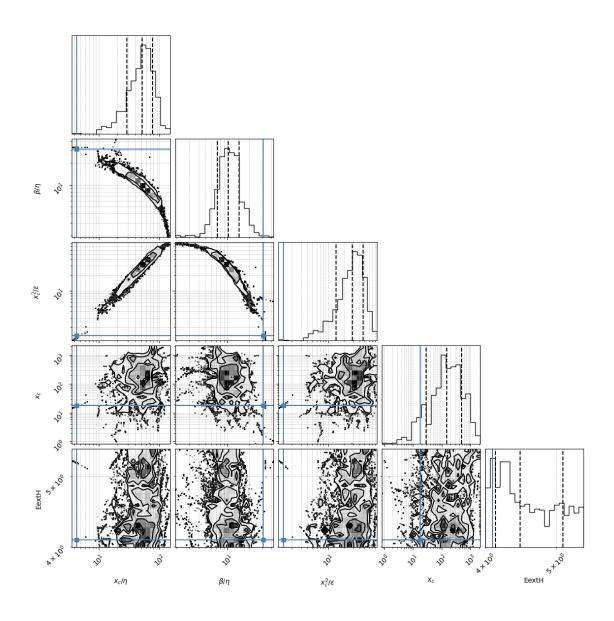
cats_BPH_post.csv_run_6_20250529_141647

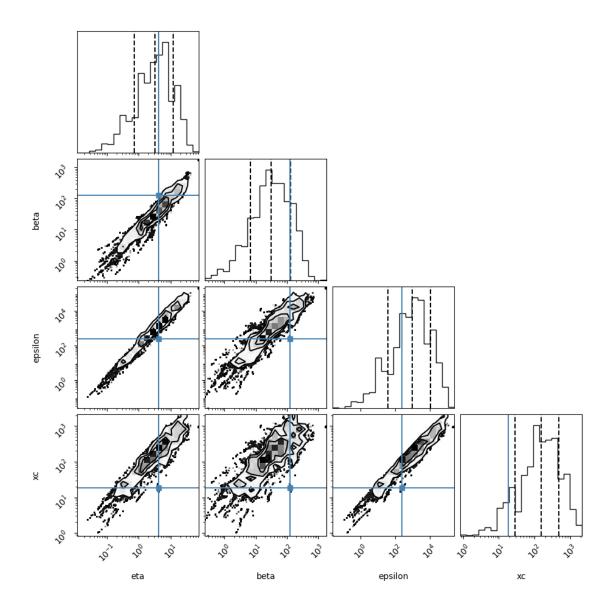
May 29, 2025

/Users/navehr/Dropbox/naveh/weizmann/uri alon/aging/code_3
Loading file from: /Users/navehr/Dropbox/naveh/weizmann/uri
alon/aging/code_3/baysian02/posterior_csvs_baysian01/cats_BPH_post.csv
Reading Cats

1 # 1. Density coner plot

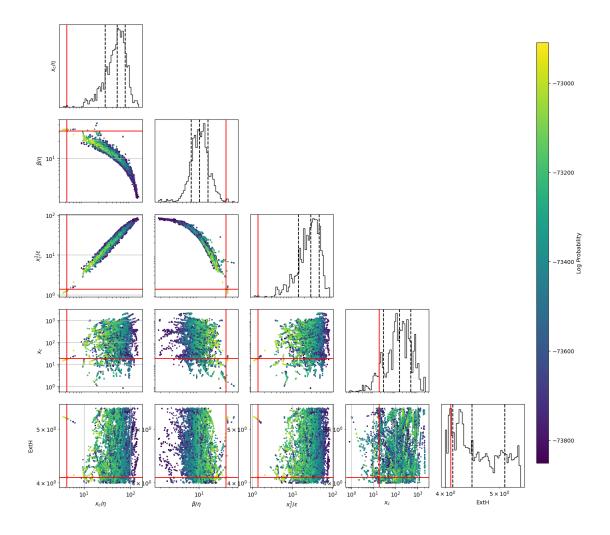
A sample is 1 parameter set scanned. For the corner plot below, the quantiles (represented by the solid lines) are 0.16,0.5,0.84 of the samples. Dots represent individual samples (outside the line surrounding 0.84 of the samples) The parameter search is performed in the transformed space of x_c/η , β/η , x_c^2/ϵ , x_c but we also show the regular parameters (25,)





