

Liste de publications de MATH

Articles dans des revues avec comité de lecture

A paraître

Bonheure, D., & Galdi, G. P. (2024). Global Weak Solutions to a Time-Periodic Body-Liquid Interaction Problem. *Annales de l'Institut Henri Poincaré. Analyse non linéaire.*, To appear.

Boucher, M., Francq, C., Goto, Y., & Verdebout, T. (2025). On runs tests for directional data and their local and asymptotic optimality properties. *Statistica sinica*.

Boucher, M., Meilan-Vila, A., Meurice, V., & Verdebout, T. (2025). On a modified Watson test. *Statistical papers*.

Peralvo Maroto, L., Paindaveine, D., & Verdebout, T. (2026). Rank tests for PCA under weak identifiability. *Annals of statistics*.

Fischer, A., Gaunt, R., & Swan, Y. (2025). Stein's Method of Moments on the Sphere. *Bernoulli*.

Batista, E., Hautekiet, W., Saracco, P., & Vercruysse, J. (2025). Towards a classification of simple partial comodules of Hopf algebras. *Journal of algebra*, 664, 312-347. doi:10.1016/j.jalgebra.2024.10.005

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Leemans, D., & Toledo Roy, M. A. (2025). Faithful and thin non-polytopal maniplexes. *Ars Mathematica contemporanea.*, P1.04.

Hou, D. D., Feng, Y. Q., & Leemans, D. (2025). Regular 3-polytopes of order $2n$ p. *Journal of group theory*. doi:10.1515/jgth-2024-0154

Araujo-Pardo, G., Conder, M., Garcia Colin, N., Kiss, G., & Leemans, D. (2025). A note on girth-diameter cages. *The art of discrete and applied mathematics*, 8, 3.06.

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Hou, D. D., Feng, Y. Q., Leemans, D., & Qu, H. P. (2025). String C-groups of order $4pm$. *Communications in algebra*. doi:10.1080/00927872.2025.2459858

Fischer, A., Gaunt, R., & Swan, Y. (2025). Stein's method of moments for truncated multivariate distributions. *Electronic Journal of Statistics*, 19(1), 1784-1808. doi:10.1214/25-EJS2373

Fiorini, S., Joret, G., Weltge, S., & Yuditsky, Y. (2025). Integer programs with bounded subdeterminants and two nonzeros per row. *Journal of the Association for Computing Machinery*, 72(1), 3.

Aprile, M., Fiorini, S., Joret, G., Kober, S., Seweryn, M. M., Weltge, S., & Yuditsky, Y. (2025). Integer programs with nearly totally unimodular matrices: the cographic case*. *Proceedings of the annual ACM-SIAM Symposium on Discrete Algorithms*, 2301-2312.

Fine, J., He, W., & Yao, C. (2025). Convergence of the hypersymplectic flow on T^4 with T^3 -symmetry. *Journal of the London Mathematical Society*, 111(6). doi:10.1112/jlms.70217

Alonso Garcia, J., Boado-Penas, M. D. C., & Eisenberg, J. (2025). Assessing public pensions using risk measures: pay-as-you-go versus mixed schemes. *Scandinavian actuarial journal*, 1-27. doi:10.1080/03461238.2025.2514601

Premoselli, B., & Robert, F. (2025). One-bubble nodal blow-up for asymptotically critical stationary Schrödinger-type equations. *Journal of functional analysis*, 288(6), 110808. doi:10.1016/j.jfa.2024.110808

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Morsomme, H., Alonso Garcia, J., & Devolder, P. (2024). Intergenerational risk sharing in pay-as-you-go pension schemes. *Scandinavian actuarial journal*, 1-29. doi:10.1080/03461238.2024.2427229

Loris, I., & Rebegoldi, S. (2024). Convergence analysis of a primal-dual optimization-by-continuation algorithm. *Journal of computational and applied mathematics*, 452, 116299. doi:10.1016/j.cam.2024.116299

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Mansanarez, P., Poly, G., & Swan, Y. (2024). Derivatives of Entropy and the MMSE Conjecture. *IEEE transactions on information theory*, 70(11), 7647-7663. doi:10.1109/TIT.2024.3466566

Batista, E., Hautekiet, W., & Vercruysse, J. (2024). A comonadicity theorem for partial comodules. *Quaestiones mathematicae*. doi:10.2989/16073606.2024.2322011

Grosskopf, P., & Vercruysse, J. (2024). Free and co-free constructions for Hopf categories. *Journal of pure and applied algebra*, 228(10), 107704. doi:10.1016/j.jpaa.2024.107704

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Bonheure, D., Casteras, J.-B., & Premoselli, B. (2024). Classification of radial blow-up at the first critical exponent for the Lin–Ni–Takagi problem in the ball. *Mathematische Annalen*. doi:10.1007/s00208-024-02888-8

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- Delbrouck, C., & Alonso Garcia, J. (2024). COVID-19 and Excess Mortality: An Actuarial Study. *Risks*, 12(4), 61. doi:10.3390/risks12040061
- Wolf, F. L., Deelstra, G., & Grzelak, L. (2024). Consistent asset modelling with random coefficients and switches between regimes. *Mathematics and computers in simulation*, 223, 65-85. doi:10.1016/j.matcom.2024.03.021
- Jansen, M. (2024). Information criteria for structured parameter selection in high dimensional tree and graph models. *Digital signal processing*, 148, 104437.
- Saracco, P., & Vercruysse, J. (2024). Geometric partial comodules over flat coalgebras in Abelian categories are globalizable. *Journal of pure and applied algebra*, 228(3), 107502. doi:10.1016/j.jpaa.2023.107502
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- Alonso Garcia, J., Sherris, M., Thirurajah, S., & Ziveyi, J. (2024). Taxation and policyholder behavior: the case of guaranteed minimum accumulation benefits. *ASTIN bulletin*, 1-28. doi:10.1017/asb.2023.38