

Pierre Illien

CNRS research scientist

PHENIX Laboratory (Physicochimie des Électrolytes et Nanosystèmes Interfaciaux)
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📖 Google Scholar

Research interests

Theory and modeling of soft matter, active matter, electrolytes; tracer diffusion in complex environments; non-equilibrium statistical physics; stochastic processes; low-Reynolds-number hydrodynamics.

Education

Sorbonne Université , Habilitation thesis (HDR)	2022
<i>Dynamics and correlations of tracers in complex environments</i>	
Reviewers: Denis Bartolo, Kirone Mallick, Emmanuel Trizac	
Université Pierre-et-Marie-Curie , PhD	2012-2015
<i>Fluctuations and correlations of a biased tracer in a hard-core lattice gas</i>	
Thesis advisors: Olivier Bénichou, Raphaël Voituriez (LPTMC)	
École Normale Supérieure, Paris	2009-2013
2012: Master in Fundamental Physics, specialization in Liquid Physics	
2010: Bachelor in Physics	
Lycée Saint-Louis, Paris , Classes préparatoires (intensive training in math, physics, chemistry), PCSI/PC*	2007-2009

Positions

PHENIX Laboratory, CNRS/Sorbonne Université, Paris	01/2019–present
CNRS research scientist	
ESPCI Paris, Gulliver Laboratory	09/2017–12/2018
Postdoctoral researcher, group of Olivier Dauchot	
University of Oxford, Rudolf Peierls Centre for Theoretical Physics	09/2015–06/2017
Postdoctoral researcher, group of Ramin Golestanian	

Research visits

Kavli Institute for Theoretical Physics, Santa Barbara (CA), USA	07/2026
Max-Planck-Institute for Dynamics and Self-Organization, Göttingen, Germany	11/2018, 08/2019, 06/2022, 04/2024
Max-Planck-Institute for the Physics of Complex Systems, Dresden, Germany	07/2017–09/2017

Teaching

École Normale Supérieure	since 2026
Member of the jury for the entrance exam (oral interviews in physics)	
École Nationale Supérieure de Chimie de Paris	2021
Numerical projects in C (2nd year)	
ESPCI Paris	2018–2023
Mathematics for Physics, tutorials (1st and 2nd year)	
University of Oxford	2017
Nonequilibrium Statistical Physics, tutorials (Master)	

Université Pierre-et-Marie-Curie Teaching assistant, Physics department Thermodynamics, electromagnetism	2013–2015
Lycée Saint-Louis Oral interviews in Physics, Chemistry, and Computer Science (MPSI, PCSI)	2011–2013

PhD supervision

Louison Le Bon <i>Statistical physics of non-equilibrium mixtures</i>	2025–present
Timothée Gautry <i>Simulations and analysis of dense bacterial monolayers</i> Co-supervision with M. Deforet (Laboratoire Jean Perrin)	2024–present
Léa Beales <i>Models and imaging of biological condensates around DNA</i> Co-supervision with V. Dahirel (PHENIX)	2023–present
Jacques Fries <i>Brownian dynamics of non-equilibrium liquid-liquid phase separations</i> Co-supervision with V. Dahirel (PHENIX). Current position: Research engineer at Michelin.	2022–2025
Pierre Rizkallah <i>Dynamics of a biased tracer in crowded environments</i> Co-supervision with O. Bénichou (LPTMC). Current position: Postdoctoral researcher at Collège de France.	2020–2023
Jeanne Decayeux <i>Mesosopic simulations of active matter: propulsion of an isotropic colloid</i> Co-supervision with M. Jardat and V. Dahirel (PHENIX). Current position: Postdoctoral researcher at Centre National de Recherches Météorologiques.	2019–2022

Internship supervision

Alban Martinaggi (M2 ICFP)	2026
Louison Le Bon (M2 ICFP)	2025
Pierre Champagnac (M2 PCS)	2024
Timothée Gautry (M2 ICFP)	2024
Anthony Benois (Centrale-Supélec)	2022
Pierre Rizkallah (M2 ICFP)	2020
Jimin Wu (M2 ICFP)	2020
Bastien Niau (L3 ENS)	2020

Academic service

Participation in PhD defense committees: Camille Jorge (ENS Lyon, reviewer); Samadarshi Maity (Univ. Leiden)	since 2024
Participation in a hiring committee (Sorbonne Université)	since 2025
Elected member of the CNRS National Committee (Section 5) and Scientific Secretary	2021–2025
Appointed member of the PHENIX Laboratory Council	2019–2024
Organization of the PHENIX seminar	2019–2023
Elected member of the LPTMC Council	2012–2015