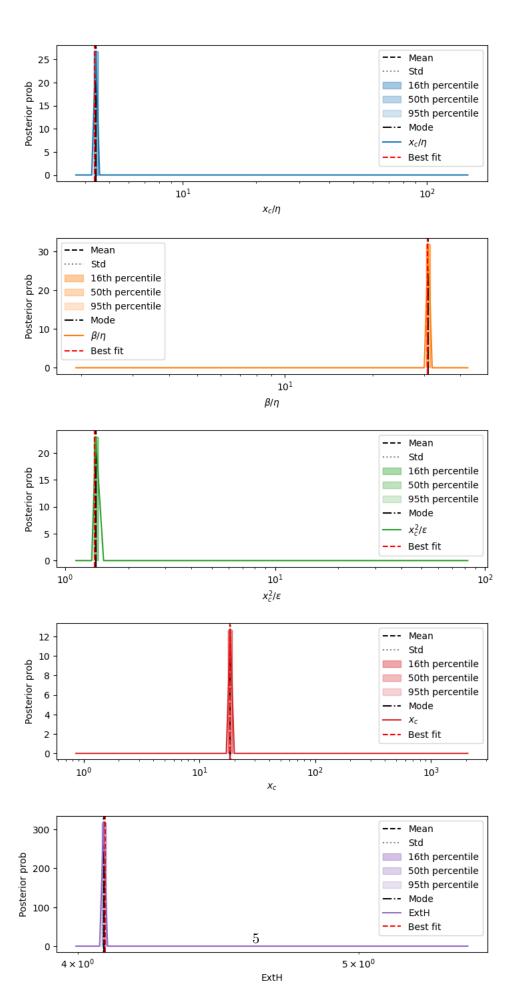
2 2. Heat map corner plot of raw samples

This plot shows all the raw sample points and their lnprobability



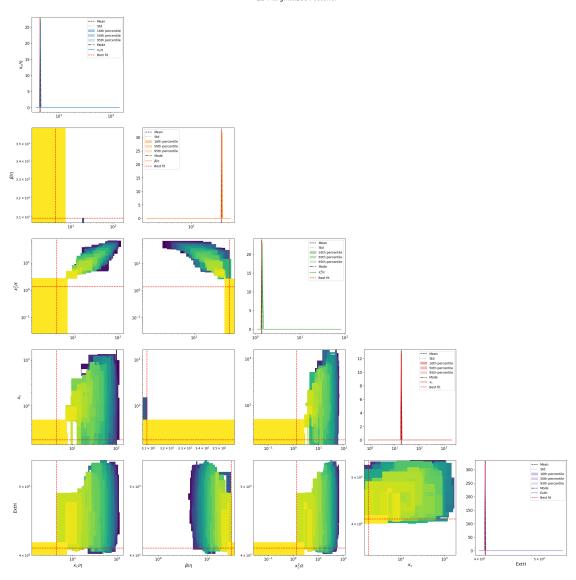
3 3. Posterior distributions of parameters

1d marginalizations of posterior distributions. we use a grid of size nbins=100-150



2D marginalizations of posterior distributions

2D Marginalized Posterior



Rescaling the samples TIME by 365

4 4. Table of results

mode is the marginalized mode, max_likwlihood is the sample with highest likelihood mode_overall is the 4D posterior mode

