Supporting Information to:

Spontaneous Mirror Symmetry Breaking: An Entropy Production Survey of the Racemate Instability and the Emergence of Stable Scalemic Stationary States

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Table S1. Concentrations and *ee* values for all NESSs of the system of Scheme in the autocatalytic range (b) 0 – 2.

n	Racemic				Instable Scalemic (D)				Stable Scalemic (D)			
	[A] (mol L^-1)	[D] (mol L^-1)	[L] (mol L^-1)	*ee (%)*	[A] (mol L^-1)	[D] (mol L^-1)	[L] (mol L^-1)	*ee (%)*	[A] (mol L^-1)	[D] (mol L^-1)	[L] (mol L^-1)	*ee (%)*
Thermodynamic Equilbrium	4.9997 10^-6	4.9997 10^-2	4.9997 10^-2	0								
0	5.05 10^-6	4.9997 10^-2	4.9997 10^-2	0								
0.1	5.07 10^–6	4.9997 10^2	4.9997 10^-2	0								
0.2	5.09 10^-6	4.9997 10^-2	4.9997 10^2	0								
0.3	5.12 10^-6	4.9997 10^-2	4.9997 10^-2	0								
0.4	5.17 10^-6	4.9997 10^-2	4.9997 10^-2	0								
0.5	5.22 10^-6	4.9997 10^-2	4.9997 10^-2	0								
0.6	5.30 10^-6	4.9997 10^-2	4.9997 10^-2	0								
0.7	5.41 10^-6	4.9997 10^-2	4.9997 10^-2	0								
0.8	5.55 10^-6	4.9997 10^-2	4.9997 10^-2	0								
0.9	5.74 10^-6	4.9997 10^-2	4.9997 10^-2	0								
1	6.0 10^-6	4.9997 10^-2	4.9997 10^-2	0								
1.1	6.49 10^-6	4.9997 10^-2	4.9997 10^-2	0								
1.2	6.82 10^-6	4.9997 10^-2	4.9997 10^-2	0								
1.3	7.46 10^-6	4.9996 10^-2	4.9996 10^-2	0	1.197 10^-5	9.978 10^-2	2.11 10^-4	99.569	1.199 10^-5	9.996 10^-2	2.351 10^-5	99.953
1.4	8.31 10^-6	4.9996 10^-2	4.9996 10^-2	0	1.233 10^-5	9.807 10^-2	1.91 10^-3	96,179	1.251 10^-5	9.997 10^-2	1.464 10^-5	99.971
1.5	9.47 10^-6	4.9995 10^-2	4.9995 10^-2	0	1.257 10^-5	9.291 10^-2	7.08 10^-3	85,836	1.312 10^-5	9.997 10^-2	1.384 10^-5	99.972
1.6	1.1 0 10^-5	4.9994 10^-2	4.9994 10^-2	0	1.259 10^-5	8.063 10^-2	1.94 10^-2	61.212	1.398 10^-5	9,997 10^-2	1.422 10^-5	99.972
1.7	1.31 10^-5	4.9993 10^-2	4.9993 10^-3						1.501 10^-5	9.997 10^-2	1.510 10^-5	99.970
1.8	1.60 10^-5	4.9992 10^-2	4.9992 10^-2	0					1.631 10^-5	9.997 10^-2	1.635 10^-5	99.967
1.9	1.98 10^-5	4.9990 10^-2	4.9990 10^-2	0					1.794 10^-5	9.996 10^-2	1.796 10^-5	99.964
2	2.50 10^-5	4.9987 10^-2	4.9987 10^-2	0					2.000 10^-5	9.996 10^-2	2.000 10^-5	99.960

