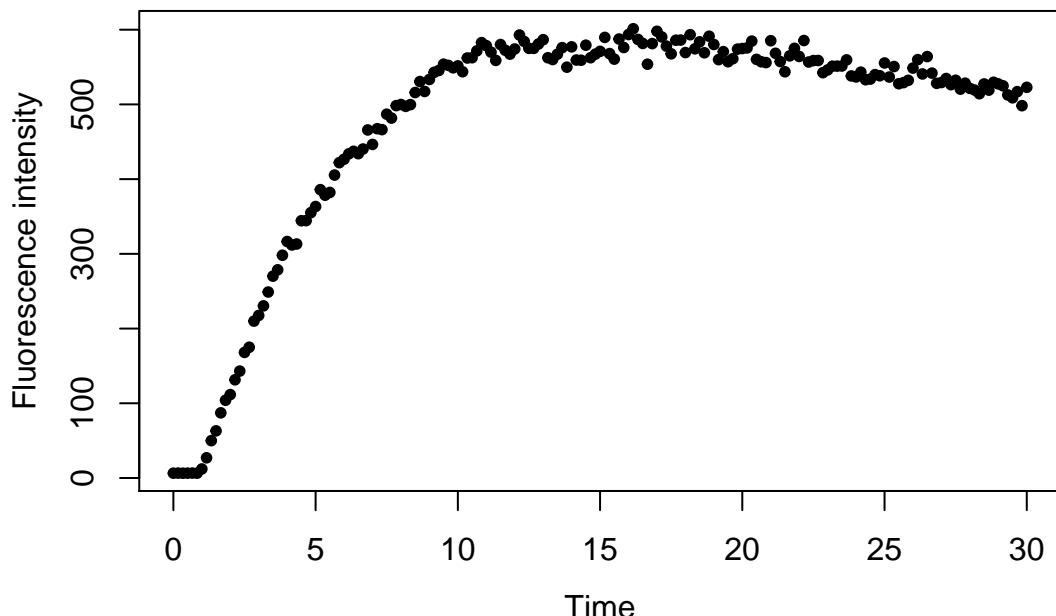


Analysis of individual stanfit objects

November 4, 2020

Dataset: simulated_data_dataset1_with_error, model type: SDE

Trajectory 6



	mean	se_mean	sd	5%	50%	95%	n_eff
theta[1]	0.163	0.002	0.033	0.105	0.167	0.209	304
theta[2]	0.728	0.061	1.055	0.090	0.370	2.816	296
theta[3]	0.019	0.001	0.013	0.011	0.017	0.034	176
m0	274.720	13.603	203.827	37.518	224.456	684.170	225
sigma	0.018	0.000	0.001	0.016	0.018	0.020	2106
scale	1.666	0.035	0.716	0.735	1.543	3.017	415
offset	6.502	0.000	0.048	6.423	6.501	6.582	15599
prod_theta2_m0	89.777	2.274	42.459	39.953	80.762	170.476	349
prod_theta2_scale	0.930	0.068	1.065	0.186	0.557	3.155	247
prod_m0_scale	477.619	30.684	450.688	42.466	338.169	1392.025	216
prod_theta2_m0_scale	124.385	0.251	11.548	106.262	123.925	144.025	2119
x[180,1]	2.878	0.245	3.348	0.130	1.809	9.364	187
x[180,2]	365.913	9.248	171.921	167.665	328.302	687.903	346
	Rhat						
theta[1]	1.026						
theta[2]	1.025						
theta[3]	1.043						
m0	1.044						
sigma	1.004						
scale	1.022						
offset	1.000						
prod_theta2_m0	1.024						

```
prod_theta2_scale    1.032
prod_m0_scale       1.045
prod_theta2_m0_scale 1.006
x[180,1]            1.054
x[180,2]            1.023
```

Divergences:

0 of 20000 iterations ended with a divergence.

Tree depth:

0 of 20000 iterations saturated the maximum tree depth of 15.

