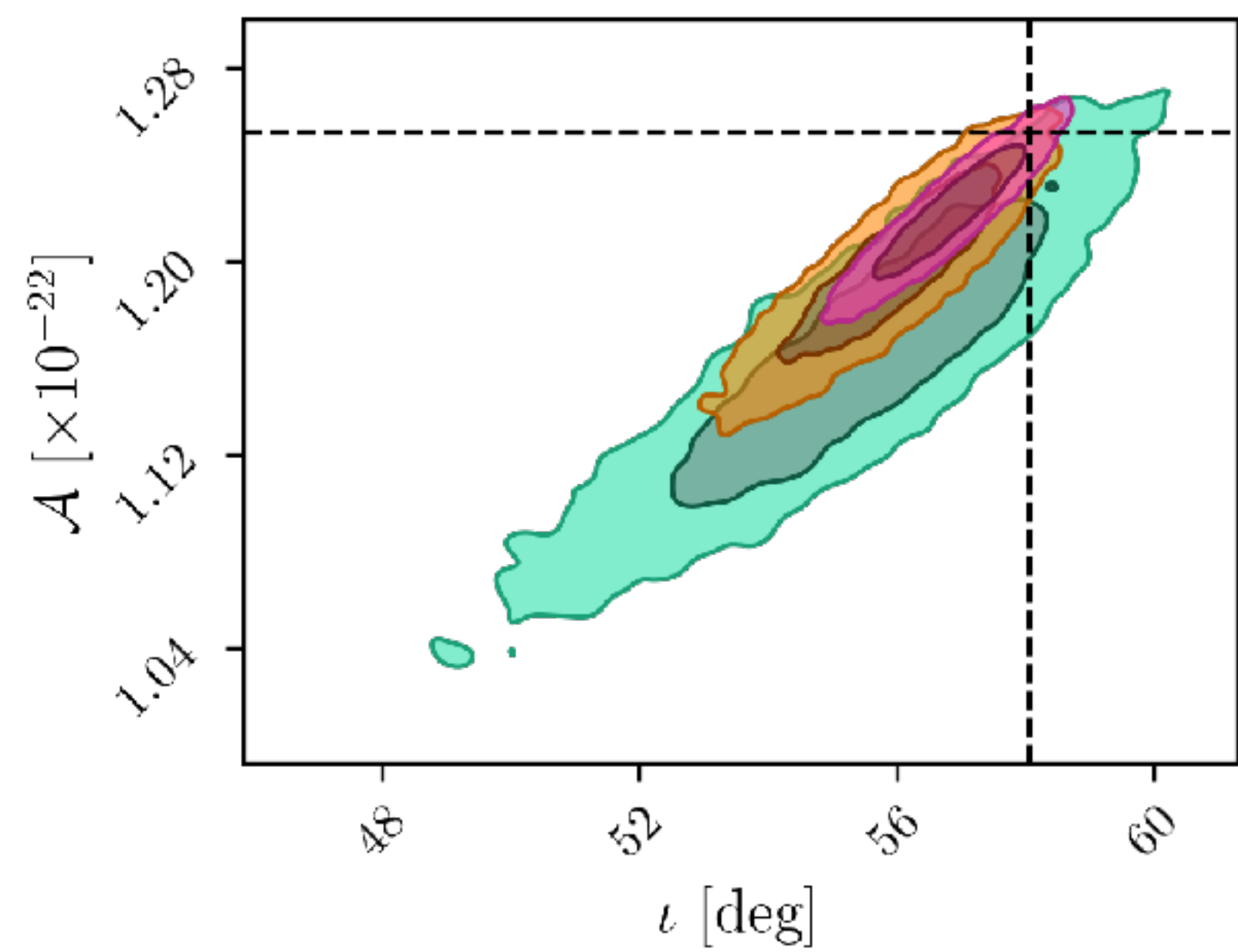
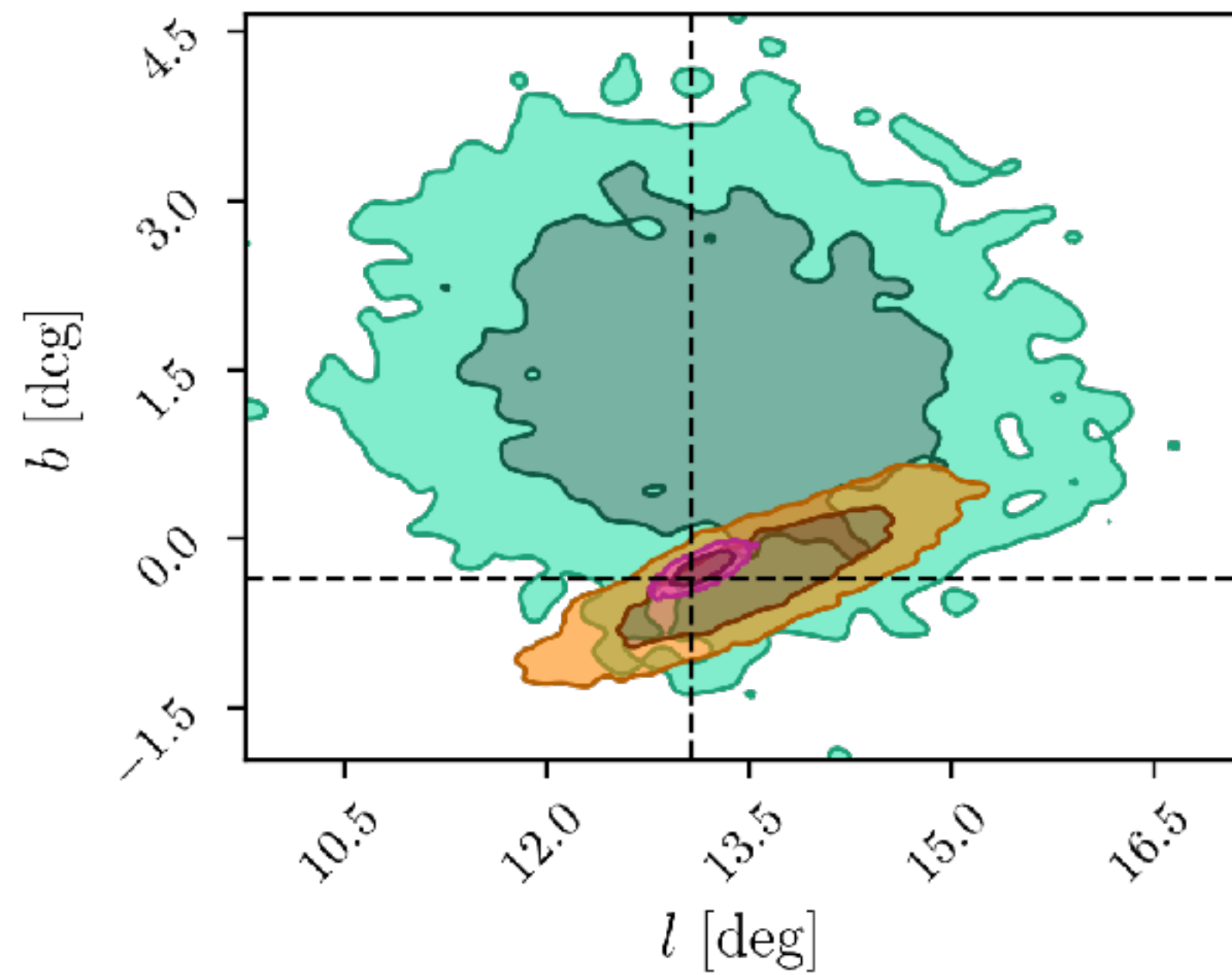
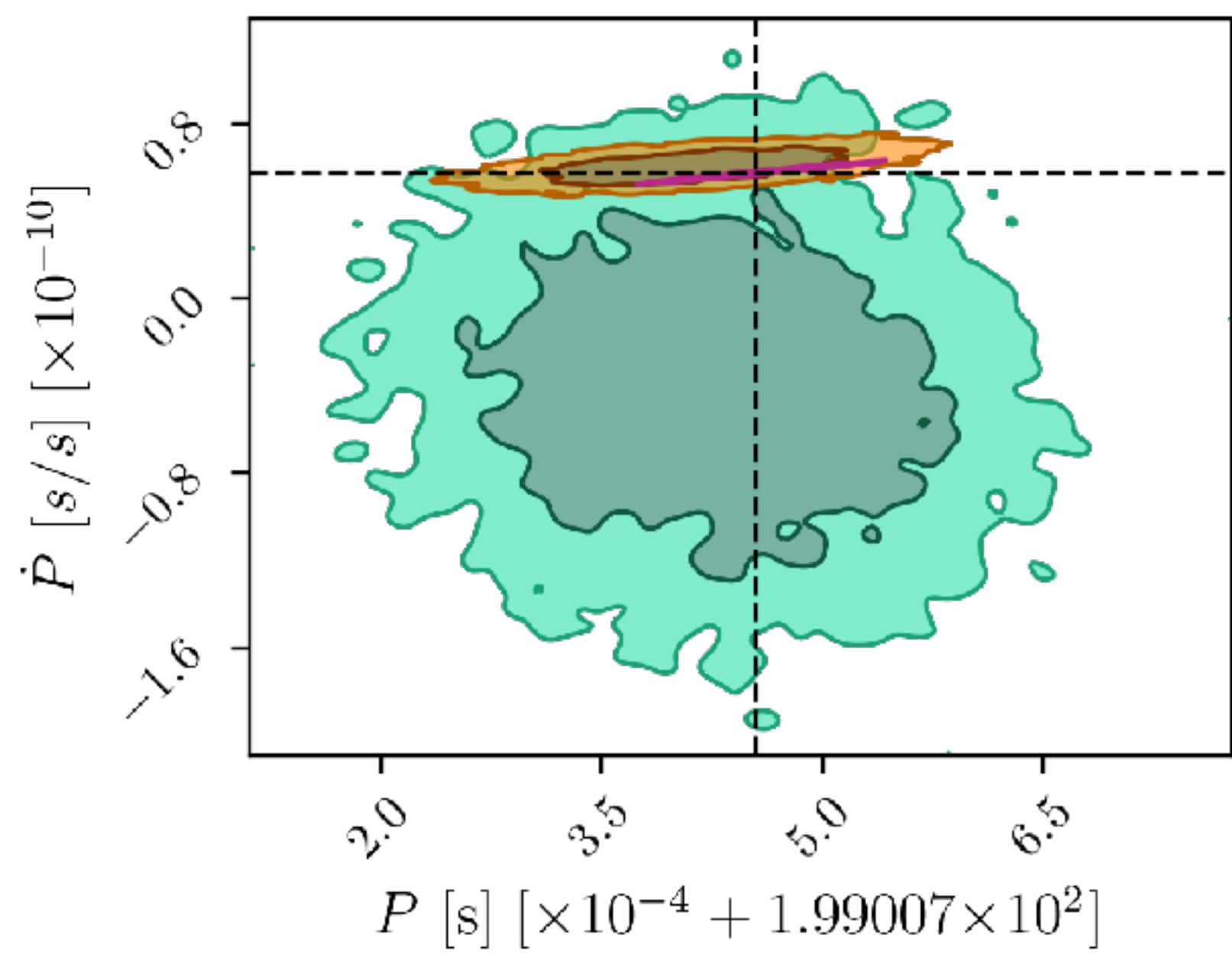
Waveform

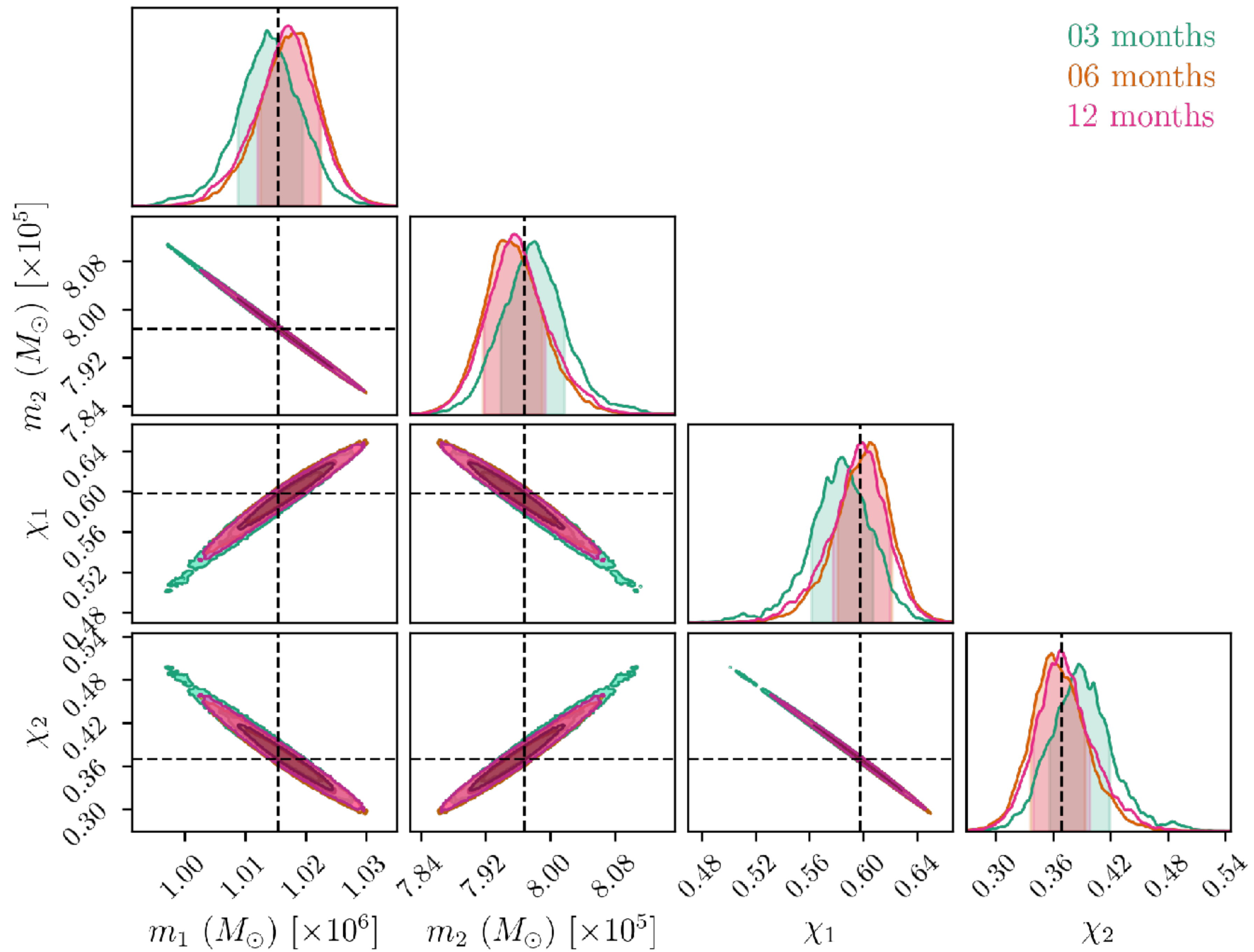


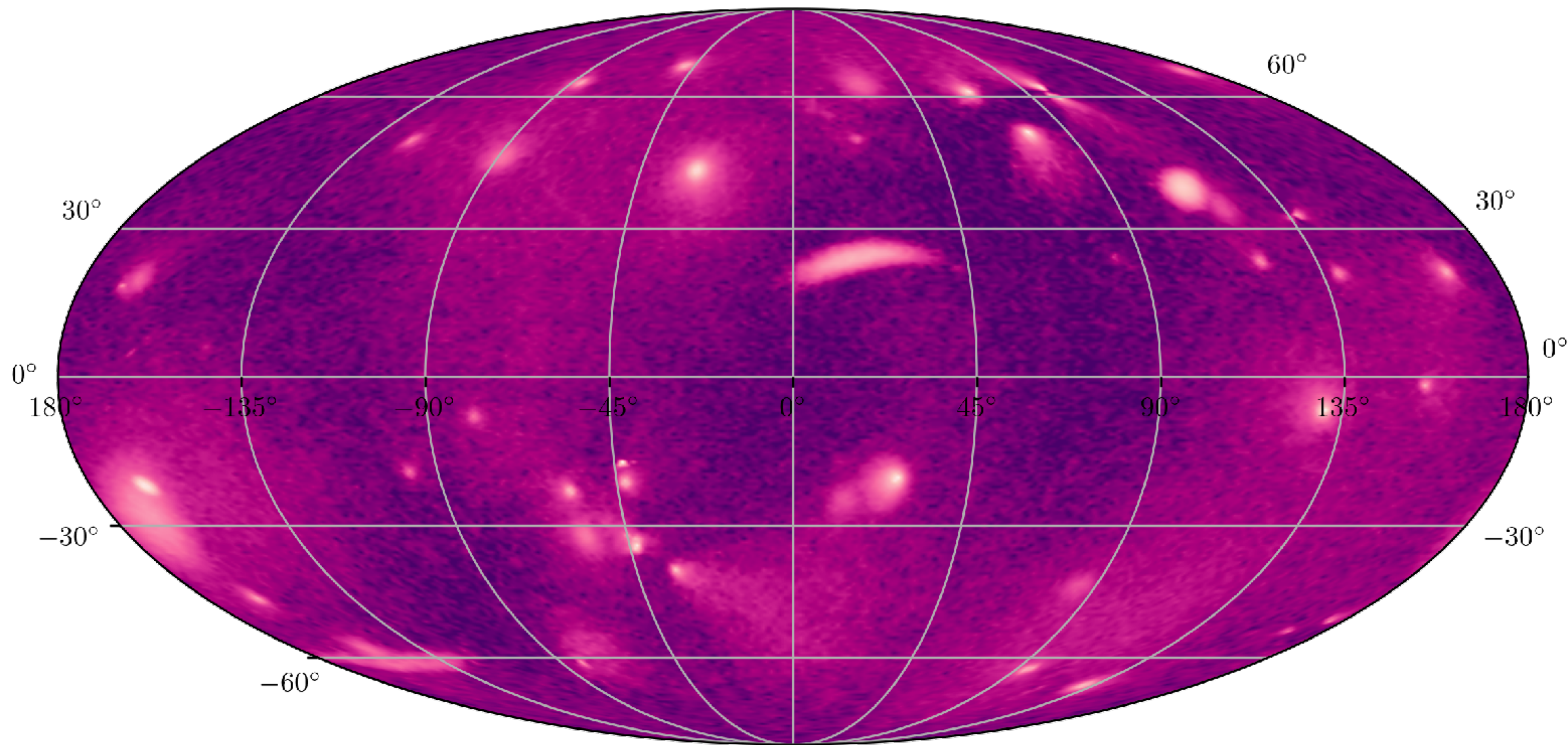
<https://tlittenberg.github.io/lisacattools/>