Editorial responsibilities

Member of the Editorial Board of <i>New Journal of Physics</i>	since 2024
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Organization of scientific events

Co-organization of the DFT Days (Paris)	2026
Co-organization of the CECAM workshop Fluctuations in Soft and Charged Matter (Paris)	2026
Co-organization of the DFT Days (Nancy)	2025
Co-organization of the workshop Asymmetry in Interacting Particle Systems, Microscopic and Macroscopic Effects (Lille)	2022

Funding

CECAM Flagship Workshop (€12k)	2025
ANR JCJC, TraNonEq Project (€180k)	2024–2028
PRESTIGE Postdoctoral Fellowship (€15k)	2018

Publications

- [57] G. Jacucci, D. Breoni, **P. Illien**, L. Tubiana, J.-F. Allemand, S. Gigan, R. Jeanneret, *Controlling microalgae populations by phototactic memory*. [arXiv:2601.07741](#).
- [56] A. Squarcini, A. Tinti, **P. Illien**, O. Bénichou, T. Franosch, *Time-dependent dynamics in the confined lattice Lorentz gas*. [arXiv:2409.04293](#).
- [55] A. Squarcini, A. Tinti, **P. Illien**, O. Bénichou, T. Franosch, *Dimensional crossover via confinement in the lattice Lorentz gas*. [arXiv:2409.04289](#).
- [54] T. Gautry, M. Deforet, **P. Illien**, *Closures of moment expansion of anisotropic active Brownian particles*. *J. Stat. Mech.* **013207** (2026). [arXiv:2509.26453](#).
- [53] R. Sinaasappel, K. R. Prathyusha, H. Tuazon, E. Mirzahosseini, **P. Illien**, S. Bhamla, A. Deblais, *Collecting particles in confined spaces by active filamentous matter*. *Phys. Rev. X* **16**, 011003 (2026). [arXiv:2503.15755](#).
- 👉 **Featured in Physics Magazine** : [Worm-Inspired Active Filaments Sweep Disorder into Order](#).
- [52] J. Fries, R. Berthin, C. Luo, M. Jardat, D. Zwicker, V. Dahirel, **P. Illien**, *Chemically active droplets in crowded environments*. *Phys. Rev. E* **112**, 064410 (2025). [arXiv:2505.11188](#).
- [51] J. Fries, R. Berthin, M. Jardat, **P. Illien**, V. Dahirel, *Control of encounter kinetics by chemically active droplets*. *PNAS* **122**, e2511670122 (2025). [arXiv:2505.06153](#).
- 👉 **Press release (in French)** : ["Comment des gouttelettes dans les cellules régulent les réactions chimiques."](#)
- [50] L. Le Bon, A. Carof, **P. Illien**, *Non-Gaussian density fluctuations in the Dean-Kawasaki equation*. *Phys. Rev. E* **112**, 034127 (2025). [arXiv:2501.16206](#).
- [49] S. Varghese, **P. Illien**, B. Rotenberg, *Dynamic correlations in a polar fluid: confronting stochastic density functional theory to simulations*. *J. Chem. Phys.* **163**, 124107 (2025). [arXiv:2507.16239](#).
- [48] D. Venturelli, **P. Illien**, A. Grabsch, O. Bénichou, *Universal scale-free decay of spatial correlations in d-dimensional interacting particle systems*. *Phys. Rev. Lett.* **135**, 127101 (2025). [arXiv:2411.09326](#).
- [47] **P. Illien**, *The Dean-Kawasaki equation and stochastic density functional theory*. *Rep. Prog. Phys.* **88**, 086601 (2025). [arXiv:2411.13467](#).
- [46] D. Venturelli, **P. Illien**, A. Grabsch, O. Bénichou, *Dynamics of soft interacting particles on a comb*. *J. Phys. A: Math. Theor.* **58**, 215001 (2025). [arXiv:2502.16951](#).
- [45] J. Fries, J. Diaz, M. Jardat, I. Pagonabarraga, **P. Illien**, V. Dahirel, *Active droplets controlled by enzymatic reactions*. *J. Roy. Soc. Interface* **22**, 20240803 (2025). [arXiv:2411.11696](#).
- [44] R. Berthin, J. Fries, M. Jardat, V. Dahirel, **P. Illien**, *Microscopic and stochastic simulations of chemically active droplets*. *Phys. Rev. E* **111**, L023403 (2025). [arXiv:2406.14256](#).
- [43] **P. Illien**, A. Carof, B. Rotenberg, *Stochastic density functional theory for ions in a polar solvent*. *Phys. Rev. Lett.* **133**, 268002 (2024). [arXiv:2407.17232](#).
- [42] **P. Illien**, R. Golestanian, *Chemotactic particles as strong electrolytes: Debye-Hückel approximation and effective mobility law*. *J. Chem. Phys.* **160**, 154901 (2024). [arXiv:2402.09775](#).

