Supplementary Material

Spontaneous Symmetry Breaking: The Case of Crazy Clock and Beyond

Maja C. Pagnacco[1*], Jelena P. Maksimović[2], Marko Daković[2], Bojana Bokic[3], Sébastien R. Mouchet[4a,5], Thierry Verbiest [6], Yves Caudano[4a,4b] and Branko Kolarić[3,7*]

University of Belgrade, Institute of Chemistry, Technology and Metallurgy, Center for Catalysis and Chemical Engineering, Njegoševa 12, Belgrade, Serbia; maja.pagnacco@nanosys.ihtm.bg.ac.rs or maja.milenkovic@ymail.com

[2] University of Belgrade, Faculty of Physical Chemistry, Studentski Trg 12, Belgrade, Serbia; jelena.maksimovic@ffh.bg.ac.rs and marko@ffh.bg.ac.rs

[3] Center for Photonics, Institute of Physics, University of Belgrade, Pregrevica 118, 11080 Belgrade, Serbia; bojana@ipb.ac.rs

[4a] Department of Physics & Namur Institute of Structured Matter (NISM), University of Namur, Rue de Bruxelles 61, 5000 Namur, Belgium; [4b] also Namur Institute for Complex Systems (naXys); yves.caudano@unamur.be

[5] School of Physics, University of Exeter, Stocker Road, Exeter EX4 4QL, UK; sebastien.mouchet@unamur.be

[6] Molecular Imaging and Photonics, Department of Chemistry, KU Leuven, Heverlee, Belgium; thierry.verbiest@fys.kuleuven.be

[7] Micro- and Nanophotonic Materials Group, University of Mons, Place du Parc 20, 7000 Mons, Belgium; branko.kolaric@umons.ac.be

* Correspondence: maja.pagnacco@nanosys.ihtm.bg.ac.rs or maja.milenkovic@ymail.com and branko.kolaric@umons.ac.be

Table S1. The Briggs-Rauscher oscillogram duration (τ_{osc}), the numbers of oscillations, and state I to state II transition time (τ^*) when no-mixing conditions is applied: $[\text{Malonic acid}]_0$ = 0.0789 M, $[MnSO_4]_0$ = 0.00752 M, $[HClO_4]_0$ = 0.03 M, $[KIO_3]_0$ = 0.0752 M, $[H_2O_2]_0$ = 1.176 M, T= 37.0 ^{0}C, reaction volume 25 ml.

Experiment Number #	τ_{osc} / min	Number of oscillations	τ^* / min
1	1.68	35	5.0
2	1.75	36	14.77
3	1.62	34	2.73
4	1.73	35	2.76
5	1.71	36	0.66
6	1.79	37	0.19
7	1.63	34	5.58
8	1.77	36	46.95
9	1.49	33	11.92

10	1.80	36	3.37
11	1.70	36	3.65
12	1.71	36	19.05
13	1.69	35	10.10
14	1.57	33	20.20
15	1.57	33	6.31
16	1.69	36	11.47
17	1.72	36	2.83
18	1.71	35	19.05
19	1.75	35	18.54
20	1.57	34	1.77
21	1.66	36	36.34
22	1.69	36	22.06
23	1.67	35	2.78
24	1.61	36	2.94
25	1.69	36	17.82
26	1.65	36	19.83
27	1.72	36	16.40
28	1.71	35	13.35
29	1.80	36	1.93
30	1.55	36	19.65
Mean value with 95% confidence limit	**1.68 ± 0.03**	**35.3 ± 0.4**	**12 ± 4**

Table S2. The Briggs-Rauscher oscillogram duration (τ_{osc}), the numbers of oscillations, and state I to state II transition time (τ^*) when 100 rpm mixing conditions is applied: [Malonic acid]$_0$ = 0.0789 M, [$MnSO_4$]$_0$ = 0.00752 M, [$HClO_4$]$_0$ = 0.03 M, [KIO_3]$_0$ = 0.0752 M, [H_2O_2]$_0$ = 1.176 M, T= 37.0 ^{0}C, reaction volume 25 ml.

Experiment Number #	τ_{osc} / min	Number of oscillations	τ^* / min
1	1.68	36	27.38
2	1.54	34	27.83
3	1.62	36	1.18
4	1.60	35	6.36
5	1.54	34	6.74
6	1.55	34	12.35
7	1.74	36	8.25
8	1.73	36	7.68
9	1.61	35	6.38
10	1.65	35	2.43
11	1.74	36	21.82
12	1.58	35	22.58
13	1.67	36	25.23
14	1.64	36	37.52
15	1.60	35	14.42
16	1.76	36	2.73
17	1.70	35	12.53
18	1.73	35	3.07
19	1.68	35	1.00
20	1.73	35	1.28

21	1.74	36	38.35
22	1.75	35	22.31
23	1.76	36	1.35
24	1.69	35	37.47
25	1.67	35	39.92
26	1.77	36	30.03
27	1.70	35	32.15
28	1.60	34	15.28
29	1.63	35	27.35
30	1.52	35	28.68
Mean value with 95% confidence limit	**1.66 ± 0.03**	**35.2 ± 0.3**	**17 ± 5**