xc/eta		moon	std	mode	\
beta/eta	vc/eta	mean 4 402			`
xc^2/epsilon	·		- · · · · · · · · · · · · · · · · · · ·		
xc					
ExtH eta 4.083 [0.000621, 0.000621] 4.083 eta 4.35 [1.24e-06, 1.24e-06] 7.353 beta epsilon sqrt(xc/eta) 230.498 [0.000163, 0.000163] 1902.04 sqrt(xc/eta) 22.082 [3.34e-05, 3.34e-05] 1.911 s=eta^0.5*xc^1.5/epsilon beta*xc/epsilon eta*xc/epsilon eta*xc/epsilon 0.668 [1.46e-05, 1.46e-05] 1.262 beta*xc/epsilon eta*xc/epsilon 0.386 [0.00392, 0.00388] 0.391 Fx=beta^2/eta*xc 44.328 [3.698, 3.413] 40.212 Dx =beta*epsilon/eta*xc^2 5.153 [0.394, 0.366] 5.137 Pk=beta*z/epsilon 0.278 [0.00202, 0.002] 0.0452 Pk=beta*Z/eta*k 8311.65 [3.884, 3.882] 7436.201 Dk =beta*epsilon/eta*xc^2 1313.448 [91.687, 91.426] 139192.022 Fk^2Dk=beta^3/eta*epsilon epsilon/beta^2 0.044.746 [6.936, 6.912] 283.861 epsilon/beta^2 0.00108 [1.28e-08, 1.28e-08] 0.0716 k/beta 0.00108 [1.28e-08, 1.28e-08] 0.0716 k/beta fit_MedianLifetime 12.96 0.051 12.96 best fit_MaxLifetime 12.96 0.051 12.96 best fit_MaxLifetime 14.0 0.48 14.0 data_MaxLifetime 16.0 0.48 14.0 data_MaxLifetime 16.0 0.48 14.0 eta*xc/epsilon eta*xc/epsilon [1.5.154, 16.395] ExtH [1.9.719, 20.346] xc 2-(eta) = [1.9.31, 7.682] beta = [1.9.31, 7.682] beta = [1.9.31, 7.929] st eta*xc/epsilon eta*			·		
eta 4.35 [1.24e-06, 1.24e-06] 7.353 beta 133,943 [3.14e-06, 3.14e-06] 133.943 epsilon 230.498 [0.000163, 0.000163] 1902.04 sqrt(xc/eta) 2.098 [3.34e-05, 3.34e-05] 1.911 s= eta^0.5*xc^1.5/epsilon 0.688 [1.46e-05, 1.46e-05] 1.262 beta*xc/epsilon 9.913 [2.35e-05, 2.35e-05] 8.04 eta*xc/epsilon 0.386 [0.00392, 0.00388] 0.391 Fx=beta^2/eta*xc 44.328 [3.698, 3.413] 40.212 Dx =beta*epsilon/eta*xc^2 5.153 [0.0302, 0.002] 0.0452 Fk=beta*2/eta*k 8311.65 [3.884, 3.882] 7436.201 Dk =beta*epsilon/eta*k^2 8311.48 [91.687, 91.426] 139192.022 Fk^2/Dk=beta^3/eta*epsilon 0.0146 [1.28e-08, 1.28e-08] 0.0716 k/beta 0.00373 [8.74e-11, 8.74e-11] 0.00373 k^2/epsilon 0.0146 [1.28e-08, 1.28e-08] 0.0716 kbsta*[ti_MaxLifetime 12.96 0.51 12.96					
beta epsilon					
epsilon 230.498 [0.000163, 0.000163] 1902.04 sqrt(xc/eta) 2.098 [3.34e-05, 3.34e-05] 1.911 s= eta^0.5*xc^1.5/epsilon 0.668 [1.46e-05, 1.46e-05] 1.262 beta*xc/epsilon 9.913 [2.35e-05, 2.35e-05] 8.04 eta*xc/epsilon 0.386 [0.00392, 0.00388] 0.391 Fx=beta*2/eta*xc 44.328 [3.698, 3.413] 40.212 Dx =beta*epsilon/eta*xc^2 5.153 [0.394, 0.366] 5.137 Pk=beta*2/eta*k 8311.65 [3.884, 3.882] 7436.201 Dk =beta*epsilon/eta*x^2 32131.448 [91.687, 91.426] 139192.022 Fk*2/bk=beta^3/eta*epsilon 2044.746 [6.936, 6.912] 283.861 epsilon/beta^2 0.0146 [1.28e-08, 1.28e-08] 0.0716 k/beta 0.000373 [8.74e-11, 8.74e-11] 0.00373 k^2/epsilon 0.00108 [7.64e-10, 7.64e-10] 0.000131 best fit_MaxLifetime 14.0 0.48 14.0 data_MaxLifetime 16.0 0.48 14.0					
sqrt(xc/eta) 2.098 [3.34e-05, 3.34e-05] 1.911 s= eta^0.5*xc^1.5/epsilon 0.668 [1.46e-05, 1.46e-05] 1.262 beta*xc/epsilon 9.913 [2.35e-05, 2.35e-05] 8.04 eta*xc/epsilon 0.366 [0.00392, 0.00388] 0.391 Fx=beta^2/eta*xc 44.328 [3.698, 3.413] 40.212 Dx =beta*epsilon/eta*xc^2 5.153 [0.0394, 0.366] 5.137 Pk=beta*/epsilon 0.278 [0.00202, 0.002] 0.0452 Fk=beta*/epsilon/eta*k 8311.65 [3.884, 3.882] 7436.201 Dk =beta*epsilon/eta*k^2 32131.448 [91.687, 91.426] 139192.022 Fk^2pta7/Dk=beta^3/eta*epsilon 2044.746 [6.936, 6.912] 283.861 epsilon/beta^2 0.00146 [1.28e-08, 1.28e-08] 0.0716 k/beta k/beta 0.00373 [8.74e-11, 8.74e-11] 0.00373 k^2/epsilon 0.00108 [7.64e-10, 7.64e-10] 0.000131 best fit_MedianLifetime 12.96 0.51 12.96 best fit_MedianLifetime 14.0 0.48<					
