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Research interest: Dynamical systems, ergodic theory, applications to partial differential equations and number theory.

Recent publications:

[1] Th. Gallay, S. Slijepčević, *"Uniform boundedness and long-time asymptotics for the two-dimensional Navier-Stokes equations in an infinite cylinder",* **Journal of Mathematical Fluid Mechanics** 17 (2015), 23-46.
[2] S. Slijepčević, *„The energy flow of discrete extended gradient systems"*. **Nonlinearity 26** (2013), 2051-2079.
[3] Th. Gallay, S. Slijepčević, *„Energy bounds for the two-dimensional Navier-Stokes equations in an infinite cylinder",* **Comm. in Partial Differential Equations 39** (2014), 1741-1769
[4] S. Slijepčević, "*On van der Corput property of shifted primes",* **FunctionesetApproximatio Comm. Math**. **48** (2013), 37-50.
[5] S. Slijepčević, "*The Aubry-Mather theorem for driven generalized elastic chains",* **Discrete Continuous Dynam. Systems A 34** (2014), 2983-3011.

Selected publications:

[1] S. Slijepčević,*„The shear-rotation interval of twist maps"*, **Ergodic Theory Dynam. Systems 22** (2002), 303—313
[2] Th. Gallay, S. Slijepčević, *„Energy flow in formally gradient partial differential equations on unbounded domains*. **J. Dynam. Differential Equations 13** (2001), no. 4, 757--789.
[3] S. Slijepčević, *„Construction of invariant measures of Lagrangian maps: minimisation and relaxation",* **Math. Z. 237** (2001), no. 3, 469—504.
[4] S. Slijepčević, *„Extended gradient systems: dimension one",* **Discrete Contin. Dynam.Systems 6** (2000), no. 3, 503--518.
[5] S. Slijepčević, *„Monotone gradient dynamics and Mather's shadowing",* **Nonlinearity 12** (1999), no. 4, 969--986.