- [41] A. Grabsch, T. Berlioz, P. Rizkallah, **P. Illien**, O. Bénichou, *Universal correlation profiles in single-file systems*. *Phys. Rev. Lett.* **132**, 037102 (2024) [🔗](#). [arXiv:2306.13516](#) [🔗](#).
- [40] J. Decayeux, V. Dahirel, M. Jardat, **P. Illien**, *Isotropic active colloids: explicit vs. implicit descriptions of propulsion mechanisms*. *Soft Matter* **19**, 8997 (2023) [🔗](#). [arXiv:2309.08455](#) [🔗](#).
- [39] A. Benois, M. Jardat, V. Dahirel, V. Démery, J. Agudo-Canalejo, R. Golestanian, **P. Illien**, *Enhanced diffusion of tracer particles in non-reciprocal mixtures*. *Phys. Rev. E* **108**, 054606 (2023) [🔗](#). [arXiv:2307.05408](#) [🔗](#).
- [38] O. Bernard, M. Jardat, B. Rotenberg, **P. Illien**, *On analytical theories for conductivity and self-diffusion in concentrated electrolytes*. *J. Chem. Phys.* **159**, 164105 (2023) [🔗](#). [arXiv:2306.16737](#) [🔗](#).
- [37] P. Rizkallah, A. Sarracino, O. Bénichou, **P. Illien**, *Absolute negative mobility of an active tracer in a crowded environment*. *Phys. Rev. Lett.* **130**, 218201 (2023) [🔗](#). [arXiv:2212.01216](#) [🔗](#).
- 👉 **Editors' suggestion.**
- [36] A. Grabsch, P. Rizkallah, A. Poncet, **P. Illien**, O. Bénichou, *Exact spatial correlations in single-file diffusion*. *Phys. Rev. E* **107**, 044131 (2023) [🔗](#). [arXiv:2302.02929](#) [🔗](#).
- [35] A. Grabsch, P. Rizkallah, **P. Illien**, O. Bénichou, *Driven tracer in the Symmetric Exclusion Process: linear response and beyond*. *Phys. Rev. Lett.* **130**, 020402 (2023) [🔗](#). [arXiv:2207.13079](#) [🔗](#).
- [34] P. Rizkallah, A. Grabsch, **P. Illien**, O. Bénichou, *Duality in single-file diffusion*. *J. Stat. Mech.* **013202** (2023) [🔗](#). [arXiv:2207.07549](#) [🔗](#).
- [33] M. Jardat, V. Dahirel, **P. Illien**, *Diffusion of a tracer in a dense mixture of soft particles connected to different thermostats*. *Phys. Rev. E* **106**, 064608 (2022) [🔗](#). [arXiv:2209.00929](#) [🔗](#).
- [32] J. Decayeux, M. Jardat, **P. Illien**, V. Dahirel, *Conditions for the propulsion of a colloid surrounded by a mesoscale phase separation*. *Eur. Phys. J. E* **45**, 96 (2022) [🔗](#). [arXiv:2212.03153](#) [🔗](#).
- [31] A. Grabsch, A. Poncet, O. Bénichou, **P. Illien**, *Exact time dependence of the cumulants of a tracer position in a dense lattice gas*. *Phys. Rev. E* **105**, 054139 (2022) [🔗](#). [arXiv:2202.09278](#) [🔗](#).
