Vincent Pilaud ■ Publications

All my publications are available on my webpage http://www.lix.polytechnique.fr/~pilaud/.

Journals

[J1] V. Pilaud & F. Santos. *Multitriangulations as complexes of star-polygons. Discrete & Computational Geometry*, vol. 41(2), pp. 284 – 317, 2009.

[J2] J. Ferté, V. Pilaud & M. Pocchiola. *On the number of simple arrangements of five double pseudolines. Discrete & Computational Geometry*, vol. 45(2), pp. 279 – 302, 2011.

[J3] B. Matschke, J. Pfeifle & V. Pilaud. *Prodsimplicial neighborly polytopes. Discrete & Computational Geometry*, vol. 46(1), pp. 100 – 131, 2011.

[J4] J. Pfeifle, V. Pilaud & F. Santos. *Polytopality and Cartesian products of graphs. Israel Journal of Mathematics*, vol. 192(1), pp. 121 – 141, 2012.

[J5] V. Pilaud & M. Pocchiola. *Multitriangulations, pseudotriangulations and primitive sorting networks. Discrete & Computational Geometry*, vol. 48(1), pp. 142 – 191, 2012.

[J6] V. Pilaud & F. Santos. *The brick polytope of a sorting network. European Journal of Combinatorics*, vol. 33(4), pp. 632 – 662, 2012.

[J7] M. Jiang, V. Pilaud & P. Tejada. *On a dispersion problem in grid labeling. SIAM Journal on Discrete Mathematics*, vol. 26(1), pp. 39 – 51, 2012.

[J8] V. Pilaud & C. Stump. *EL-labelings and canonical spanning trees for subword complexes. Discrete Geometry and Optimization, Fields Institute Communications Series, Springer*, pp. 213 – 248, 2013.

[J9] N. Hähnle, S. Klee & V. Pilaud. *Obstructions to weak decomposability for simplicial polytopes. Proceedings of the American Mathematical Society*, vol. 142(9), pp. 3249 – 3257, 2014.

[J10] J. Bokowski & V. Pilaud. *Enumerating topological (n_k)-configurations. Computational Geometry : Theory and Applications*, vol. 47(2), pp. 175 – 186, 2014.

[J11] V. Pilaud & J. Rué. *Analytic combinatorics of chord and hyperchord diagrams with k crossings. Advances in Applied Mathematics*, vol. 57, pp. 60 – 100, 2014.

[J12] V. Pilaud & C. Stump. *Vertex barycenter of generalized associahedra. Proceedings of the American Mathematical Society*, vol. 143(6), pp. 2623 – 2636, 2015.

[J13] C. Ceballos & V. Pilaud. *Denominator vectors and compatibility degrees in cluster algebras of finite type. Transactions of the American Mathematical Society*, vol. 367, pp. 1421 – 1439, 2015.

[J14] V. Pilaud & C. Stump. *Brick polytopes of spherical subword complexes and generalized associahedra. Advances in Mathematics*, vol. 276, pp. 1 – 61, 2015.

[J15] J. Bokowski & V. Pilaud. *On topological and geometric (19_4) configurations. European Journal of Combinatorics*, vol. 50, pp. 4 – 17, 2015.

[J16] T. Manneville & V. Pilaud. *Graph properties of graph associahedra. Séminaire Lotharingien de Combinatoire*, B73d, 31 pp., 2015.

[J17] C. Ceballos & V. Pilaud. *Cluster algebras of type D: pseudotriangulations approach. Electronic Journal of Combinatorics*, vol. 22(4), #P4.44, 27 pp., 2015.

[J18] C. Ceballos & V. Pilaud. *The diameter of type D associahedra and the non-leaving-face property. European Journal of Combinatorics*, vol. 51, pp. 109 – 124, 2016.

[J19] J. Bokowski & V. Pilaud. *Quasi-configurations: building blocks for point-line configurations. ARS Mathematica Contemporanea*, vol. 10(1), pp. 99 – 112, 2016.

[J20] T. Manneville & V. Pilaud. *Compatibility fans for graphical nested complexes. Journal of Combinatorial Theory, Series A*, vol. 150C, pp. 36 – 107, 2017.

[J21] G. Chatel & V. Pilaud. *Cambrian Hopf Algebras. Advances in Mathematics*, vol. 311, pp. 598 – 633, 2017.