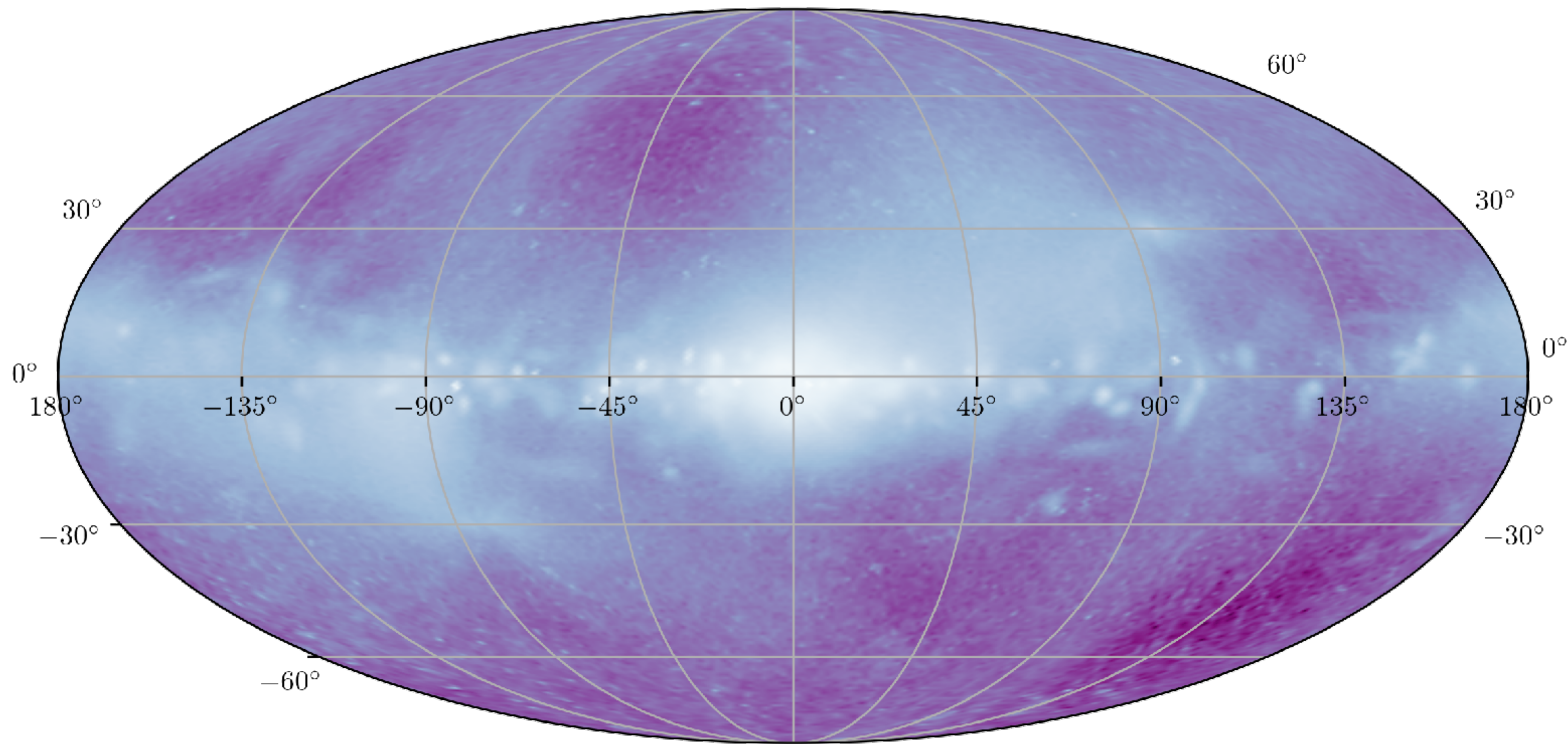


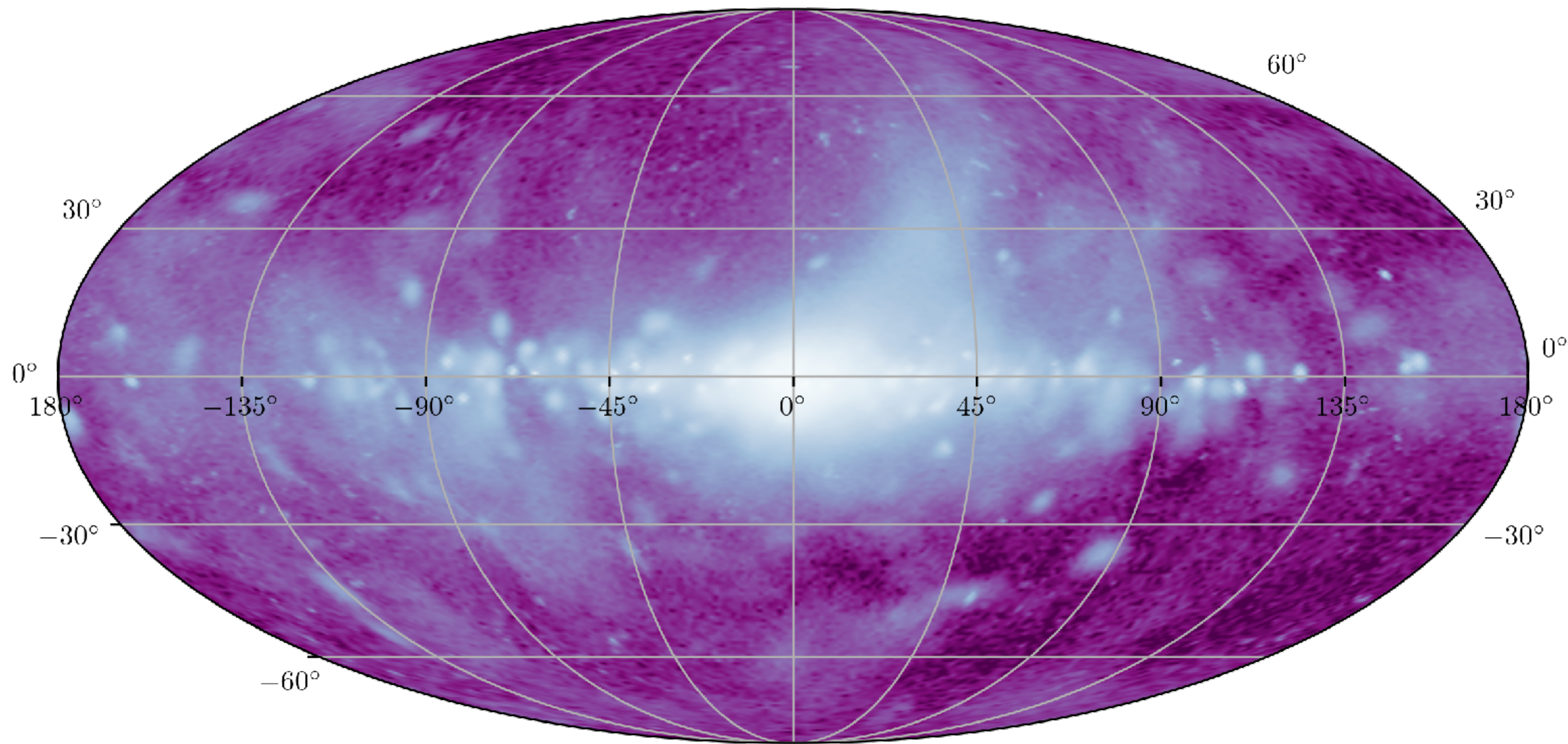
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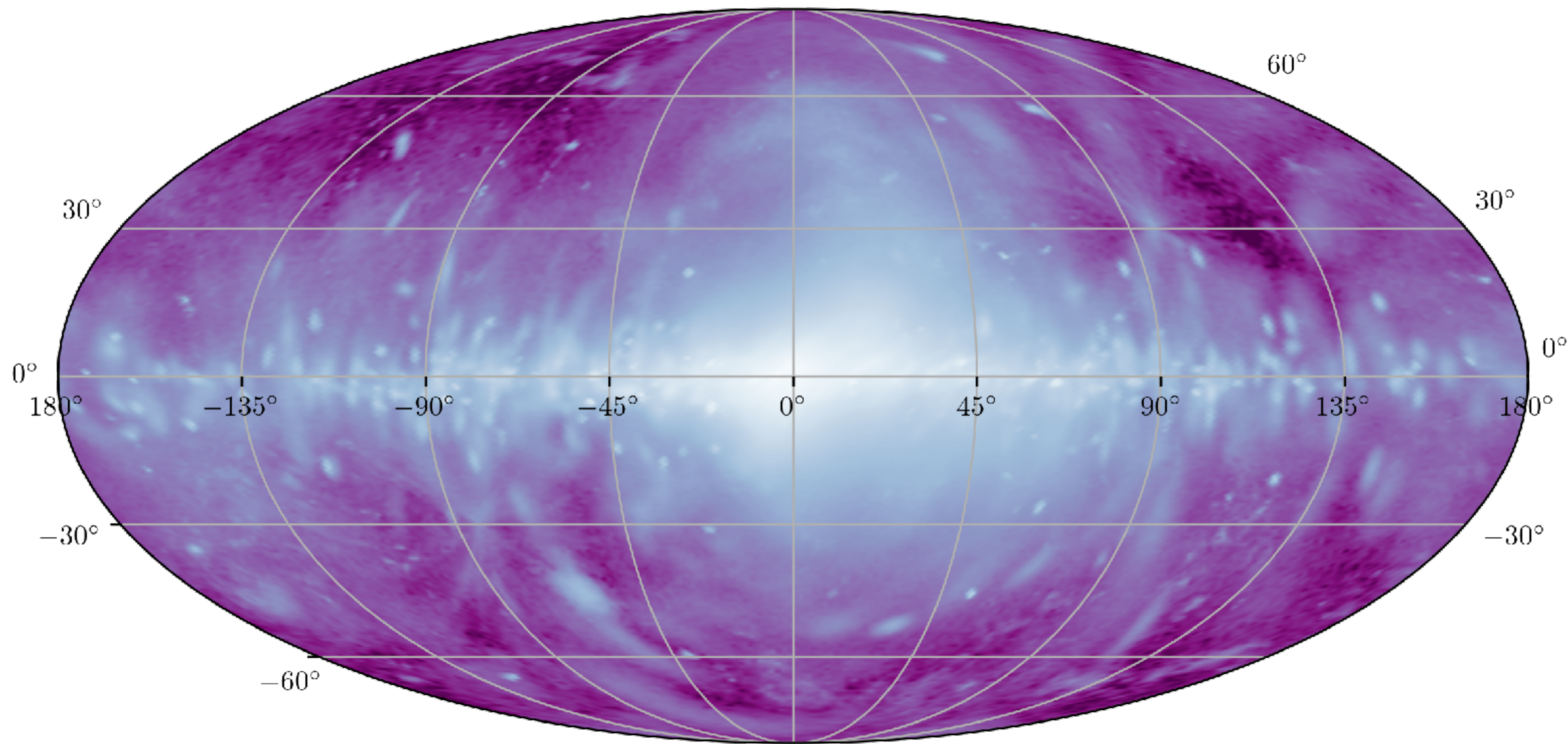


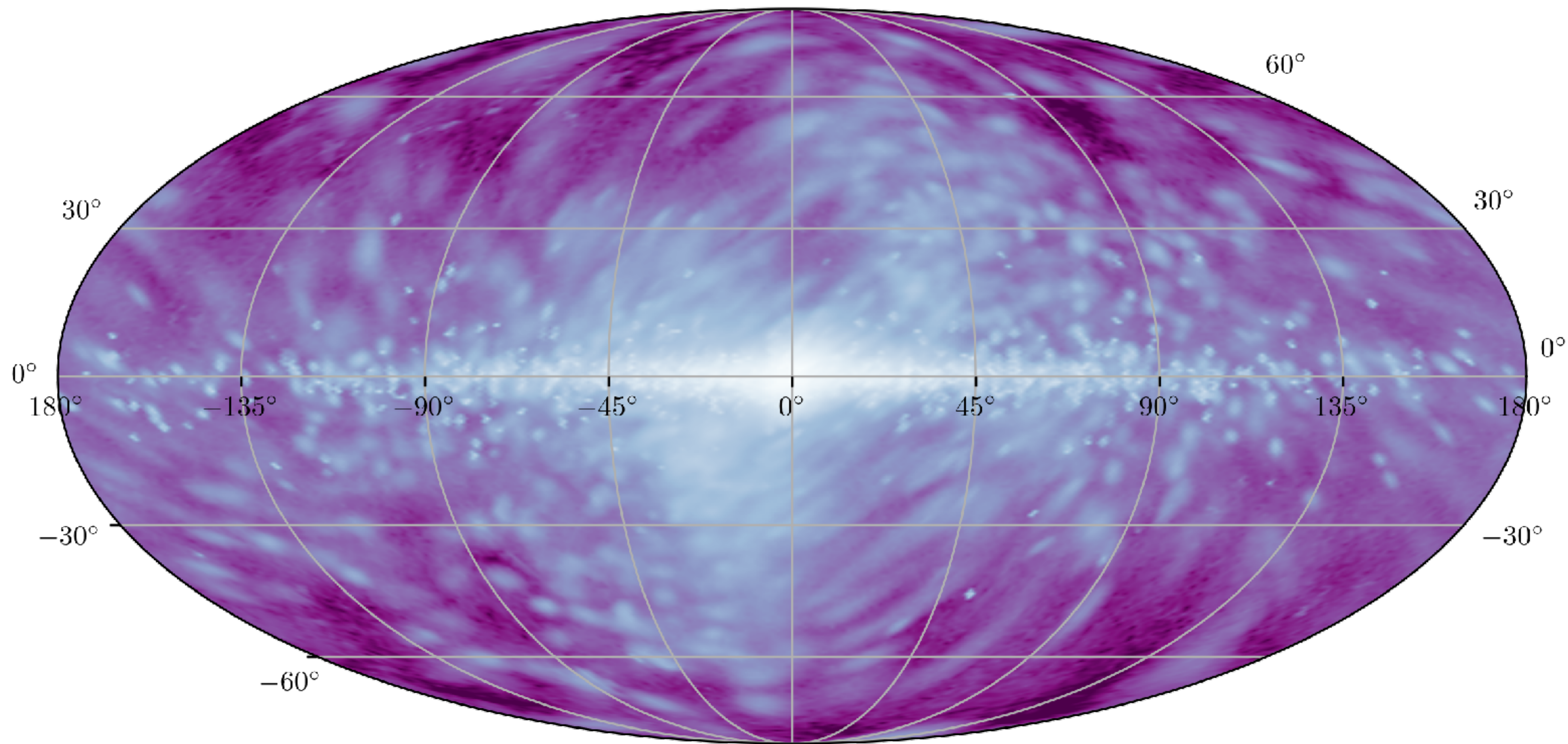