s= eta^0.5*xc^1.5/epsilon 0.668 [1.46e-05, 1.46e-05] 1.262 beta*xc/epsilon 9.913 [2.35e-05, 2.35e-05] 8.04 eta*xc/epsilon 9.913 [0.00392, 0.00388] 0.391 Fx=beta*2/eta*xc 44.328 [3.698, 3.413] 40.212 Dx =beta*epsilon/eta*xc^2 5.153 [0.0392, 0.002] 0.0452 Fk=beta^2/eta*k 8311.65 [3.884, 3.882] 7436.201 Dk =beta*epsilon/eta*k^2 32131.448 [91.687, 91.426] 139192.022 Fk^2/Dk=beta^3/eta*epsilon 2044.746 [6.936, 6.912] 283.861 epsilon/beta^2 0.0146 [1.2e0-08, 1.28e-08] 0.0716 k/beta 0.00373 [8.74e-11, 8.74e-11] 0.00373 k^2/epsilon 0.00108 [7.64e-10, 7.64e-10] 0.000131 best fit_MaxLifetime 12.96 0.51 12.96 best fit_MaxLifetime 14.0 0.48 14.0 data_MaxLifetime 16.0 0.48 14.0 data_bax_ifetime 16.0 0.61 16.0 xc/eta	-		•		
beta*xc/epsilon 9.913 [2.35e-05, 2.35e-05] 8.04 eta*xc/epsilon 0.386 [0.00392, 0.00388] 0.391 Fx=beta^2/eta*xc 44.328 [3.698, 3.413] 40.212 Dx =beta*epsilon/eta*xc^2 5.153 [0.394, 0.366] 5.137 Pk=beta*2/eta*k 8311.65 [3.884, 3.882] 7436.201 Dk =beta*epsilon/eta*k^2 32131.448 [91.687, 91.426] 139192.022 Fk*2/Dk=beta^3/eta*epsilon 2044.746 [6.936, 6.912] 283.861 epsilon/beta^2 0.0146 [1.28e-08, 1.28e-08] 0.0716 k/beta 0.00373 [8.74e-11, 8.74e-11] 0.00373 k^2/epsilon 0.00108 [7.64e-10, 7.64e-10] 0.00013 best fit_MaxLifetime 12.96 0.51 12.96 best fit_MaxLifetime 25.0 0 0 25.0 data_MedianLifetime 14.0 0.48 14.0 data_MaxLifetime 16.0 0 16.0 xc^2/epsilon [1.3,1149] [1.246, 1.399 1.246 exth	-		•		
eta*xc/epsilon 0.386 [0.00392, 0.00388] 0.391 Fx=beta*2/eta*xc 44.328 [3.698, 3.413] 40.212 Dx =beta*epsilon/eta*xc^2 5.153 [0.394, 0.366] 5.137 Pk=beta*/epsilon 0.278 [0.00202, 0.002] 0.0452 Fk=beta*2/eta*k 8311.65 [3.884, 3.882] 7436.201 Dk =beta*epsilon/eta*k^2 32131.448 [91.687, 91.426] 139192.022 Fk*2/Dk=beta*3/eta*epsilon 2044.746 [6.936, 6.912] 283.861 epsilon/beta*2 0.0146 [1.28e-08, 1.28e-08] 0.0716 k/beta 0.00373 [8.74e-11, 8.74e-11] 0.00373 k*2/epsilon 0.00108 [7.64e-10, 7.64e-10] 0.000131 best fit_MaxLifetime 12.96 0.51 12.96 best fit_MaxLifetime 14.0 0.48 14.0 data_MaxLifetime 16.0 0.48 14.0 data_MaxLifetime [19.719, 20.346] 1.296 beta/epsilon [1.1, 1.149] 1.149 1.149 xc [1.5154, 16.395]			•		
Fx=beta^2/eta*xc	-				
Dx =beta*epsilon/eta*xc^2	-				
Pk=beta*k/epsilon 0.278 [0.00202, 0.002] 0.0452 Fk=beta^2/eta*k 8311.65 [3.884, 3.882] 7436.201 Dk =beta*epsilon/eta*k^2 32131.448 [91.687, 91.426] 139192.022 Fk^2/Dk=beta^3/eta*epsilon 2044.746 [6.936, 6.912] 283.861 epsilon/beta^2 0.0146 [1.28e-08, 1.28e-08] 0.0716 k/beta 0.00373 [8.74e-11, 8.74e-11] 0.00373 k^2/epsilon 0.00108 [7.64e-10, 7.64e-10] 0.00131 best fit_MaxLifetime 12.96 0.51 12.96 best fit_MaxLifetime 14.0 0.48 14.0 data_MedianLifetime 14.0 0.48 14.0 data_MaxLifetime 16.0 0 16.0 **C/eta* Sabsta					
Fk=beta^2/eta*k 8311.65 [3.884, 3.882] 7436.201 Dk =beta*epsilon/eta*k^2 32131.448 [91.687, 91.426] 139192.022 Fk^2/Dk=beta^3/eta*epsilon	-				
Dk =beta*epsilon/eta*k^2 32131.448	<u>-</u>				
Fk^2/Dk=beta^3/eta*epsilon	•				
epsilon/beta^2	-		·		
k/beta	-				
k^2/epsilon	_				
best fit_MedianLifetime			- · · · · · · · · · · · · · · · · · · ·		
best fit_MaxLifetime	_				
data_MedianLifetime 14.0 0.48 14.0 data_MaxLifetime 16.0 0 16.0 percentile_16 \ xc/eta					
Deta	_		-		
percentile_16 \ xc/eta	_		*		