- [30] A. Grabsch, A. Poncet, P. Rizkallah, **P. Illien**, O. Bénichou, *Exact closure and solution for spatial correlations in single-file diffusion*. *Science Advances* **8**, eabm5043 (2022) [🔗](#). [arXiv:2110.09269](#) [🔗](#).
- 👉 **Press release (in French)** : "Une nouvelle équation pour la diffusion en ligne" [🔗](#)
- [29] J. Agudo-Canalejo, **P. Illien**, R. Golestanian, *Comment on "Relative Diffusivities of Bound and Unbound Protein Can Control Chemotactic Directionality"*. *Langmuir* **38**, 2746 (2022) [🔗](#). [arXiv:2110.12797](#) [🔗](#).
- [28] P. Rizkallah, A. Sarracino, O. Bénichou, **P. Illien**, *Microscopic theory for the diffusion of an active particle in a crowded environment*, *Phys. Rev. Lett.* **128**, 038001 (2022) [🔗](#). [arXiv:2112.07312](#) [🔗](#).
- [27] A. Poncet, A. Grabsch, **P. Illien**, O. Bénichou, *Generalised correlation profiles in single-file systems*, *Phys. Rev. Lett.* **127**, 220601 (2021) [🔗](#). [arXiv:2103.13083](#) [🔗](#).
- [26] J. Agudo-Canalejo, T. Adeleke-Larodo, **P. Illien**, R. Golestanian, *Synchronization and enhanced catalysis of mechanically coupled enzymes*, *Phys. Rev. Lett.* **127**, 208103 (2021) [🔗](#). [arXiv:2105.10215](#) [🔗](#).
- [25] J. Decayeux, V. Dahirel, M. Jardat, **P. Illien**, *Spontaneous propulsion of an isotropic colloid in a phase-separating environment*, *Phys. Rev. E* **104**, 034602 (2021) [🔗](#). [arXiv:2103.13244](#) [🔗](#).
- [24] A. Poncet, O. Bénichou, **P. Illien**, *Cumulant generating functions of a tracer in quenched dense symmetric exclusion processes*, *Phys. Rev. E* **103**, L040103 (2021) [🔗](#). [arXiv:2012.06490](#) [🔗](#).
- [23] J. Agudo-Canalejo, **P. Illien**, R. Golestanian, *Cooperatively enhanced reactivity and 'stabilitaxis' of dissociating oligomeric proteins*, *PNAS* **117**, 11894 (2020) [🔗](#). [arXiv:1911.02350](#) [🔗](#).
- [22] **P. Illien**, C. de Blois, Y. Liu, M. N. van der Linden, O. Dauchot, *Speed-dispersion-induced alignment: A one-dimensional model inspired by swimming droplets experiments*, *Phys. Rev. E* **101**, 040602 (2020) [🔗](#). [arXiv:1910.00525](#) [🔗](#).
- [21] A. I. Campbell, S. J. Ebbens, **P. Illien**, R. Golestanian, *Experimental observation of flow fields around active Janus spheres*, *Nature Comm.* **10**, 3952 (2019) [🔗](#). [arXiv:1802.04600](#) [🔗](#).
- [20] T. Adeleke-Larodo, **P. Illien**, R. Golestanian, *Fluctuation-induced hydrodynamic coupling in an asymmetric, anisotropic dumbbell*, *Eur. Phys. J. E* **42**, 39 (2019) [🔗](#). [arXiv:1712.06418](#) [🔗](#).

