

# Liste de publications de MATH

## Articles dans des revues avec comité de lecture

### A paraître

Bonheure, D., Foldes, J., Saldana De Fuentes, A., Tavares, H. H., & Moreira dos Santos, E. (2018). Paths to uniqueness of critical points and applications to partial differential equations. *Transactions of the American Mathematical Society*.

Bonheure, D., Casteras, J.-B., Gou, T., & Jeanjean, L. (2018). Strong Instability of Ground States to a Fourth Order Schrödinger Equation. *International mathematics research notices*, rnx273-rnx273.

Bonheure, D., Nys, M., & Van Schaftingen, J. (2018). Properties of groundstates of nonlinear Schrödinger equations under a weak constant magnetic field. *Journal de mathématiques pures et appliquées*.

Benchetrit, Y., Fiorini, S., Thong Huynh, T. C., & Weltge, S. (s.d.). Characterizing polytopes contained in the 0/1-cube with bounded Chvátal-Gomory rank. *Mathematics of operations research*.

Meintanis, S., & Verdebout, T. (2018). Le Cam maximin tests for symmetry of circular data based on the characteristic function. *Statistica sinica*.

### 2018

Denuit, M., Mesfioui, M., & Trufin, J. (2018, mars 01). Bounds on concordance-based validation statistics in regression models for binary responses. *Methodology and Computing in Applied Probability*.

Leemans, D., Schulte, E., & van Maldeghem, H. (2018). Groups of Ree type in characteristic 3 acting on polytopes. *Ars Mathematica contemporanea*, 14(2), 209-226.

Denuit, M., & Trufin, J. (2018, janvier 01). Collective loss reserving with two types of claims in motor third party liability insurance. *Journal of computational and applied mathematics*, 335, 168-184.

Ornea, L., Verbitskiy, M., & Vuletescu, V. (2018). Weighted bott-Chern and dolbeault cohomology for LCK-manifolds with potential. *Journal of the Mathematical Society of Japan*, 70(1), 409-422. doi:10.2969/jmsj/07017171

### 2017

Denuit, M., & Trufin, J. (2017, décembre 06). Beyond the Tweedie model: the collective approach to loss development. *North American actuarial journal*, 21(4), 611-619.

Lefèvre, C., Trufin, J., & Zuyderhoff, P. (2017, novembre 01). Some comparison results for finite-time ruin probabilities in the classical risk model. *Insurance. Mathematics & economics*, 77, 143-149. doi:10.1016/j.insmatheco.2017.09.004

Leemans, D., & Liebeck, M. M. (2017, août). Chiral polyhedra and finite simple groups. *Bulletin of the London Mathematical Society*, 49(4), 581-592. doi:10.1112/blms.12041

Cameron, P., Fernandes, M. E., Leemans, D., & Mixer, M. (2017, juillet). Highest rank of a polytope for An. *Proceedings of the London Mathematical Society*, 115(1), 135-176. doi:10.1112/plms.12039

Verbitskiy, M. (2017, juillet). Transcendental Hodge algebra. *Selecta mathematica, New series*, 23(3), 2203-2218. doi:10.1007/s00029-017-0307-9

Bonheure, D., Cingolani, S., & Van Schaftingen, J. (2017, juin). The logarithmic Choquard equation: Sharp asymptotics and nondegeneracy of the groundstate. *Journal of functional analysis*, 272(12), 5255-5281. doi:10.1016/j.jfa.2017.02.026

Bonheure, D., Casteras, J.-B., & Noris, B. (2017, juin). Multiple positive solutions of the stationary Keller–Segel system. *Calculus of variations and partial differential equations*, 56(3), 74. doi:10.1007/s00526-017-1163-3

Fiorini, S., Thong Huynh, T. C., Joret, G., & Pashkovich, K. (2017, avril). Smaller Extended Formulations for the Spanning Tree Polytope of Bounded-Genus Graphs. *Discrete & computational geometry*, 57(3), 757-761. doi:10.1007/s00454-016-9852-9

Bonheure, D., Casteras, J.-B., & Noris, B. (2017, mars). Layered solutions with unbounded mass for the Keller–Segel equation. *Journal of Fixed Point Theory and Applications*, 19(1), 529-558. doi:10.1007/s11784-016-0364-2

Bonettini, S., Loris, I., Porta, F., Prato, M., & Rebegoldi, S. (2017, mars). On the convergence of a linesearch based proximal-gradient method for nonconvex optimization. *Inverse problems*, 33(5), 055005. doi:10.1088/1361-6420/aa5bfd

