

# Croatian scientific bibliography (CROSBİ)

## Nedjelja 8. Svibanj 2016

Journal articles and review articles in CC journals (6)

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### Journal articles and review articles in CC journals

1. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Characterization of nonuniform exponential trichotomies for flows.** // *Journal of mathematical analysis and applications.* **434** (2016) , 1; 376-400 (journal article).

2. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Fredholm operators and nonuniform exponential dichotomies.** // *Chaos, solitons and fractals.* **85** (2016) ; 120-127 (journal article).

3. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Admissibility and nonuniformly hyperbolic sets.** // *Electronic Journal of Qualitative Theory of Differential Equations.* **10** (2016) ; (journal article).

4. Dragičević, Davor; Preda, Ciprian.

**Lyapunov theorems for exponential dichotomies in Hilbert spaces.** // *International journal of mathematics.* **27** (2016) , 4; 1650033-1-1650033-13 (journal article).

5. Korkut, Luka; Vlah, Domagoj; Županović, Vesna.

**Geometrical properties of systems with spiral trajectories in  $\mathbb{R}^3$ .** // *ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS.* **2015** (2015) , 276; 1-19 (journal article).

6. Slijepčević, Siniša.

**Stability of synchronization in dissipatively driven Frenkel-Kontorova models.** // *Chaos.* **25** (2015) ; 083108-1-083108-9 (journal article).

### Papers accepted for publication in the cc journals

1. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Tempered exponential dichotomies: admissibility and stability under perturbations.** // *Dynamical systems-an international journal.* (2016) (accepted for publication).

2. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Tempered exponential dichotomies and Lyapunov exponents for perturbations.** // *Communications in contemporary mathematics.* (2015) (accepted for publication).

3. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Nonuniform stability of arbitrary difference equations.** // *Results in mathematics*. (2015) (accepted for publication).

4. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Strong nonuniform spectrum for arbitrary growth rates.** // *Communications in contemporary mathematics*. (2015) (accepted for publication).

#### Scientific papers in other journals

1. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Nonuniform hyperbolicity and one-sided admissibility.** // *Rendiconti Lincei-Matematica e Applicazioni*. **27** (2016) , 2; 235-247 (journal article).

#### Conference reports (abstracts) in other journals

1. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

**Fractal tube formulas for relative fractal drums in arbitrary Euclidean spaces via Lapidus zeta functions** // *Abstracts of Papers Presented to the American Mathematical Society / Savage, Carla D. ; Benkart, Georgia ; Boe, Brian D. ; Lapidus, Michel L. ; Weintraub, Steven H., editor(s)*. Providence, RI, USA : American Mathematical Society, 2016. 128-129 (invited talk,international peer-review,abstract,scientific).

#### Papers in the publishing process

1. Anušić, Ana; Bruin, Henk; Činč, Jernej.

**Uncountably many planar embeddings of unimodal inverse limit spaces.** // *arXiv*. (2016).

2. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Exponential dichotomies in average for flows and admissibility.** // *Publicationes mathematicae*. (2016) (accepted for publication).

3. Dragičević, Davor.

**A note on the theorem of Johnson, Palmer and Sell.** // *Periodica mathematica Hungarica*. (2016) (accepted for publication).

4. Dragičević, Davor; Froyland, Gary.

**Hölder continuity of Oseledets splittings for semi- invertible operator cocycles.** // *Rad je poslan u časopis. Ime časopisa upisat ćemo nakon objave rada. Rad se nalazi na adresi <http://arxiv.org/pdf/1603.01421v1.pdf>*. (2016).

5. Korkut, Luka; Vlah, Domagoj; Žubrinić, Darko; Županović, Vesna.

**Wavy spirals and their fractal connection with chirps.** // *Mathematical Communications*. (2016) (accepted for publication).

6. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

**Zeta Functions and Complex Dimensions of Relative Fractal Drums: Theory, Examples and Applications.** // *arXiv*. (2016).

7. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

**Fractal Zeta Functions and Fractal Drums: Higher-Dimensional Theory of Complex Dimensions.** // *Springer Monographs in Mathematics*. (2016) (accepted for publication).

8. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

**Fractal Tube Formulas for Compact Sets and Relative Fractal Drums: Oscillations, Complex Dimensions and Fractality.** // *arXiv*. (2016).

9. Mardešić, Pavao; Resman, Maja; Rolin, Jean-Philippe; Županović, Vesna.

**Normal forms and embeddings for power-log transseries.** // *ArXiv 1505.05929v2*. (2016).

10. Radunović, Goran.

**Fractality and Lapidus zeta functions at infinity.** // *Mathematical communications*. (2016) (accepted for publication).