xc/eta [3.585, 3.721] beta/eta [19.719, 20.346] xc^2/epsilon [1.1, 1.149] xc [15.154, 16.395] ExtH [4.077, 4.09] eta [7.038, 7.682] beta [128.032, 140.127] epsilon [1753.75, 2062.869] sqrt(xc/eta) [1.893, 1.929] s= eta^0.5*xc^1.5/epsilon [1.246, 1.279] beta*xc/epsilon [7.936, 8.146] eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	- · · · · · -				
beta/eta [19.719, 20.346] xc^2/epsilon [1.1, 1.149] xc [15.154, 16.395] ExtH [4.077, 4.09] eta [7.038, 7.682] beta [128.032, 140.127] epsilon [1753.75, 2062.869] sqrt(xc/eta) [1.893, 1.929] s= eta^0.5*xc^1.5/epsilon [1.246, 1.279] beta*xc/epsilon [7.936, 8.146] eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]			percentile_16 \		
xc^2/epsilon	xc/eta		[3.585, 3.721]		
ExtH [4.077, 4.09] eta [7.038, 7.682] beta [128.032, 140.127] epsilon [1753.75, 2062.869] sqrt(xc/eta) [1.893, 1.929] s= eta^0.5*xc^1.5/epsilon [1.246, 1.279] beta*xc/epsilon [7.936, 8.146] eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	beta/eta	[19.719, 20.346]			
ExtH [4.077, 4.09] eta [7.038, 7.682] beta [128.032, 140.127] epsilon [1753.75, 2062.869] sqrt(xc/eta) [1.893, 1.929] s= eta^0.5*xc^1.5/epsilon [1.246, 1.279] beta*xc/epsilon [7.936, 8.146] eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	xc^2/epsilon	[1.1, 1.149]			
beta [7.038, 7.682] beta [128.032, 140.127] epsilon [1753.75, 2062.869] sqrt(xc/eta) [1.893, 1.929] s= eta^0.5*xc^1.5/epsilon [1.246, 1.279] beta*xc/epsilon [7.936, 8.146] eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	xc	[15.154, 16.395]			
beta [128.032, 140.127] epsilon [1753.75, 2062.869] sqrt(xc/eta) [1.893, 1.929] s= eta^0.5*xc^1.5/epsilon [1.246, 1.279] beta*xc/epsilon [7.936, 8.146] eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	ExtH	[4.077, 4.09]			
epsilon [1753.75, 2062.869] sqrt(xc/eta) [1.893, 1.929] s= eta^0.5*xc^1.5/epsilon [1.246, 1.279] beta*xc/epsilon [7.936, 8.146] eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	eta				
sqrt(xc/eta) [1.893, 1.929] s= eta^0.5*xc^1.5/epsilon [1.246, 1.279] beta*xc/epsilon [7.936, 8.146] eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	beta				
<pre>s= eta^0.5*xc^1.5/epsilon</pre>	epsilon	[1753.75, 2062.869]			
beta*xc/epsilon [7.936, 8.146] eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	sqrt(xc/eta)	[1.893, 1.929]			
eta*xc/epsilon [0.388, 0.393] Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	s= eta^0.5*xc^1.5/epsilon	[1.246, 1.279]			
Fx=beta^2/eta*xc [38.365, 42.148] Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	beta*xc/epsilon	[7.936, 8.146]			
Dx =beta*epsilon/eta*xc^2 [4.955, 5.325] Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	_	[0.388, 0.393]			
Pk=beta*k/epsilon [0.043, 0.0474] Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]					
Fk=beta^2/eta*k [7033.681, 7861.757] Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	-				
Dk =beta*epsilon/eta*k^2 [128304.791, 151003.083] Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]	-				
Fk^2/Dk=beta^3/eta*epsilon [267.845, 300.834]					
-	-				
epsilon/beta^2 [0.0685, 0.0748]	-				
	epsilon/beta^2	[0	.0685, 0.0748]		

```
k/beta
                                     [0.00357, 0.0039]
                                  [0.000121, 0.000142]
k^2/epsilon
best fit_MedianLifetime
                                        [12.47, 13.47]
                                          [25.0, 25.0]
best fit_MaxLifetime
data_MedianLifetime
                                        [13.53, 14.48]
data_MaxLifetime
                                          [16.0, 16.0]
                                         percentile_50 \
xc/eta
