

Publications of Stefano Francaviglia

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Preprints

- (With Roberto Frigerio and Bruno Martelli) Stable complexity and simplicial volume of manifolds. Preprint, January 2012. (arXiv:1201.0660.)
- (with Mathieu Carette, Ilya Kapovich, and Armando Martino) Spectral rigidity of automorphic orbits in free groups. Preprint, June 2011 (arXiv:1106.0688.)
- (with Armando Martino) The isometry group of Outer space. Preprint, December 2009 (arXiv:0912.0299.)
- (with Jean-François Lafont) Asymptotic cones, bi-Lipschitz ultraflats, and the geometric rank of geodesics. Preprint, January 2008 (arXiv:0801.3636.)

Published

1. (with Armando Martino) Metric properties of Outer space. **Publications Mathématiques**, 55(2), 433–473, **2011**.
2. (with Jean-François Lafont) Large scale detection of half-flats in CAT(0)-spaces. **Indiana University Mathematics Journal**, 59(2), 395–416, **2010**.
3. Geodesic currents and length compactness for automorphisms of free groups. **Trans. of AMS**, 361(1), 161–176, **2009**.
4. Constructing equivariant maps for representations. **Annales de l'institut Fourier**, 59(1), 392–428, **2009**.
5. (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**.
6. (with Benjamin Klaff) Maximal volume representations are Fuchsian. **Geometriæ Dedicata**, 117:111–124, **2006**.

7. Similarity structures on the torus and the Klein bottle via triangulations. **Advances in Geometry**, 6(3):397–421, **2006**.
8. Hyperbolic volume of representations of fundamental groups of cusped 3-manifolds. **Int. Math. Res. Not.**, (9):425–459, **2004**.
9. Algebraic and geometric solutions of hyperbolicity equations. **Topology and its Applications**, 145(1-3):91–118, **2004**.
10. *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**.
11. 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**.