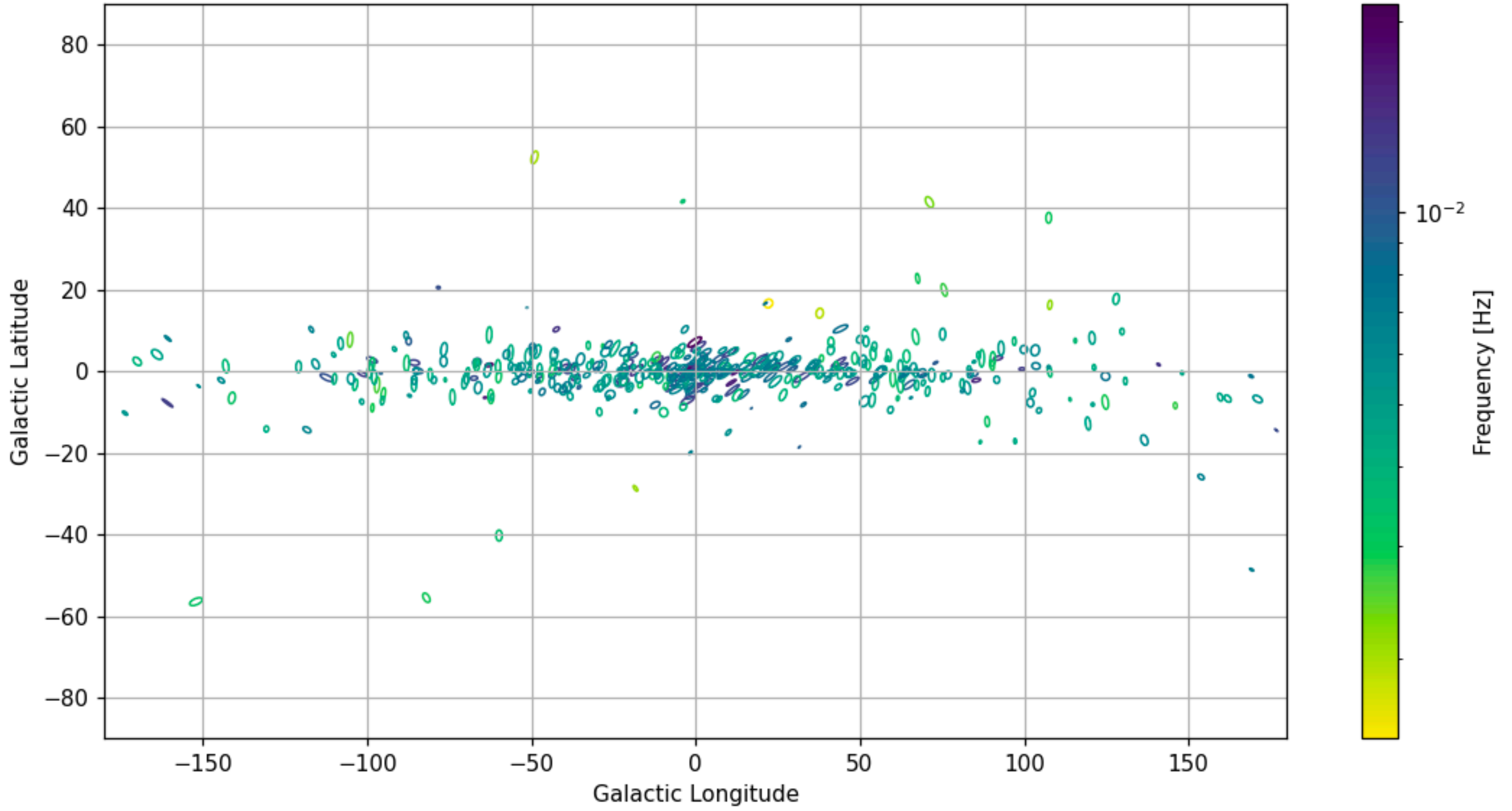


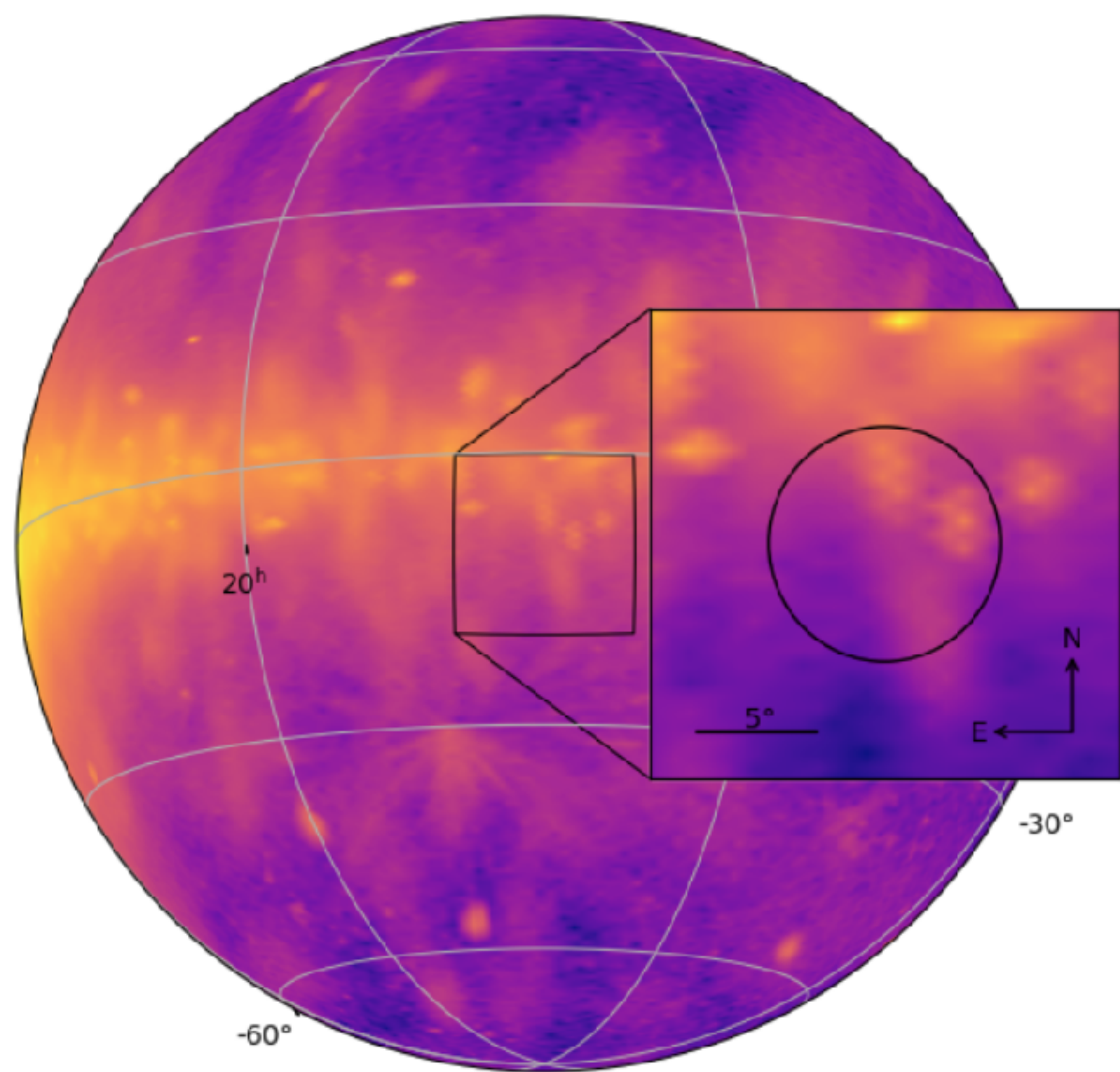






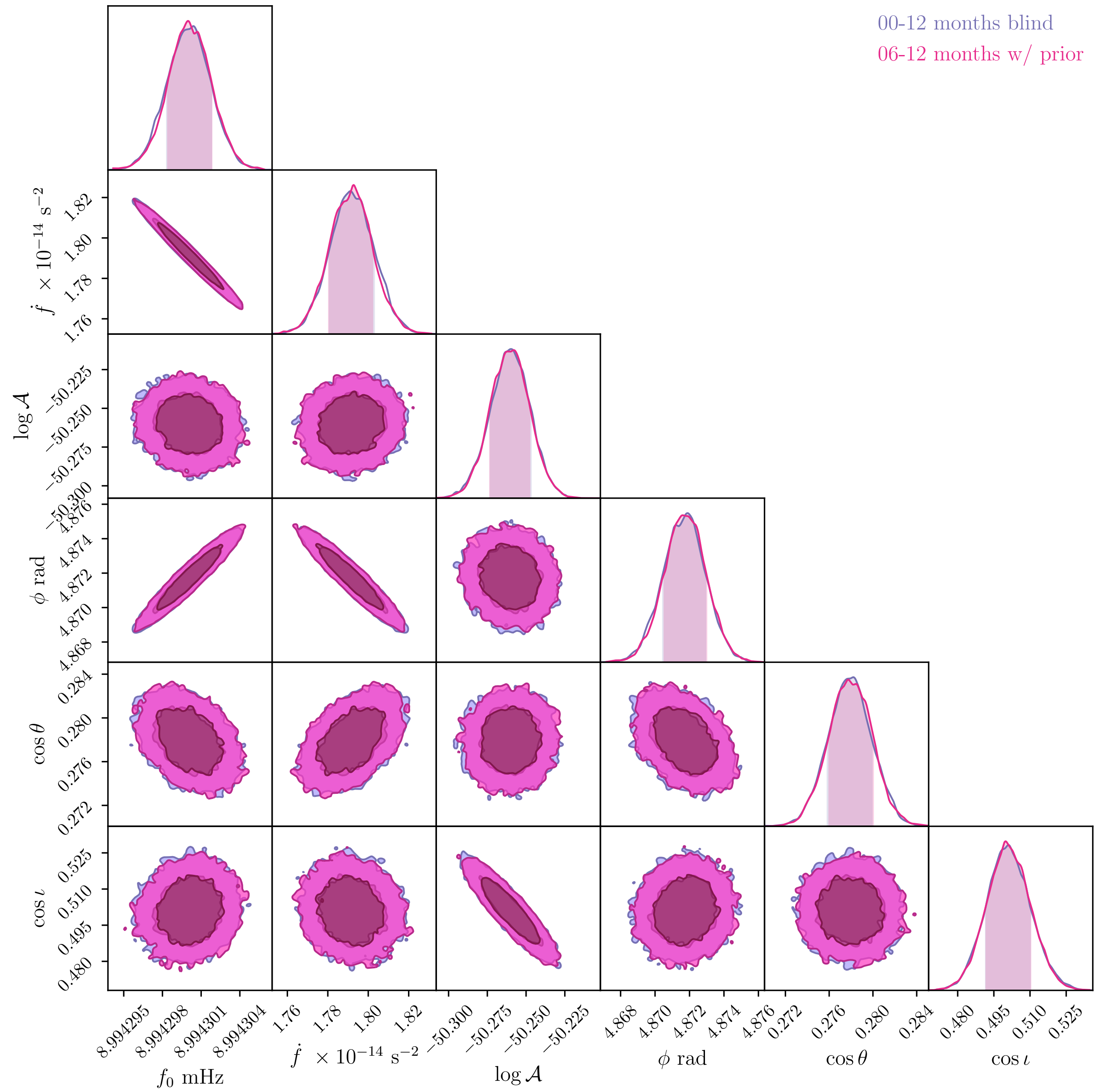


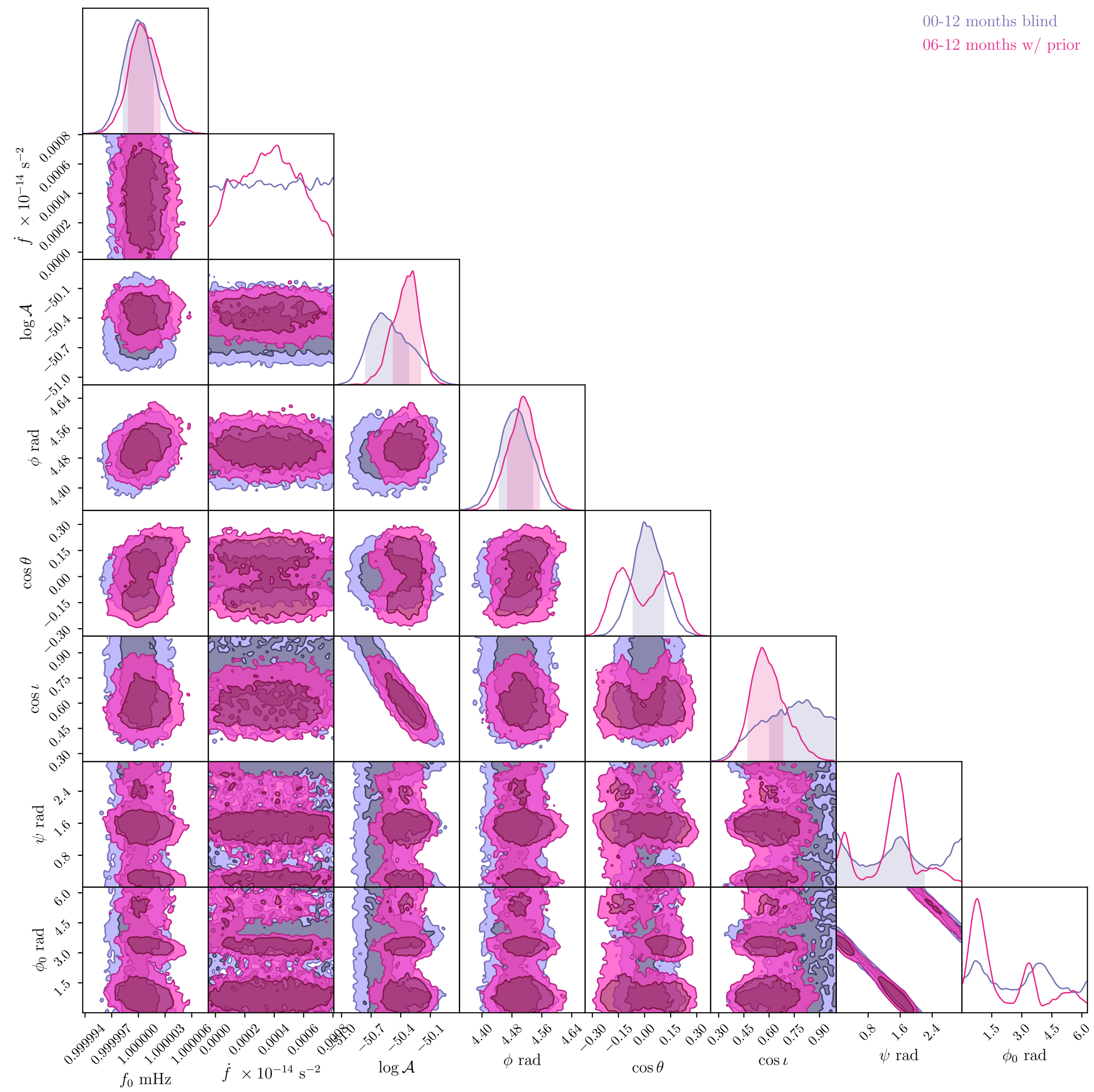


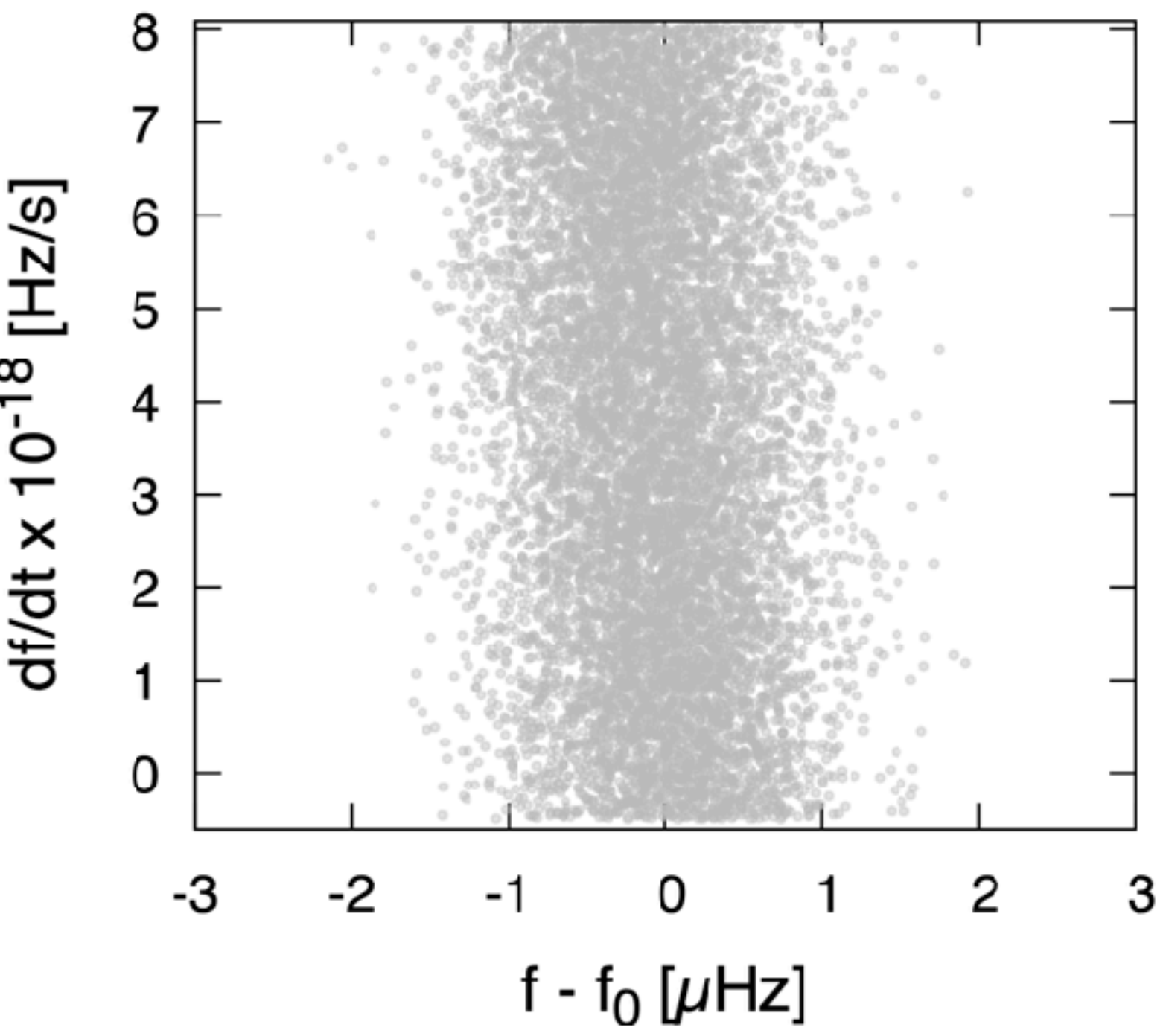


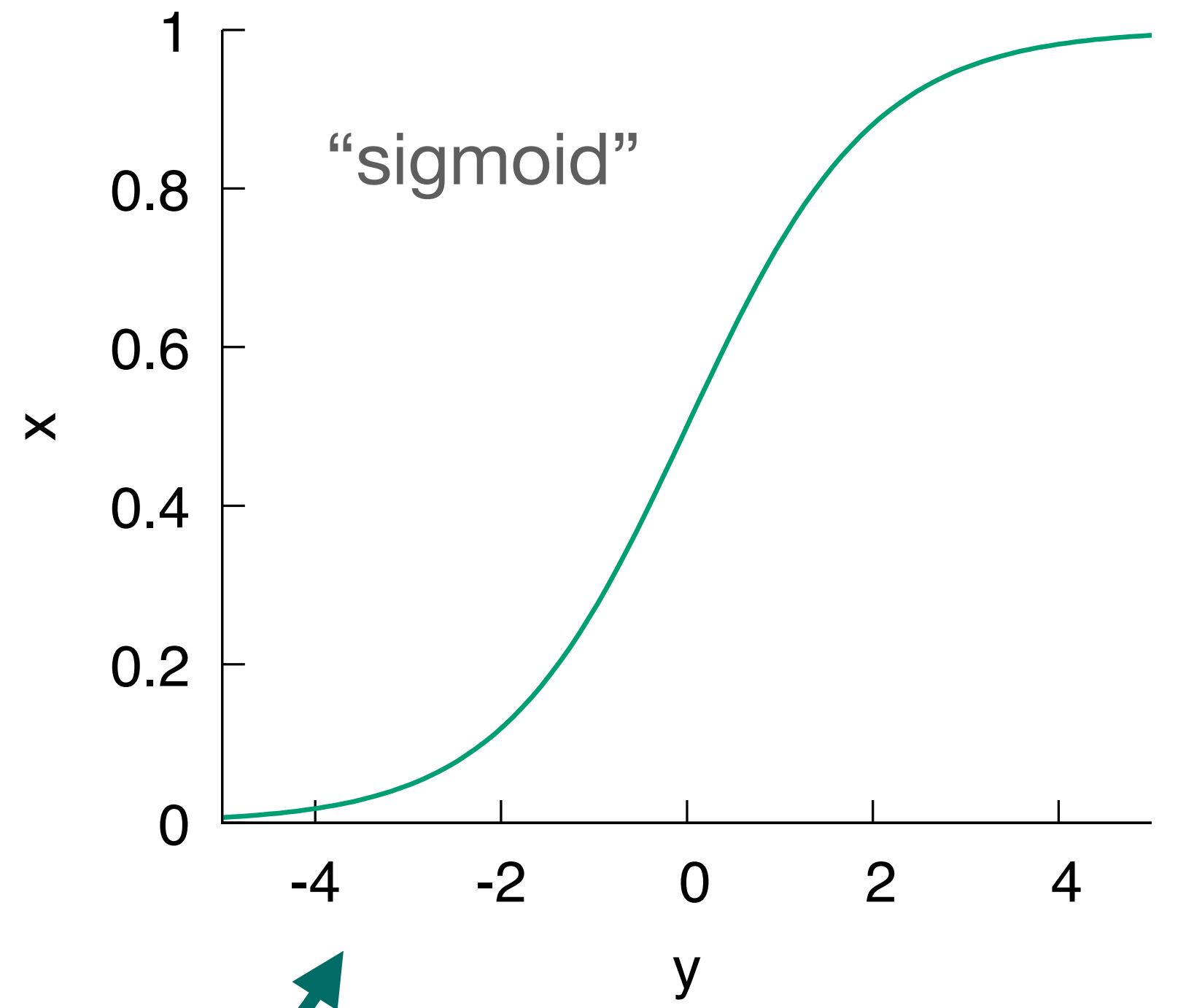