Bonheure, D., & Rossi, J. D. (2017, février). The behavior of solutions to an elliptic equation involving a p-Laplacian and a q-Laplacian for large p. *Nonlinear analysis*, 150, 104-113. doi:10.1016/j.na.2016.11.001

Bonheure, D., Coelho, M. I., & Nys, M. (2017, février). Heteroclinic solutions of singular quasilinear bistable equations. *NoDEA. Nonlinear differential equations and applications*, 24(1), 2. doi:10.1007/s00030-016-0418-6

Cerovecki, C., & Hörmann, S. (2017, février). On the CLT for discrete Fourier transforms of functional time series. *Journal of Multivariate Analysis*, 154, 282-295. doi:10.1016/j.jmva.2016.11.006

Denuit, M., Dhaene, J., Hanbali, H., Lucas, N., & Trufin, J. (2017, janvier 15). Updating mechanism for lifelong insurance contracts subject to medical inflation. *European Actuarial Journal*, 7(1), 133-163. doi:10.1007/s13385-016-0142-y

Bonheure, D., & Hamel, J. F. (2017, janvier). One-dimensional symmetry and Liouville type results for the fourth order Allen-Cahn equation in  $\mathbb{N}$ . *Chinese annals of mathematics. Ser. B*, 38(1), 149-172. doi:10.1007/s11401-016-1065-2

Bonheure, D., & Nascimento, R. (2017). Waveguide solutions for a nonlinear Schrödinger equation with mixed dispersion. *Progress in nonlinear differential equations and their applications*, 86, 31-53. doi:10.1007/978-3-319-19902-3\_4

Deelstra, G., & Simon, M. (2017). Multivariate European option pricing in a Markov-modulated Lévy framework. *Journal of computational and applied mathematics*, 317, 171-187. doi:10.1016/j.cam.2016.11.040

Ballotta, L., Deelstra, G., & Rayée, G. (2017). Multivariate FX models with jumps: triangles, Quantos and implied correlation. *European journal of operational research*, 10.1016/j.ejor.2017.02.018. doi:10.1016/j.ejor.2017.02.018

Fiorini, S., Thong Huynh, T. C., Joret, G., & Varvitsiotis, A. (2017). The excluded minors for isometric realizability in the plane. *SIAM journal on discrete mathematics*, 31(1), 438-453. doi:10.1137/16M1064775

Aprile, M., Faenza, Y., Fiorini, S., Thong Huynh, T. C., & Macchia, M. (2017). Extension complexity of stable set polytopes of bipartite graphs. *Lecture notes in computer science*, 10520 LNCS, 75-87. doi:10.1007/978-3-319-68705-6\_6

Gloria, A., & Otto, F. (2017). Quantitative results on the corrector equation in stochastic homogenization. *Journal of the European Mathematical Society*, 19(11), 3489-3548. doi:10.4171/JEMS/745

Jansen, M., & Amghar, M. (2017). Multiscale Local Polynomial Decompositions using bandwidths as scales. *Statistics and computing*, 27(5), 1383-1399. doi:10.1007/s11222-016-9692-8

Leemans, D., Moerenhout, J., & O'Reilly-Regueiro, E. (2017). Projective linear groups as automorphism groups of chiral polytopes. *Journal of geometry*.

Ley, C., Swan, Y.-C., & Verdebout, T. (2017). Efficient ANOVA for directional data. *Annals of the Institute of Statistical Mathematics*, 69, 39-62.

Paindaveine, D., & Verdebout, T. (2017). Inference on the mode of weak directional signals: A Le Cam perspective on hypothesis testing near singularities. *Annals of statistics*, 45, 800-832.

Cutting, C., Paindaveine, D., & Verdebout, T. (2017). Testing uniformity on high-dimensional spheres against monotone rotationally symmetric alternatives. *Annals of statistics*, 45, 1024-1048.

Amiri, A., Thiam, B., & Verdebout, T. (2017). On the Estimation of the Density of a Directional Data Stream. *Scandinavian journal of statistics*, 44(1), 249-267.

Ley, C., & Verdebout, T. (2017). Skew-rotationally-symmetric distributions on the unit sphere and related efficient inferential procedures. *Journal of Multivariate Analysis*, 159, 67-81.

Verdebout, T. (2017). On the efficiency of some rank-based test for the homogeneity of concentrations. *Journal of statistical planning and inference*, 191, 101-109.

Paindaveine, D., Rasoafaraniaina, R. J., & Verdebout, T. (2017). Preliminary test estimation for multi-sample principal components. *Econometrics and Statistics*, 2, 106-116. doi:10.1016/j.ecosta.2017.01.004