

Publications of Tamás Tél with acknowledgements to the Humboldt Foundation

- B. Kaszás, U. Feudel, and T. Tél,
[Tipping phenomena in typical dynamical systems subjected to parameter drift, supplement](#),
Scientific Reports **9**, 8654(12) (2019)
- T. Tél, L. Kadi, I.M. Jánosi, and M. Vincze,
[Experimental demonstration of the water-holding property of three-dimensional vortices](#),
Europhys. Lett. **123**, 44001(7) (2018)
- B. Kaszás, U. Feudel, and T. Tél,
[Leaking in history space: A way to analyze systems subjected to arbitrary driving](#),
Chaos **28**, 033612 (11) (2018)
- M. Gruiz, T. Meszéna, and T. Tél,
[Chaotic or just complicated? Ball bouncing down the stairs](#),
Eur. J. Phys. **38**, 055003(15) (2017)
- G. Drótos, T. Bódai, and T. Tél,
[On the importance of the convergence to climate attractors](#),
Eur. Phys. J. Special Topics **226**, 2031-2038 (2017)
- M. Herein, G. Drótos, T. Haszpra, J. Márfy, and T. Tél,
[The theory of parallel climate realizations as a new framework for teleconnection analysis, supplement](#),
Scientific Reports **7**, 44529(11) (2017)
- B. Kaszás, U. Feudel, and T. Tél,
[Death and revival of chaos](#),
Phys. Rev. E **94**, 062221(1-10) (2016)
- K. Guseva, A. Daitche, U. Feudel, and T. Tél,
[History effects in the sedimentation of light aerosols in turbulence: The case of marine snow](#),
Phys. Rev. Fluids **1**, 074203(1-22) (2016)
- G. Drótos, T. Bódai, and T. Tél,
[Quantifying nonergodicity in nonautonomous dissipative dynamical systems: An application to climate change](#),
Phys. Rev. E **94**, 022214 (1-16) (2016)
- M. Herein, J. Márfy, G. Drótos, and T. Tél,
[Probabilistic concepts in intermediate-complexity climate models: A snapshot attractor picture](#),
Journal of Climate **29**, 259-272 (2016)
- T. Haszpra and T. Tél,
[Individual particle based description of atmospheric dispersion: a dynamical systems approach](#),
in: The Fluid Dynamics of Climate, ed.: A. Provenzale, E. Palazzi, and K. Fraedrich,
Springer, New York, 2016, pp. 95-119

- T. Tél,
[The joy of transient chaos.](#)
Chaos **25**, 097619(1-11) (2015)
- G. Drótos, T. Bódai, and T. Tél,
[Probabilistic concepts in a changing climate: A snapshot attractor picture, supplement.](#)
Journal of Climate **28**, 3275-3288 (2015)
- E.G. Altmann, J.S.E. Portela, T. Tél,
[Chaotic Explosions.](#)
Eur. Phys. Lett. **109**, 30003(1-6) (2015)
- G. Drótos and T. Tél,
[On the validity of the beta-plane approximation in the dynamics and the chaotic advection of a point vortex pair model on a rotating sphere.](#)
J. Atmos. Sci. **72**, 415-429 (2015)
- G. Drótos, F.G. Montoya, C. Jung, T. Tél,
[Asymptotic observability of low-dimensional powder chaos in a three-degrees-of-freedom scattering system.](#)
Phys. Rev. E **90**, 022906(1-8) (2014)
- J. Vanyó, M. Vincze, I.M. Jánosi, T. Tél,
[Chaotic motion of light particles in an unsteady three-dimensional vortex: Experiments and simulation.](#)
Phys. Rev. E **90**, 013002(1-12) (2014)
- M Zsugyel, T. Tél, J Józsa,
[Numerical investigation of chaotic advection past a groyne based on laboratory flow experiment.](#)
Advances in Water Resources **71**, 81-92 (2014)
- A. Daitche and T. Tél,
[Memory effects in chaotic advection of inertial particles.](#)
New Journal of Physics **16**, 073008(1-30) (2014) (arXiv:1402.2875v2)
- T. Haszpra, T. Tél,
[Topological Entropy: A Lagrangian Measure of the State of the Free Atmosphere.](#)
J. Atmos. Sci. **70**, 4030-4040 (2013)
- E.G. Altmann, J.S.E. Portela, T. Tél,
[Chaotic Systems with Absorption, supplement.](#)
Phys. Rev. Lett. **111**, 144101(1-5) (2013)
- T. Haszpra, T. Tél,
[Escape rate: A Lagrangian measure of particle deposition from the atmosphere.](#)
Nonlin. Processes Geophys. **20**, 867-881 (2013)
- K. Guseva, U. Feudel, T. Tél,
[Influence of the history force on inertial particle advection: Gravitational effects and horizontal diffusion.](#)
Phys. Rev. E **88**, 042909(1-11) (2013)

- G. Drótos, T. Tél, G. Kovács,
[Modulated point-vortex pairs on a rotating sphere: Dynamics and chaotic advection.](#)
Phys. Rev. E **87**, 063017(1-11) (2013)
- T Bódai, G Károlyi, T Tél,
[Driving a conceptual model climate by different processes: Snapshot attractors and extreme events.](#)
Phys. Rev. E **87**, 022822(1-10) (2013)
- E. G. Altmann, J. S. E. Portela, and T. Tél,
[Leaking chaotic systems.](#)
Rev. Mod. Phys. **85**, 869- 918 (2013)
- T. Bódai and T. Tél,
[Annual variability in a conceptual climate model: Snapshot attractors, hysteresis in extreme events, and climate sensitivity.](#)
Chaos **22**, 023110(1-11) (2012)
- A. Daitche and T. Tél,
[Memory effects are relevant for chaotic advection of inertial particles.](#)
Phys. Rev. Lett. **107**, 244501(1-5) (2011)