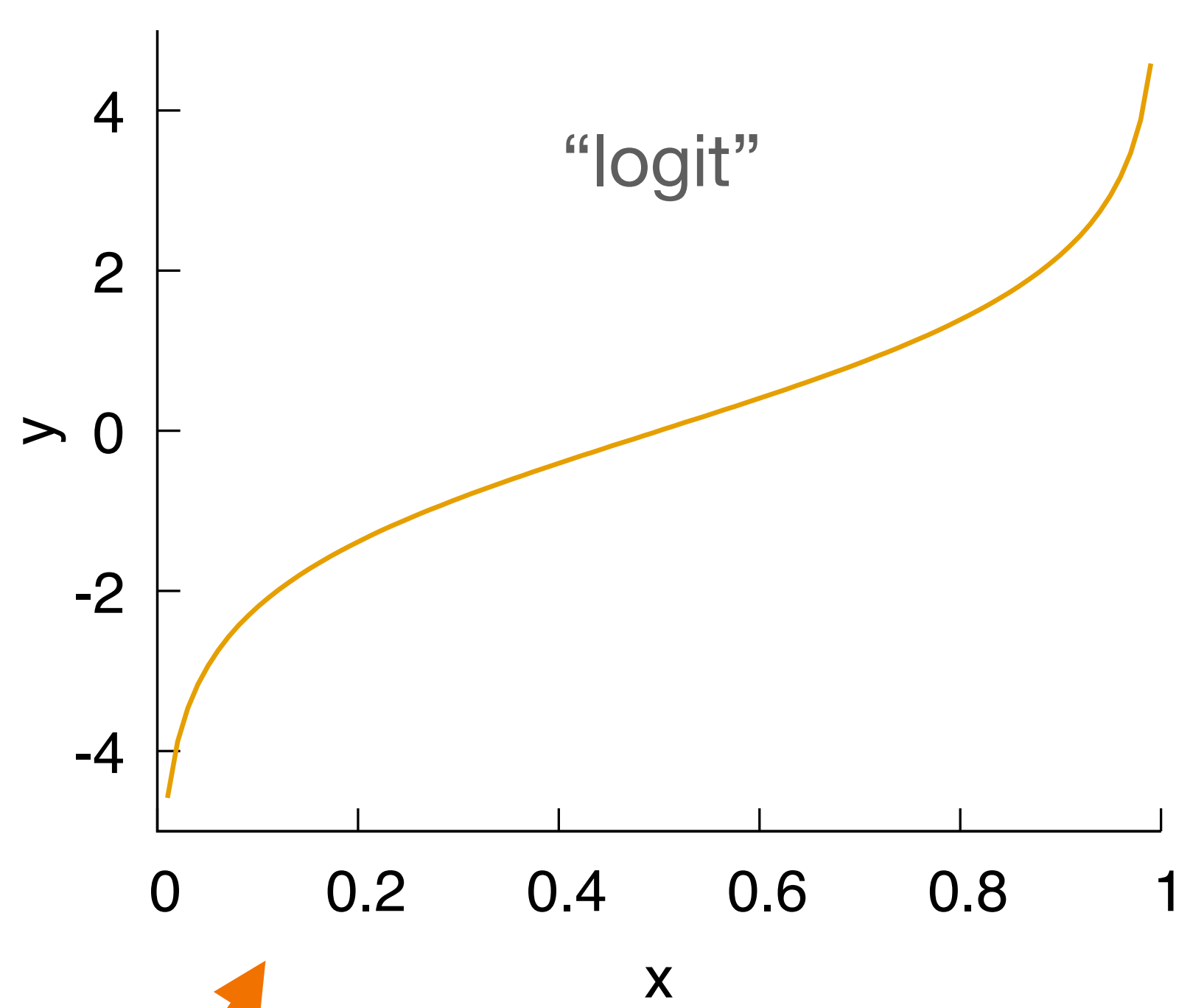
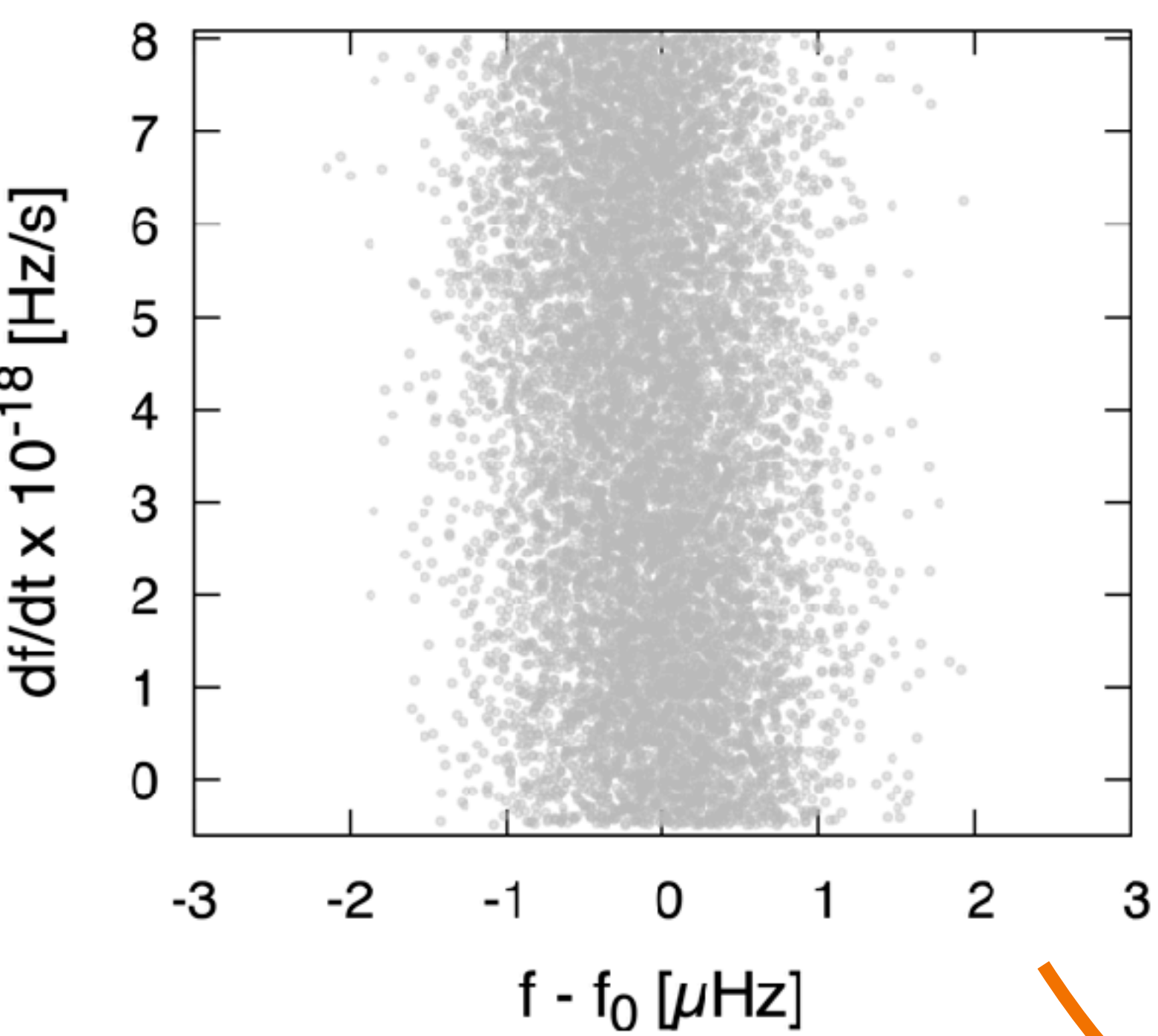
Source	Probability	Galactic Latitude	Galactic Longitude	Amplitude	Frequency	Frequency Derivative
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LDC0042395810	0.967987	