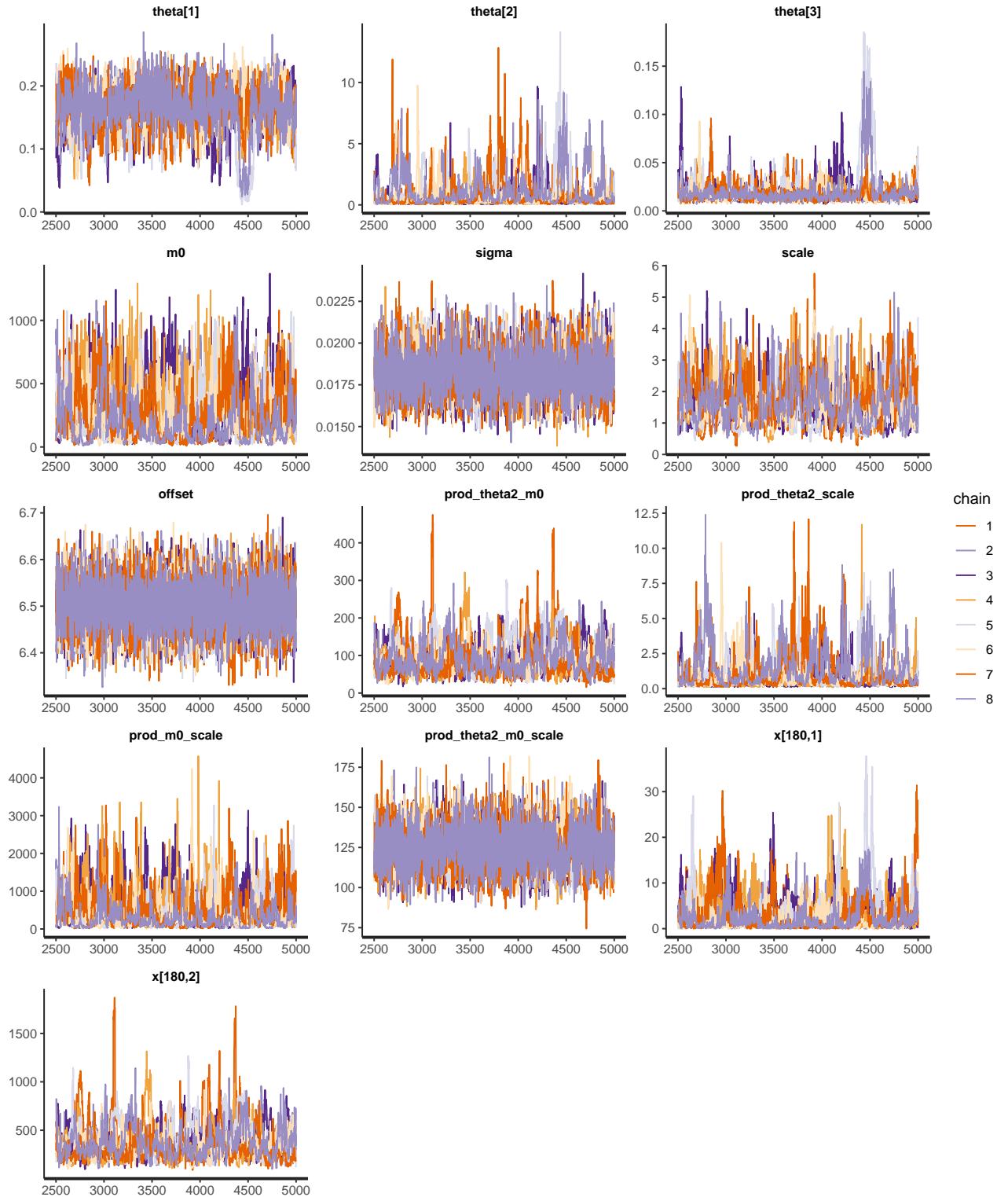
Energy:

E-BFMI indicated possible pathological behavior:

