

Publications of Stefano Francaviglia

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Preprints

- (With Alessio Savini) Volume rigidity at ideal points of the character variety of hyperbolic 3-manifolds.
Preprint, June 2017. (arxiv:1706.07347.)
- (With Armando Martino) On the connectivity of level sets of automorphisms of free groups, with applications to decision problems.
Preprint, March 2017. (arxiv:1703.09945.)
- (with Gabriel Calsamiglia and Bertrand Deroin) A transfer principle: from periods to isoperiodic foliations.
Preprint, November 2015. (arxiv:1511.07635.)
- (with Jean-François Lafont) Asymptotic cones, bi-Lipschitz ultraflats, and the geometric rank of geodesics.
Preprint, January 2008 (arXiv:0801.3636.) Not intended for publication.

Published

1. (with Armando Martino) Stretching factors, metrics and train tracks for free products.
Illinois Journal of Mathematics 59(4), 859—899 **2015** (Published in February 2017).
2. (with Mathieu Carette, Ilya Kapovich, and Armando Martino) Corrigendum to “Spectral rigidity of automorphic orbits in free groups”.
Algebraic & Geometric Topology 14(5), 3081—3088 **2014**.
3. (With Gabriel Calsamiglia and Bertrand Deroin) Branched projective structures with Fuchsian holonomy.
Geometry & Topology 18(1), 379—446 **2014**.
4. (With Gabriel Calsamiglia and Bertrand Deroin) The oriented graph of multi-graftings in the Fuchsian case.
Publicacions Matemàtiques 58(1), 31—46 **2014**.

5. (With Roberto Frigerio and Bruno Martelli) Stable complexity and simplicial volume of manifolds.
J. of Topology 5(4), 977–1010 **2012**.
6. (with Armando Martino) The isometry group of Outer space.
Advances in Mathematics 231(3-4), 1940–1973 **2012**.
7. (with Mathieu Carette, Ilya Kapovich, and Armando Martino) Spectral rigidity of automorphic orbits in free groups.
Algebraic & Geometric Topology, 12(3), 1457–1486, **2012**.
8. (with Armando Martino) Metric properties of Outer space.
Publicacions Matemàtiques, 55(2), 433–473, **2011**.
9. (with Jean-François Lafont) Large scale detection of half-flats in CAT(0)-spaces.
Indiana University Mathematics Journal, 59(2), 395–416, **2010**.
10. Geodesic currents and length compactness for automorphisms of free groups.
Trans. of AMS, 361(1), 161–176, **2009**.
11. Constructing equivariant maps for representations.
Annales de l’institut Fourier, 59(1), 392–428, **2009**.
12. (with Joan Porti) Rigidity of representations in $SO(4, 1)$ for Dehn fillings on 2-bridge knots.
Pacific Journal of Mathematics, 238(2), 249–274, **2008**.
13. (with Benjamin Klaff) Maximal volume representations are Fuchsian.
Geometriæ Dedicata, 117:111–124, **2006**.
14. Similarity structures on the torus and the Klein bottle via triangulations.
Advances in Geometry, 6(3):397–421, **2006**.
15. Hyperbolic volume of representations of fundamental groups of cusped 3-manifolds.
Int. Math. Res. Not., (9):425–459, **2004**.
16. Algebraic and geometric solutions of hyperbolicity equations.
Topology and its Applications, 145(1-3):91–118, **2004**.

17. *Hyperbolicity equations for cusped 3-manifolds and volume-rigidity of representations.*
PhD thesis, Scuola Normale Superiore, Pisa, 2003.
Further published in *Tesi*, vol. 2, **Edizioni Scuola Normale Superiore di Pisa, 2005.**
18. Tautness of codimension-1 foliations in dimension 3 and transversality with embedded surfaces.
Rend. Accad. Naz. Sci. XL Mem. Mat. Appl. (5), 24:121–157, **2000.**