-7.249349	-95.299711	1.423602e-22	0.004240	6.250445e-16
LDC0039228714	0.701918	-11.653676	-96.433258	6.932454e-23	0.003923	5.014996e-16
LDC0028970315	0.599408	-6.297551	-95.177226	3.339269e-22	0.002897	1.724442e-16
LDC0021593164	0.473962	-8.387695	-94.312247	1.850941e-22	0.002159	6.182697e-17
LDC0059014146	0.264136	-11.098628	-96.475338	1.282726e-23	0.005901	1.653635e-15
LDC0018214428	0.218968	-9.329163	-95.293400	1.952104e-22	0.001821	3.414391e-17
LDC0029556097	0.214799	-10.490153	-97.391665	7.134227e-23	0.002956	1.745847e-16
LDC0035664890	0.187592	-10.302618	-91.536676	4.444393e-23	0.003566	4.573121e-16
LDC0033519312	0.168649	-6.567912	-92.874819	1.751549e-22	0.003352	3.061037e-16

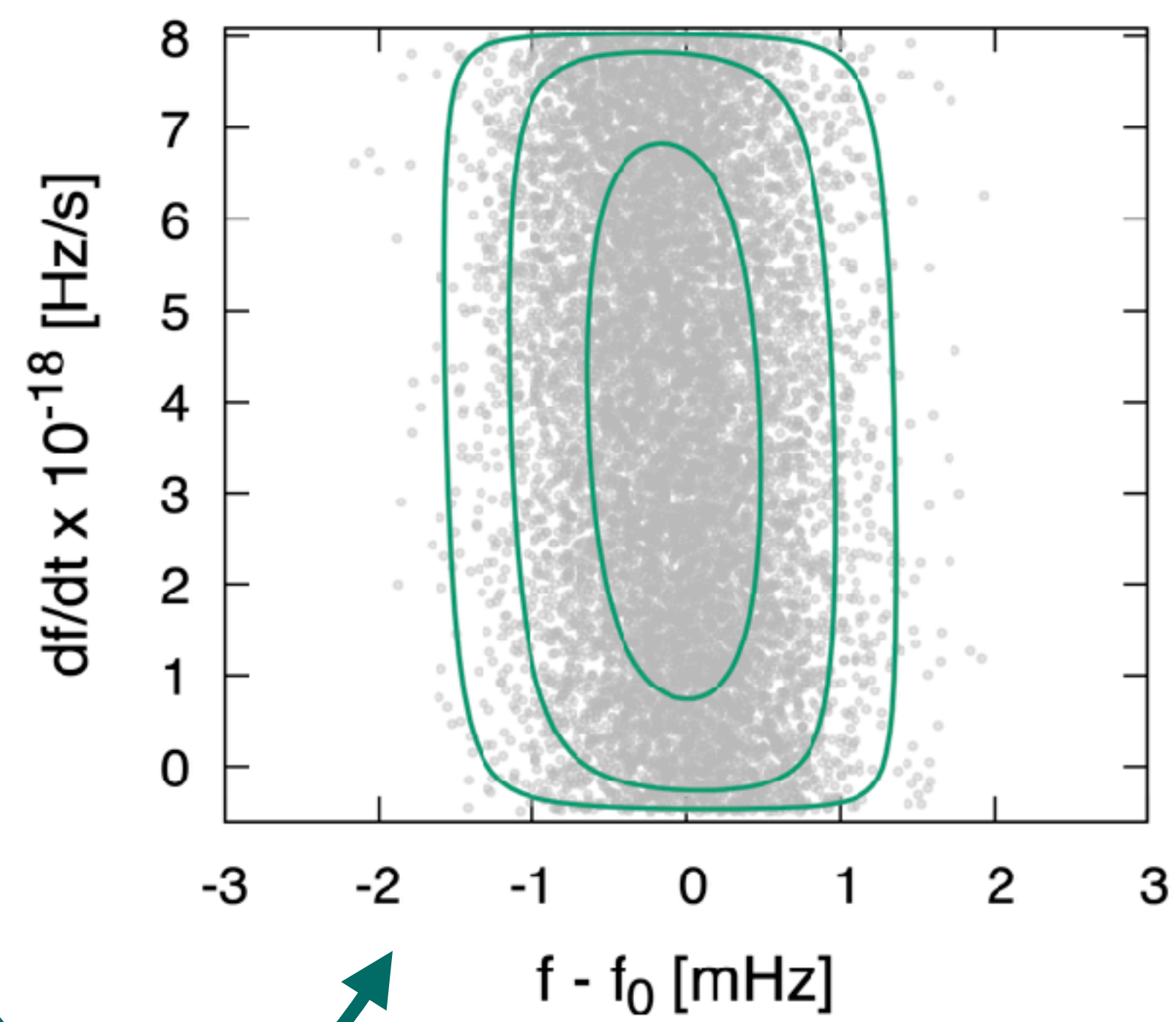
