

Liste des Publications et Travaux de partenaires GAMME

Mis à jour le 16 mars 2017

Geometry of Locally compact groups

- G. Arzhantseva, R. Tessera. Admitting a coarse embedding is not preserved under group extensions, (2016), submitted. arXiv:1605.01192
- G. Arzhantseva, R. Tessera. Relative expanders. *Geom. Funct. Anal.* 25(2) (2015), 317–341.
- I. Benjamini, R. Tessera. First passage percolation on nilpotent Cayley graphs and beyond. *Elect. J. Probab. (EJP)* 20 (2015), 1–20.
- P.E. Caprace. Non-discrete simple locally compact groups. Preprint (2016), 23 pages. To appear in the Proceedings of the 7th European Congress of Mathematics.
- I. Chatterji, D. Witte Morris and R. Shah: Relative Property (T) for Nilpotent Subgroups. Preprint 2017.
- I. Chatterji, A. Martin: A note on the acylindrical hyperbolicity of groups acting on CAT(0) cube complexes. Preprint 2016.
- I. Chatterji, D. Kahrobaei and N. Y. Lu: Cryptosystems using subgroup distortion. Preprint 2016.
- I. Chatterji, G. Mislin and Ch. Pittet: Flat bundles with complex analytic holonomy. *The Quarterly Journal of Mathematics* 2016, Volume 67, Issue 4, 743 - 755.
- Y. Cornuier, R. Tessera. Geometric presentations of Lie groups and their Dehn functions. À paraître dans *Publ. IHES*.

- Y. Cornulier. Gradings on Lie algebras, systolic growth, and cohopfian properties of nilpotent groups, *Bull. Soc. Math. France* 144(4) (2016) 693-744.
- Y. Cornulier. On sublinear bilipschitz equivalence of groups.
- B. Duchesne and N. Monod. Structural properties of dendrite groups. preprint, October 2016a. URL <https://hal.archives-ouvertes.fr/hal-01388407>.
- F. Le Maître, P. Wesolek. On strongly just infinite profinite branch groups, accepté dans *Journal of Group Theory*
- M. de la Salle, R. Tessera. Local-to-global rigidity of Bruhat-Tits buildings. Accepté dans *J. Illinois*.
- M. de la Salle, R. Tessera. Characterizing a vertex-transitive graph by a large ball. Accepté dans *J. Topology*.

The following section does not strictly correspond to the original project, but lies somewhere between locally compact groups and measured theory, hence can be seen as an emerging subject within our project.

Polish groups

- I. Ben Yaacov, J. Melleray, T. Tsankov, Metrizable universal minimal flows of Polish groups have a comeagre orbit, *Geometric and Functional Analysis*, 27(1), 67-77.
- I. Ben Yaacov and T. Ibarlucía, T. Tsankov. Eberlein oligomorphic groups *Trans. Amer. Math. Soc.*, to appear.
- I. Ben Yaacov, M. Doucha, A. Nies, T. Tsankov. Metric Scott analysis. Preprint, 2016.
- A. Carderi, Le Maître. Orbit full groups for locally compact groups, accepté dans *Transactions of the AMS*.
- A. Carderi, Le Maître. More Polish full groups, avec Alessandro Carderi, *Topol. Appl.* (2016) 202: 80-105
- A. Kaïchouh, F. Le Maître. Connected Polish groups with ample generics, *Bull. London Math. Soc.* (2015) 47 (6): 996-1009

- F. Le Maître. Highly faithful actions and dense free subgroups in full groups, accepté dans Groups, Geometry and Dynamics.
- F. Le Maître. Infinitesimal topological generators and quasi non-archimedean topological groups, Topol. Appl. (2017) 218: 97-113

L^p -ME and related subjects

- A. Alvarez et V. Lafforgue. Actions affines isométriques propres des groupes hyperboliques sur des quotients d'espaces ℓ^p Prépublication, 2016.
- A. Alvarez et V. Lafforgue. Actions affines isométriques propres des groupes hyperboliques sur des espaces ℓ^p Expositiones Mathematicae, 2016.
- K. Das. From the geometry of box spaces to the geometry and measured couplings of groups , K. Das. Accepted in J. Topology and Analysis (2016).
- K. Das, R. Tessera. Integrable measure equivalence and the central extension of surface groups. Group Geom. Dyn. 10(3) 2016, 965–983.
- D. Hume, J. Mackay, R. Tessera. Poincaré profiles of groups and spaces.

Poisson Boundaries, IRS

- U. Bader, J. Lecureux, B. Duchesne, Amenable Invariant Random Subgroups, avec un appendice de Phillip Wesolek. À paraître dans Israel Journal of Mathematics
- U. Bader, J. Lecureux, B. Duchesne,. Almost algebraic actions of Algebraic Groups and applications to Algebraic Representations, avec Uri Bader et Bruno Duchesne À paraître dans Groups, Geometry and Dynamics.
- U. Bader, P.E. Caprace, J. Lecureux. On the linearity of lattices in affine buildings and ergodicity of the singular Cartan flow.
- B. Duchesne and N. Monod. Group actions on dendrites and curves. preprint, September 2016b. URL <https://hal.archives-ouvertes.fr/hal-01359816>.
- B. Duchesne. Groups acting on spaces of non-positive curvature. Written for the handbook of group actions, March 2016. URL <https://hal.archives-ouvertes.fr/hal-01288346>.

- T. Fernós, J. Lecureux, F. Mathéus. Random Walks and Boundaries of CAT(0) Cubical Complexes.

Sofic entropy, measurable and topological dynamics

- D. Gaboriau, A. Ioana and R. Tucker-Drob, Cocycle superrigidity for translation actions of product groups.
- D. Gaboriau, B. Seward. Cost, ℓ^2 -Betti numbers and the sofic entropy of some algebraic actions.
- D. Gaboriau, R. Tucker-Drob. Approximations of standard equivalence relations and Bernoulli percolation at p_u .
- M. Sabok, T. Tsankov. On the complexity of topological conjugacy of Toeplitz subshifts (with M. Sabok). Israel J. Math., to appear.

Survols et livres

- I. Chatterji. Introduction to the Rapid Decay property. Preprint 2016.
- P. de la Harpe, Y. Cornulier. Metric geometry of locally compact groups; EMS Tracts in Mathematics Vol. 25, European Math. Society, September 2016.
- B. Duchesne. Groups acting on spaces of non-positive curvature. Written for the handbook of group actions, March 2016. URL <https://hal.archives-ouvertes.fr/hal-01288346>.
- D. Gaboriau. Entropie sofique, d'après Lewis Bowen, David Kerr et Hanfeng Li (séminaire Bourbaki, 16 janvier 2016)