[J22] V. Pilaud. *Which nestohedra are removahedra? Revista Colombiana de Matemáticas*, vol. 51, pp. 21 – 42, 2017.

[J23] A. Dermenjian, C. Hohlweg & V. Pilaud. *The facial weak order and its lattice quotients. Transactions of the American Mathematical Society*, vol. 370(2), pp. 1469 – 1507, 2018.

[J24] V. Pilaud. *Brick polytopes, lattice quotients, and Hopf algebras. Journal of Combinatorial Theory, Series A*, vol. 155, pp. 418 – 457, pp., 2018.

[J25] C. Hohlweg, V. Pilaud & S. Stella. *Polytopal realizations of finite type **g**-vector fans. Advances in Mathematics*, vol. 328, pp. 713 – 749, 2018.

[J26] C. Lange & V. Pilaud. *Associahedra via spines.* Accepted in *Combinatorica*, 44 pp., 2018.

[J27] V. Pilaud & V. Pons. *Permutrees.* Accepted in *Algebraic Combinatorics*, 43 pp., 2018.

International conferences

[Ci1] V. Pilaud & F. Santos. *Multitriangulations as complexes of star-polygons.* FPSAC'08 (poster). *20th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 319 – 330, 2008.   cf. [J1]

[Ci2] V. Pilaud & M. Pocchiola. *Multipseudotriangulations.* EuroCG'09. *25th European Workshop on Computational Geometry*, pp. 227 – 230, 2009.   cf. [J5]

[Ci3] J. Bokowski & V. Pilaud. *On symmetric realizations of the simplicial complex of 3-crossing-free sets of diagonals of the octagon.* CCCG'09. *21st Canad. Conf. on Computational Geometry*, 4 pp., 2009.

[Ci4] M. Jiang, V. Pilaud & P. Tejada. *On a dispersion problem in grid labeling.* CCCG'10. *22st Canad. Conf. on Computational Geometry*, 8 pp., 2010.   cf. [J7]

[Ci5] J. Bokowski & V. Pilaud. *Enumerating topological (n_k)-configurations.* CCCG'11. *23rd Canad. Conf. on Computational Geometry*, 6 pp., 2011.   cf. [J10]

[Ci6] V. Pilaud & F. Santos. *The brick polytope of a sorting network.* FPSAC'11. *23th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 777 – 788, 2011.   cf. [J6]

[Ci7] V. Pilaud & C. Stump. *Generalized associahedra via brick polytopes.* FPSAC'12. *24th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 73 – 84, 2012.   cf. [J14]

[Ci8] C. Ceballos & V. Pilaud. *Denominator vectors and compatibility degrees in cluster algebras of finite type.* FPSAC'13. *25th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 85 – 96, 2013.   cf. [J13]

[Ci9] V. Pilaud & C. Stump. *EL-labelings and canonical spanning trees for subword complexes.* FPSAC'13 (poster). *25th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 611 – 622, 2013.   cf. [J8]

[Ci10] V. Pilaud. *Signed tree associahedra.* FPSAC'14 (poster). *26th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 309 – 320, 2014.   cf. [P1]

[Ci11] V. Pilaud & J. Rué. *Analytic combinatorics of chord and hyperchord diagrams with k crossings.* AofA'14. *25th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms*, DMTCS Proc., 339 – 350, 2014.   cf. [J11]

[Ci12] G. Chatel, C. Lange & V. Pilaud. *Cambrian trees. Oberwolfach report*, pp. 43 – 44, 2015.   cf. [J21, J25]

[Ci13] G. Chatel & V. Pilaud. *The Cambrian Hopf Algebra.* FPSAC'15. *27th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 61 – 72, 2015.   cf. [J21]

[Ci14] C. Ceballos, T. Manneville, V. Pilaud & L. Pournin. *Diameters and geodesic properties of generalizations of the associahedron.* FPSAC'15 (poster). *27th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 345 – 356, 2015.   cf. [J18 & J16]

[Ci15] V. Pilaud & M. Pocchiola. *Multitriangulations, pseudotriangulations and friezes. Oberwolfach report*, 3 pp., 2015.   cf. [J5]

[Ci16] A. Dermenjian, C. Hohlweg & V. Pilaud. *The facial weak order in finite Coxeter groups.* FPSAC'16. *28th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 359 – 370, 2016.
cf. [J23]