11. Slijepčević, Siniša.

**Variational construction of positive entropy measures of Lagrangian systems I: small perturbations.** // *arXiv*. (2016).

12. Anušić, Ana; Bruin, Henk; Činč, Jernej.

**The Core Ingram Conjecture for non-recurrent critical points.** // *ArXiv*. (2015).

13. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**A version of a theorem of Pliss for nonuniform and noninvertible dichotomies.** // *Proceedings of the Royal Society of Edinburgh: Section A Mathematics*. (2015) (accepted for publication).

14. Horvat Dmitrović, Lana; Županović, Vesna.

**Characteristic box dimension of unit-time map near nilpotent singularity of planar vector field and applications.** // *arXiv*. (2015).

15. Lapidus, Michel L.; Radunović, Goran; Žubrinić Darko.

**Fractal tube formulas and a Minkowski measurability criterion for compact subsets of Euclidean spaces.** // *arXiv*. (2015).

16. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

**Distance and tube zeta functions of fractals and arbitrary compact sets.** // *arXiv*. (2015).

17. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

**Complex dimensions of fractals and meromorphic extensions of fractal zeta functions.** // *arXiv*. (2015).

18. Rabar, Braslav; Slijepčević, Siniša.

**The transport speed and optimal work in pulsating Frenkel-Kontorova models.** // *Physica D: Nonlinear Phenomena*. (2015).

19. Resman, Maja.

**Box dimension of a hyperbolic saddle loop.** // *Arxiv 1505.02404*. (2015).

#### Abstracts in Book of abstracts

1. Slijepčević, Siniša.

**Statistika u kliničkim ispitivanjima** // *Data Science Monetization 2016*. (invited talk, domestic peer-review, abstract, expert).

2. Anušić, Ana; Bruin, Henk; Činč, Jernej.

**The Core Ingram Conjecture for non-recurrent critical orbit** // . (invited talk, international peer-review, abstract, scientific).

3. Slijepčević, Siniša.

**Entropy of Lagrangian systems and invariant sets of extended gradient systems** // *Dynamics of evolution equations* / Genevieve Raugel, editor(s). Luminy, Francuska, 2016. 15-15 (invited talk, international peer-review, abstract, scientific).

4. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

**Spectral theory under nonuniform hyperbolicity** // . (invited talk, abstract, scientific).

5. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

**Tube formulas for relative fractal drums in Euclidean spaces via Lapidus zeta functions** // . (poster, international peer-review, abstract, scientific).

6. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

**Lapidus zeta functions of fractal sets and their residues** // *Fractals and Related Fields III : abstracts*.  
(lecture,international peer-review,abstract,scientific).

7. Pavao Mardešić.

**Bounding zeros of pseudo-abelian integrals** // *Seminar Jiao Tong University, Shanghai, Kina*.  
(invited talk,international peer-review,abstract,scientific).

8. Rolin, Jean-Philippe; Vlah, Domagoj; Županović, Vesna.

**Oscillatory Integrals and Fractal Dimension** // .  
(poster,international peer-review,abstract,scientific).

9. Slijepčević, Siniša.

**Arnold's diffusion and formally gradient dynamics of the action functional** // *Equadiff 2015*.  
(lecture,international peer-review,abstract,scientific).

10. Resman, Maja.

**Epsilon-neighborhoods of orbits and classifications of parabolic germs** // .  
(invited talk,international peer-review,abstract,scientific).

11. Slijepčević, Siniša.

**Invariant measures of extended scalar dissipative equations** // *Dynamical Systems, Ergodic Theory and Probability*.  
(lecture,international peer-review,abstract,scientific).

12. Lana Horvat Dmitrović, Vesna Županović.

**Characteristic box dimension of Poincare map of nilpotent focus** // *EQUADIFF 2015*.  
Lyon : Universite Claude Bernard 1, 2015. 232-232 (lecture,international peer-review,abstract,scientific).

13. Slijepčević, Siniša.

**Dynamics of Extended Gradient Systems** // *Dynamics of Extended Gradient Systems* / Turaev, Dmitry and Zelig, Sergey, editor(s).  
Nizhniy Novgorod, 2015. 18-18 (invited talk,international peer-review,abstract,scientific).

#### Dissertations

1. Rabar, Braslav.

**Dynamics of nonautonomous Frenkel-Kontorova model** / doctoral thesis.  
Zagreb : Prirodoslovno matematički fakultet, 11.06. 2015., 80 pages. Mentor: Slijepčević, Siniša.

#### Other papers

1. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

**Fractal analysis of unbounded sets in Euclidean spaces: complex dimensions and Lapidus zeta functions**, 2015.