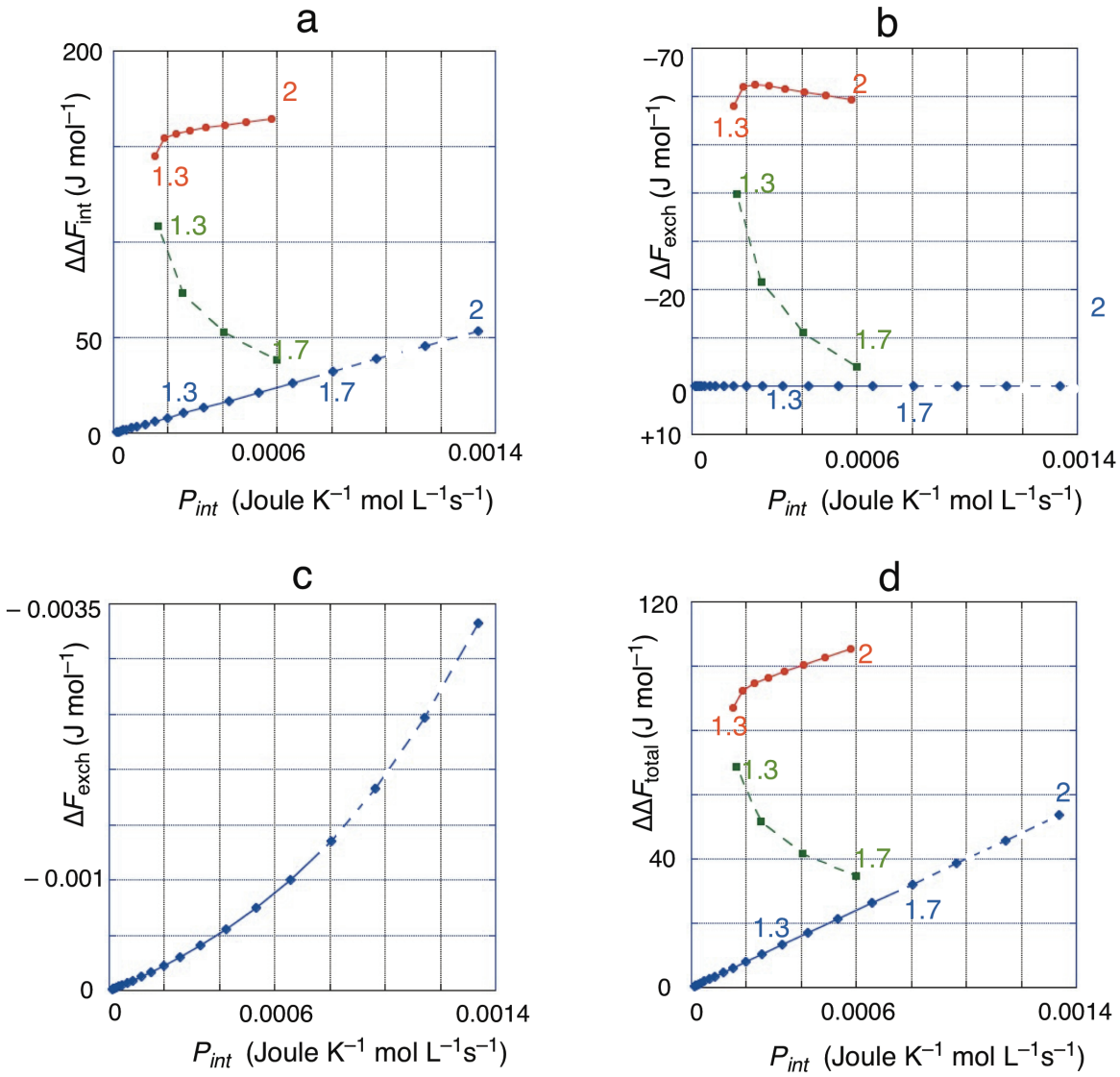

Figure S1. Relationship between $\Delta\Delta F_{int}$, ΔF_{exch} and their sum ($\Delta\Delta F_{total}$) *to* P_{int}. Fig. S1c is an amplification of Fig. S1b. Blue dots, racemic NESSs (stable for $n \leq 1.6$, unstable for $n \geq 1.7$); Green dots, unstable scalemic NESSs; Red dots, stable scalemic NESSs. The relationship of $\Delta\Delta F_{int}$ and $\Delta\Delta F_{exch}$ with P_{int} ($-P_{exch}$) is linear for the racemic NESS (thermodynamic branch) and probably also linear for the stable scalemic NESSs in the SMSB region ($1.7 \leq n \leq 2$).