- [19] T. Bertrand, **P. Illien**, O. Bénichou, R. Voituriez, *Dynamics of run-and-tumble particles in dense single-file systems*, *New J. Phys.* **20**, 113045 (2018) [↗](#). arXiv:1807.03993 [↗](#).
- [18] O. Bénichou, **P. Illien**, G. Oshanin, A. Sarracino, R. Voituriez, *Tracer diffusion in crowded narrow channels. Topical review*, *J. Phys.: Condens. Matter* **30**, 443001 (2018) [↗](#). arXiv:1809.05010 [↗](#).
- [17] J. Agudo-Canalejo, T. Adeleke-Larodo, **P. Illien**, R. Golestanian, *Enhanced diffusion and chemotaxis at the nanoscale*, *Accounts Chem. Res.* **51**, 2365 (2018) [↗](#).
- [16] **P. Illien**, O. Bénichou, G. Oshanin, A. Sarracino, R. Voituriez, *Nonequilibrium fluctuations and enhanced diffusion of a driven particle in a dense environment*, *Phys. Rev. Lett.* **120**, 200606 (2018) [↗](#). arXiv:1709.01767 [↗](#).
- [15] J. Agudo-Canalejo, **P. Illien**, R. Golestanian, *Phoresis and enhanced diffusion compete in enzyme chemotaxis*, *Nano Lett.* **18**, 2711 (2018) [↗](#).
- [14] **P. Illien**, T. Adeleke-Larodo, R. Golestanian, *Diffusion of an enzyme: the role of fluctuation-induced hydrodynamic coupling*, *Europhys. Lett.* **119**, 40002 (2017) [↗](#).
- [13] **P. Illien**, X. Zhao, K. K. Dey, P. J. Butler, A. Sen, R. Golestanian, *Exothermicity is not a necessary condition for enhanced diffusion of enzymes*, *Nano Lett.* **17**, 4415 (2017) [↗](#).
- [12] **P. Illien**, R. Golestanian, A. Sen, *'Fuelled' motion: phoretic motility and collective behaviour of active colloids*, *Chem. Soc. Rev.* **46**, 5508 (2017) [↗](#).
- [11] **P. Illien**, O. Bénichou, *Propagators of random walks on comb lattices of arbitrary dimension*, *J. Phys. A: Math. Theor.* **49**, 265001 (2016) [↗](#). arXiv:1602:03477 [↗](#).
- [10] O. Bénichou, **P. Illien**, G. Oshanin, A. Sarracino, R. Voituriez, *Nonlinear response and emerging nonequilibrium micro-structures for biased diffusion in confined crowded environments*, *Phys. Rev. E* **93**, 032128 (2016) [↗](#). arXiv:1510.09133 [↗](#).
- [9] O. Bénichou, **P. Illien**, G. Oshanin, A. Sarracino, R. Voituriez, *Diffusion and subdiffusion of interacting particles on comb-like structures*, *Phys. Rev. Lett.* **115**, 220601 (2015) [↗](#). arXiv:1507.00539 [↗](#).
- [8] **P. Illien**, O. Bénichou, G. Oshanin, R. Voituriez *Distribution of the position of a driven tracer in a hardcore lattice gas*, *J. Stat. Mech.*, P11016 (2015) [↗](#). arXiv:1507.00484 [↗](#).
- [7] O. Bénichou, **P. Illien**, G. Oshanin, A. Sarracino, R. Voituriez, *Microscopic theory for negative differential mobility in crowded environments*, *Phys. Rev. Lett.* **113**, 268002 (2014) [↗](#). arXiv:1412.0956 [↗](#).
- [6] **P. Illien**, O. Bénichou, G. Oshanin, R. Voituriez, *Velocity anomaly of a driven tracer in a confined crowded environment*, *Phys. Rev. Lett.* **113**, 030603 (2014) [↗](#).
- [5] O. Bénichou, A. Bodrova, D. Chakraborty, **P. Illien**, A. Law, C. Mejia-Monasterio, G. Oshanin, R. Voituriez, *Geometry-induced superdiffusion in driven crowded systems*, *Phys. Rev. Lett.* **111**, 260601 (2013) [↗](#). arXiv:1310.8237 [↗](#).
- [4] **P. Illien**, O. Bénichou, C. Mejia-Monasterio, G. Oshanin, R. Voituriez, *Active transport in dense diffusive single-file systems*, *Phys. Rev. Lett.* **111**, 038102 (2013) [↗](#). arXiv:1303.2930 [↗](#).
- [3] O. Bénichou, **P. Illien**, C. Mejia-Monasterio, G. Oshanin, *A biased intruder in a dense quiescent medium: looking beyond the force-velocity relation*, *J. Stat. Mech.*, P05008 (2013) [↗](#).
- [2] O. Bénichou, **P. Illien**, G. Oshanin, R. Voituriez *Fluctuations and correlations of a driven tracer in a hard-core lattice gas*, *Phys. Rev. E* **87**, 032164 (2013) [↗](#). arXiv:1304.2230 [↗](#).
- [1] D. Pihler-Puzovic, **P. Illien**, M. Heil, A. Juel, *Suppression of complex fingerlike patterns at the interface between air and a viscous fluid by elastic membranes*, *Phys. Rev. Lett.* **108**, 074502 (2012) [↗](#).