                                        [3.585, 3.721]
beta/eta
                                      [19.719, 20.346]
xc^2/epsilon
                                          [1.1, 1.149]
                                      [15.154, 16.395]
хc
ExtH
                                         [4.077, 4.09]
eta
                                        [7.038, 7.682]
beta
                                    [128.032, 140.127]
                                   [1753.75, 2062.869]
epsilon
sqrt(xc/eta)
                                        [1.893, 1.929]
s= eta^0.5*xc^1.5/epsilon
                                        [1.246, 1.279]
beta*xc/epsilon
                                        [7.936, 8.146]
eta*xc/epsilon
                                        [0.388, 0.393]
Fx=beta^2/eta*xc
                                      [38.365, 42.148]
Dx =beta*epsilon/eta*xc^2
                                        [4.955, 5.325]
Pk=beta*k/epsilon
                                       [0.043, 0.0474]
Fk=beta^2/eta*k
                                  [7033.681, 7861.757]
Dk =beta*epsilon/eta*k^2
                             [128304.791, 151003.083]
Fk^2/Dk=beta^3/eta*epsilon
                                    [267.845, 300.834]
                                      [0.0685, 0.0817]
epsilon/beta^2
k/beta
                                     [0.00357, 0.0039]
k^2/epsilon
                                  [0.000121, 0.000142]
                                        [12.47, 13.47]
best fit_MedianLifetime
best fit_MaxLifetime
                                          [25.0, 25.0]
                                        [13.53, 14.48]
data_MedianLifetime
                                          [16.0, 16.0]
data_MaxLifetime
                                         percentile_95 max_likelihood \
xc/eta
                                        [3.585, 3.721]
                                                                 4.356
                                      [19.111, 20.993]
beta/eta
                                                                30.923
xc^2/epsilon
                                          [1.1, 4.417]
                                                                 1.381
                                      [15.154, 16.395]
                                                                 18.27
хc
                                         [4.064, 4.09]
ExtH
                                                                 4.089
                                        [4.163, 9.988]
eta
                                                                 4.194
beta
                                    [128.032, 153.365]
                                                               129.681
                                  [1490.952, 2062.869]
epsilon
                                                               241.772
sqrt(xc/eta)
                                        [1.893, 1.929]
                                                                 2.087
s= eta^0.5*xc^1.5/epsilon
                                        [1.215, 1.279]
                                                                 0.661
beta*xc/epsilon
                                        [7.936, 8.362]
                                                                 9.799
eta*xc/epsilon
                                        [0.384, 0.393]
                                                                 0.317
```