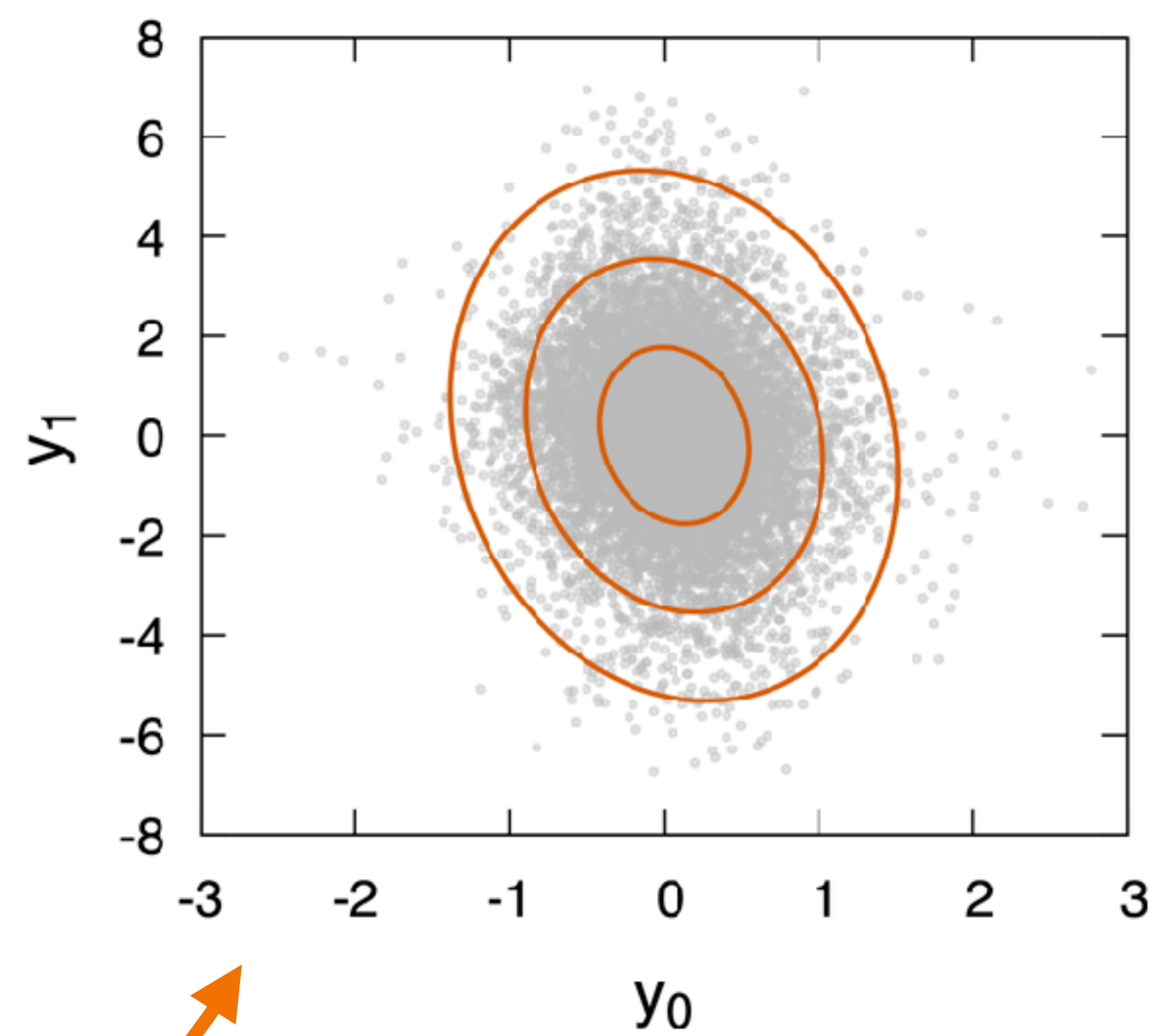
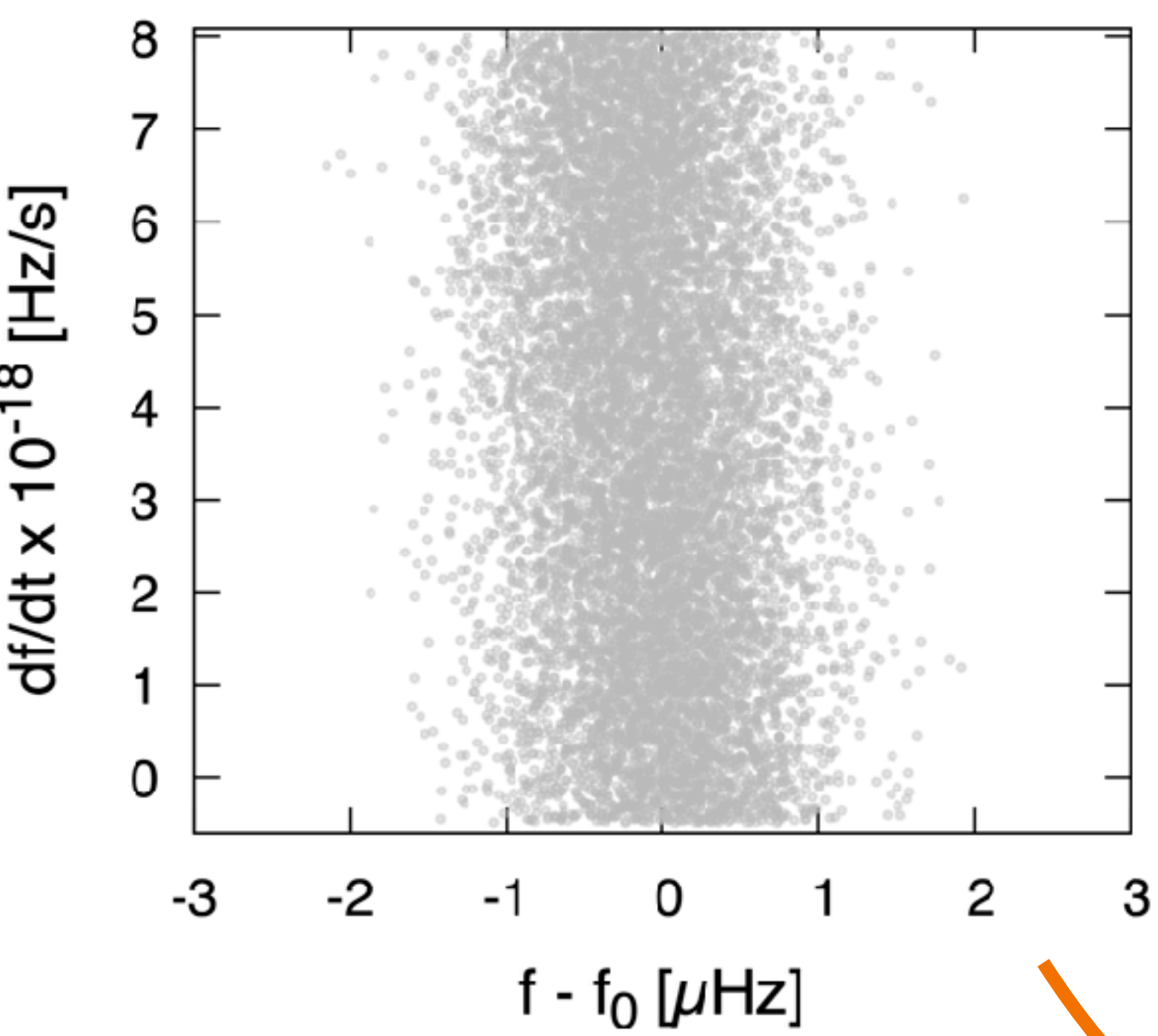
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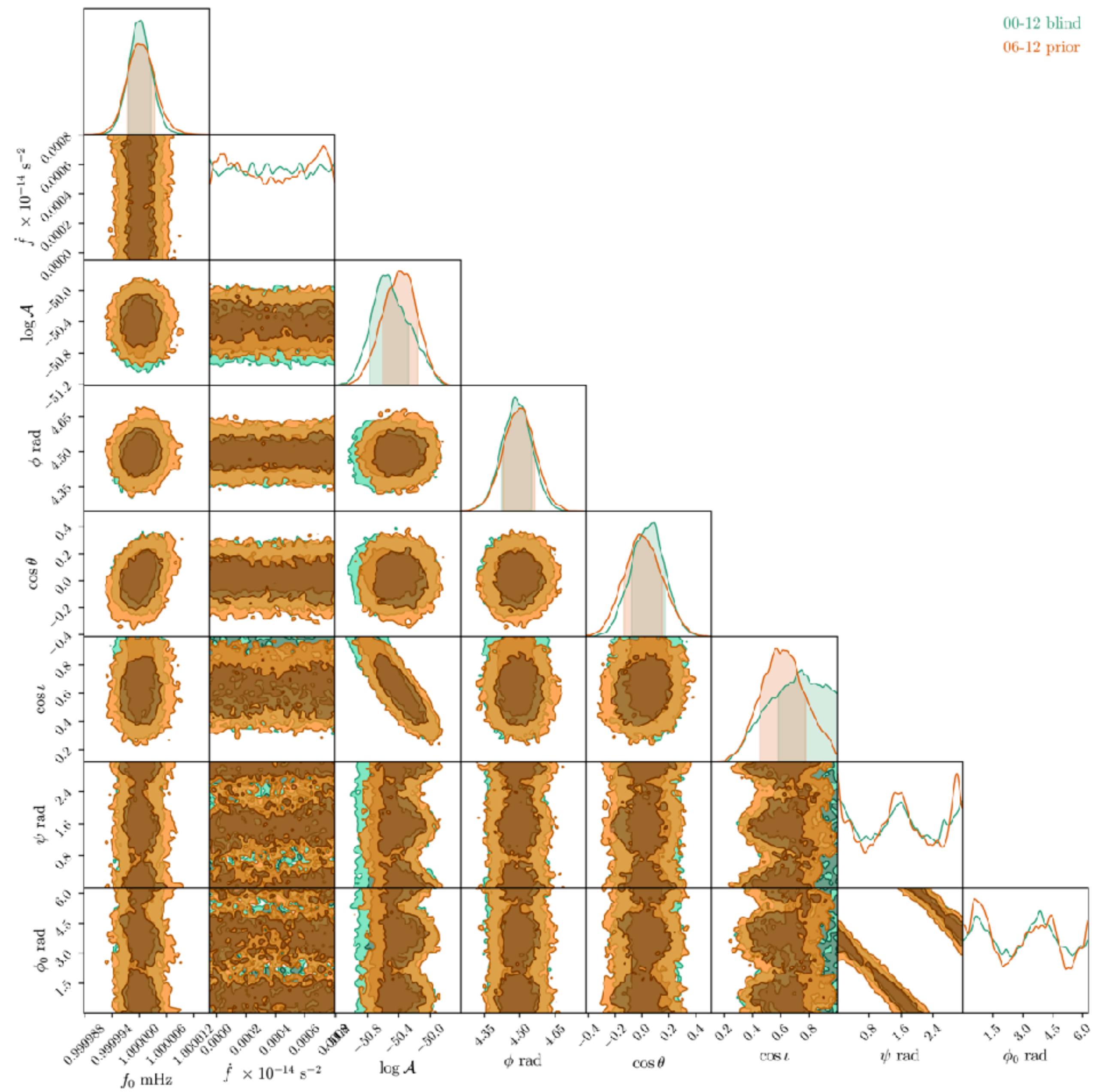












better

We need **MACHINE LEARNING** for
processing & representing high level data