👉 **Editors' suggestion.**

Oral communications

Invited talks

Multiscale modeling of chemically active mixtures, Lausanne, Switzerland

Oct. 2025

Longtime behaviors of stochastic processes, Clermont-Ferrand, France

June 2025

Building a bridge between non-equilibrium statistical physics and biology, Univ. of Cambridge, United Kingdom

July 2023

<i>Int. Conference on Monte Carlo Methods and Applications (mini-symposium), Paris, France</i>	June 2023
<i>Transport in narrow channels, IESC Cargèse, France</i>	Sept. 2022
<i>Probabilistic methods in statistical physics for extreme statistics and rare events, Pise, Italy</i>	Sept. 2018
<i>Stochastic Processes in Random Media, National University of Singapore, Singapore</i>	May 2015

Contributed talks

<i>Multiscale simulation methods in soft matter systems, Mainz, Germany</i>	May 2026
<i>Emergent dynamics of active colloids, Lausanne, Switzerland</i>	May 2026
<i>DFT Days, Nancy, France</i>	Sept. 2025
<i>STATPHYS29, Florence, Italy</i>	July 2025
<i>Journées de Physique Statistique, Paris, France</i>	Jan. 2025
<i>Motile Active Matter, Bonn, Germany</i>	Nov. 2024
<i>Journées du GDR SolVATE, Nancy, France</i>	Nov. 2024
<i>Faraday Discussions on Dense Ionic Liquids, Londres, United Kingdom</i>	July 2024
<i>Journées du GDR SolVATE, Nancy, France</i>	Nov. 2023
<i>Active Matter at Surfaces and in Complex Environments, MPIPKS, Dresde, Germany</i>	June 2023
<i>Journées de Physique Statistique, Paris, France</i>	Jan. 2023
<i>New Frontiers in Liquid Matter (in honor of J.-P. Hansen), Paris, France</i>	July 2022
<i>NANOTRANS network annual meeting, Barcelona, Spain</i>	Feb. 2020
<i>Wetting and capillarity in complex systems, Bad Honnef, Germany</i>	Nov. 2019
<i>GDR « Stimuler la matière molle », Reims, France</i>	May 2019
<i>APS March Meeting, Boston, United States</i>	March 2019
<i>Liquids at Interfaces, Bordeaux, France</i>	Oct. 2018
<i>Journées de Physique Statistique, Paris, France</i>	Jan. 2018
<i>Paris Biological Physics, Paris, France</i>	Nov. 2017
<i>APS March Meeting, New Orleans, United States</i>	March 2017
<i>Beg Rohu Summer School, Quiberon, France</i>	Aug. 2016
<i>Physics of Life, University of Oxford, United Kingdom</i>	Jan. 2016
<i>Journées de Physique Statistique, Paris, France</i>	Jan. 2016
<i>Active Liquids, Lorentz Institute, Leiden, Netherlands</i>	Sept. 2015
<i>Journées de Physique Statistique, Paris, France</i>	Jan. 2015
<i>Beg Rohu Summer School, Quiberon, France</i>	Sept. 2014
<i>SigmaPhi 2014, Rhodes, Greece</i>	July 2014
<i>Journées de Physique Statistique, Paris, France</i>	Jan. 2014

Seminars

<i>Séminaire de théorie, Laboratoire Gulliver, Paris, France</i>	Dec. 2025
<i>Laboratoire Gulliver, Paris, France</i>	March 2025
<i>Centre Interdisciplinaire de Nanoscience de Marseille, France</i>	Jan. 2025
<i>Max-Planck Institute for Dynamics and Self-Organization, Göttingen, Germany</i>	Avr. 2024
<i>Soft Matter Department, Institute of Physics, University of Amsterdam, Netherlands</i>	Nov. 2023
<i>Laboratoire Physico-Chimie Curie, Institut Curie, Paris, France</i>	June 2023
<i>Dept of Applied Math and Theoretical Physics, University of Cambridge, United Kingdom</i>	June 2022
<i>Laboratoire Jean Perrin, Sorbonne Université, Paris, France</i>	Dec. 2021
<i>Max-Planck Institute for Dynamics and Self-Organization, Göttingen, Germany</i>	June 2021
<i>Laboratoire Ondes et Matière d'Aquitaine, Bordeaux, France</i>	May 2019
<i>Institute for Theoretical Physics, KU Leuven, Belgium</i>	Feb. 2018
<i>LPTMS, Université Paris-Saclay, France</i>	Jan. 2018
<i>ESPCI Paris, France</i>	Nov. 2017
<i>PMMH, ESPCI Paris, France</i>	Oct. 2017
<i>Max-Planck Institute for the Physics of Complex Systems, Dresde, Germany</i>	Aug. 2017
<i>University of Oxford, United Kingdom</i>	June 2017
<i>Laboratoire de Physique Statistique, ENS Paris, France</i>	Oct. 2016
<i>LPTMS / LPS / MSC, Paris, France</i>	Sept. 2016
<i>Pennsylvania State University, United States</i>	Sept. 2015
<i>LPS-ENS, Paris, France</i>	March 2015
<i>LPTMC, Sorbonne Université, Paris, France</i>	Feb. 2015