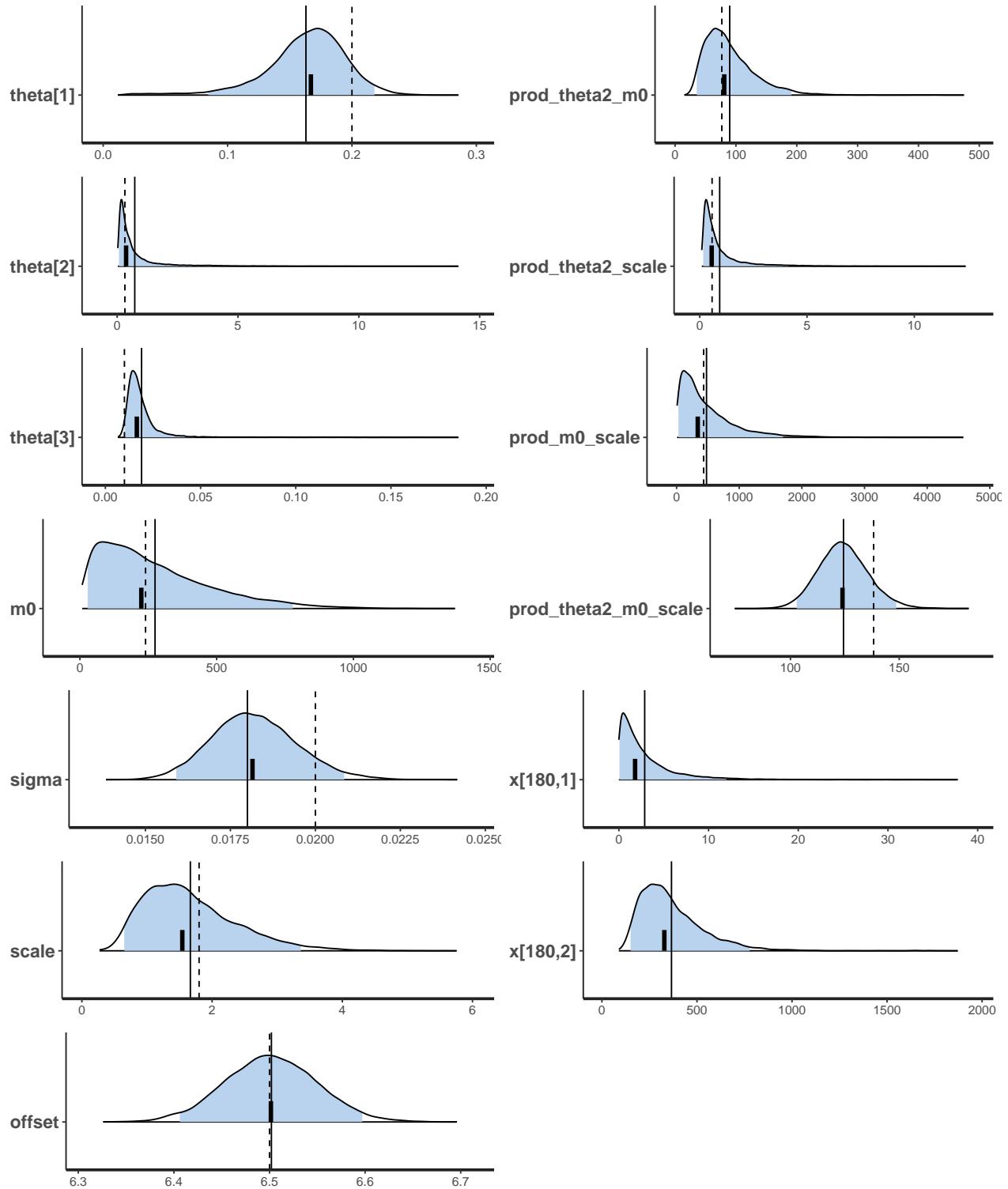
```
Chain 1: E-BFMI = 0.065
Chain 2: E-BFMI = 0.059
Chain 3: E-BFMI = 0.120
Chain 4: E-BFMI = 0.082
Chain 5: E-BFMI = 0.079
Chain 6: E-BFMI = 0.114
Chain 7: E-BFMI = 0.053
Chain 8: E-BFMI = 0.051
```

E-BFMI below 0.2 indicates you may need to reparameterize your model.

Traceplots



Density plots with 95% CI, median (solid line), and if applicable true value (dashed line)



Pair plots