[Ci17] T. Manneville & V. Pilaud. *Compatibility fans realizing graphical nested complexes.* FPSAC'16. *28th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 827 – 838, 2016.
cf. [J20]

[Ci18] V. Pilaud. *Brick polytopes, lattices and Hopf algebras.* FPSAC'16 (poster). *28th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, DMTCS Proc., pp. 1003 – 1014, 2016. cf. [J24]

[Ci19] A.-H. Bateni, T. Manneville & V. Pilaud. *On quadrangulations and Stokes complexes.* EuroComb'17. *European Conference on Combinatorics, Graph Theory and Applications*, ENDM, Vol. 61, pp. 107 – 113, 2017.
cf. [P3]

[Ci20] V. Pilaud & V. Pons. *Permutrees.* EuroComb'17. *European Conference on Combinatorics, Graph Theory and Applications*, ENDM, Vol. 61, pp. 987 – 993, 2017. cf. [J26]

[Ci21] Y. Palu, V. Pilaud & P.-G. Plamondon. *Non-kissing complexes for gentle algebras.* FPSAC'18. *30th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, SLC Proc., 12 pp., 2018. cf. [P4]

[Ci22] C. Hohlweg, V. Pilaud & S. Stella. *Universal associahedra.* FPSAC'18. *30th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, SLC Proc., 12 pp., 2018. cf. [J27]

[Ci23] V. Pilaud & V. Pons. *Algebraic structures on integer posets.* FPSAC'18 (poster). *30th Intern. Conf. Formal Power Series and Algebraic Combinatorics*, SLC Proc., 12 pp., 2018. cf. [P2]

National conferences

[C1] V. Pilaud & F. Santos. *Multitriangulations as complexes of star-polygons. VI Jornadas de Matemática Discreta y Algorítmica*, pp. 501 – 508, 2008. cf. [J1]

[C2] J. Ferté, V. Pilaud & M. Pocchiola. *On the number of simple arrangements of five double pseudolines. 18th Fall Workshop on Computational Geometry*, 2 pp., 2008. cf. [J2]

[C3] J. Ferté, V. Pilaud & M. Pocchiola. *On the number of simple arrangements of five double pseudolines. XV Midsummer Combinatorial Workshop*, 2009. cf. [J2]

[C4] J. Bokowski & V. Pilaud. *On symmetric realizations of the simplicial complex of 3-crossing-free sets of diagonals of the octagon. XIII Encuentros de Geometría Computacional*, 8 pp., 2009. cf. [Ci3]

[C5] J. Pfeifle, V. Pilaud & F. Santos. *Polytopality of Cartesian products of graphs. VII Jornadas de Matemática Discreta y Algorítmica*, pp. 529 – 540, 2010. cf. [J4]

[C6] V. Pilaud & F. Santos. *A generalization of Loday's associahedron. VII Jornadas de Matemática Discreta y Algorítmica*, pp. 541 – 552, 2010. (Poster) cf. [J6]

[C7] V. Pilaud. *The greedy flip tree of a subword complex. 8ème Conf. de Génération Aléatoire de Structures Combinatoires*, 11 pp., 2012. cf. [J8]

Preprints

[P1] V. Pilaud. *Signed tree associahedra.* Preprint, 50 pp., `arXiv:1309.5222`, 2013.

[P2] G. Chatel, V. Pilaud & V. Pons. *The weak order on integer posets.* Preprint, 38 pp., `arXiv:1701.07995`, 2017.

[P3] T. Manneville & V. Pilaud. *Geometric realizations of the accordion complex of a dissection.* Preprint, 22 pp., `arXiv:1703.09953`, 2017.

[P4] Y. Palu, V. Pilaud & P.-G. Plamondon. *Non-kissing complexes and tau-tilting for gentle algebras.* Preprint, 69 pp., `arXiv:1707.07574`, 2017.

[P5] V. Pilaud, P.-G. Plamondon & S. Stella. *A τ-tilting approach to dissections of polygons.* Preprint, 7 pp., `arXiv:1710.02119`, 2017.

[P6] V. Pilaud & F. Santos. *Quotientopes*. Preprint, 8 pp., arXiv:1711.05353, 2017.

[P7] V. Pilaud. *Hopf algebras on decorated noncrossing arc diagrams*. Preprint, 14 pp., arXiv:1801.03867, 2018.