Fx=beta^2/eta*xc	[38.365, 46.304]	219.496
<pre>Dx =beta*epsilon/eta*xc^2</pre>	[4.611, 5.325]	22.399
Pk=beta*k/epsilon	[0.0391, 0.0521]	0.268
Fk=beta^2/eta*k	[7033.681, 8787.323]	8020.219
<pre>Dk =beta*epsilon/eta*k^2</pre>	[128304.791, 151003.083]	29905.085
Fk^2/Dk=beta^3/eta*epsilon	[267.845, 337.886]	2150.936
epsilon/beta^2	[0.0627, 0.0975]	0.0144
k/beta	[0.00326, 0.0039]	0.00386
k^2/epsilon	[0.000121, 0.000167]	0.00103
best fit_MedianLifetime	[12.47, 13.47]	12.96
best fit_MaxLifetime	[25.0, 25.0]	25.0
data_MedianLifetime	[13.53, 14.48]	14.0
data_MaxLifetime	[16.0, 16.0]	16.0

	mode_overall
xc/eta	4.356
beta/eta	30.923
xc^2/epsilon	1.381
xc	18.27
ExtH	4.089
eta	4.194
beta	129.681
epsilon	241.772
sqrt(xc/eta)	2.087
s= eta^0.5*xc^1.5/epsilon	0.661
beta*xc/epsilon	9.799
eta*xc/epsilon	0.386
Fx=beta^2/eta*xc	43.474
<pre>Dx =beta*epsilon/eta*xc^2</pre>	5.206
Pk=beta*k/epsilon	0.268
Fk=beta^2/eta*k	8020.219
Dk =beta*epsilon/eta*k^2	29905.085
${\tt Fk^2/Dk=beta^3/eta*epsilon}$	2150.936
epsilon/beta^2	0.0144
k/beta	0.00386
k^2/epsilon	0.00103
best fit_MedianLifetime	NaN
best fit_MaxLifetime	NaN
data_MedianLifetime	NaN
data_MaxLifetime	NaN

5 5. Fits of simulations to data

best params is the sample with highest likelihood. mode trans is the 4D posterior mode in the transformed space of $x_c/\eta,\,\beta/\eta,\,x_c^2/\epsilon,\,x_c$

