

PUBLICATION LIST

LAURENTIU MAXIM

Published

- (1) *Intersection homology and Alexander modules of hypersurface complements*,
Comm. Math. Helvetici 81 (2006), no. 1, 123–155.
- (2) *A decomposition theorem for the peripheral complex associated with hypersurfaces*,
Int. Math. Res. Not. 43 (2005), 2627–2656.
- (3) *Multivariable Alexander invariants of hypersurface complements*,
Trans. Amer. Math. Soc. 359 (2007), no. 7, 3505–3528.
(with A. Dimca)
- (4) *On the Alexander invariants of hypersurface complements*,
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World Scientific, 2007, pp. 725–744.
- (5) *Higher-order Alexander invariants of plane algebraic curves*,
Int. Math. Res. Not., Volume 2006 (2006), Article ID 12976, 23 pages.
(with C. Leidy)
- (6) *Euler characteristics of algebraic varieties*,
Comm. Pure Appl. Math. 61 (2008), no. 3, 409–421.
(with S. Cappell and J. Shaneson)
- (7) *Hodge genera of algebraic varieties, I.*,
Comm. Pure Appl. Math. 61 (2008), no. 3, 422–449.
(with S. Cappell and J. Shaneson)
- (8) *Obstructions on fundamental groups of plane curve complements*,
in “Real and Complex Singularities”, **Contemp. Math.** 459 (2008), 117–130.
(with C. Leidy)
- (9) *Hodge genera and characteristic classes of complex algebraic varieties*,
Electron. Res. Announc. Math. Sci. 15 (2008), 1–7.
(with S. Cappell, A. Libgober and J. Shaneson)
- (10) *Hodge genera of algebraic varieties, II.*,
Math. Ann. 345 (2009), no. 4, 925–972.
(with S. Cappell, A. Libgober and J. Shaneson)
- (11) *L^2 -Betti numbers of plane algebraic curves*,
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- (12) *Intersection cohomology invariants of complex algebraic varieties*,
in “Singularities I: Algebraic and Analytic Aspects”, **Contemp. Math.** 474 (2008), 15–25.
(with S. Cappell and J. Shaneson)
- (13) *Hodge-theoretic Atiyah-Meyer formulae and the stratified multiplicative property*,
in “Singularities I: Algebraic and Analytic Aspects”, **Contemp. Math.** 474 (2008), 145–167.
(with J. Schürmann)
- (14) *Equivariant genera of complex algebraic varieties*,
Int. Math. Res. Not., Vol. 2009, no. 11, 2013–2037.
(with S. Cappell and J. Shaneson)
- (15) *On the Milnor classes of complex hypersurfaces*,
in “Topology of Stratified Spaces”, **MSRI Publications** 58, Cambridge University Press
(2011), 161–175.
- (16) *Characteristic classes of complex hypersurfaces*,
Adv. Math. 225 (2010), no. 5, 2616–2647.
(with S. Cappell, J. Schürmann and J. Shaneson)
- (17) *Hodge polynomials of singular hypersurfaces*,
Michigan Math. J. 60 (2011), no. 3, 661–673.
(with A. Libgober)
- (18) *Hirzebruch invariants of symmetric products*,
in “Topology of Algebraic Varieties and Singularities”, **Contemp. Math.** 538 (2011), 163–
177.
(with J. Schürmann)
- (19) *Symmetric products of mixed Hodge modules*,
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- (20) *Twisted genera of symmetric products*,
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- (21) *Equivariant characteristic classes of complex algebraic varieties*,
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(with S. Cappell, J. Schürmann and J. Shaneson)
- (22) *Deformation of singularities and the homology of intersection spaces*,
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(with M. Banagl)
- (23) *Intersection Spaces and Hypersurface Singularities*,
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(with M. Banagl)
- (24) *Characteristic numbers, genera, and resolutions*,
in “Advances in Mathematics: Invited Contributions to the Seventh Congress of Romanian
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- (25) *Characteristic classes of Hilbert schemes of points via symmetric products*,
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(with S. Cappell, T. Ohmoto, J. Schürmann and S. Yokura)
- (26) *Hirzebruch-Milnor classes of complete intersections*,
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- (27) *L^2 -Betti numbers of hypersurface complements*,
Int. Math. Res. Not. Vol. 2014, No. 17, pp. 4665–4678.
- (28) *Characteristic classes of singular toric varieties – research announcement*,
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(with J. Schürmann)
- (29) *Intersection spaces, perverse sheaves and type IIB string theory*,
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- (30) *Characteristic classes of singular toric varieties*,
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- (31) *Reidemeister torsion, peripheral complex, and Alexander polynomials of hypersurface complements*,
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(with Y. Liu)
- (32) *Motivic infinite cyclic covers*,
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(with M. Gonzalez Villa, A. Libgober)
- (33) *Intersection spaces, perverse sheaves and string theory*,
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- (34) *Hirzebruch-Milnor classes and Steenbrink spectra of certain projective hypersurfaces*,
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- (35) *Characteristic classes of symmetric products of complex quasi-projective varieties*,
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(with S. Cappell, J. Schürmann, J. Shaneson and S. Yokura)
- (36) *Twisted Novikov homology of complex hypersurface complements*,
Math. Nachr. 290 (2017), no. 4, 604–612; DOI: 10.1002/mana.201600242.
(with S. Friedl)
- (37) *Characteristic varieties of hypersurface complements*,
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- (38) *Spectral pairs, Alexander modules, and boundary manifolds*,
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(with Y. Liu)

- (39) *Characteristic classes of mixed Hodge modules and applications*,
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(with J. Schürmann)
- (40) *Equivariant characteristic classes of external and symmetric products of varieties*,
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(with J. Schürmann)
- (41) *Thom-Sebastiani theorems for filtered D -modules and for multiplier ideals*,
Int. Math. Res. Not. (published online); DOI: 10.1093/imrn/rny032.
(with M. Saito and J. Schürmann)
- (42) *Twisted Alexander invariants of complex hypersurface complements*,
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(with K. Wong)
- (43) *Motivic zeta functions and infinite cyclic covers*,
in “Local and Global Methods in Algebraic Geometry”, **Contemp. Math.** 712 (2018), in print.
(with M. Gonzalez Villa and A. Libgober)

Preprints

- (44) *Plethysm and cohomology representations of external and symmetric products*,
arXiv:1602.06546.
(with J. Schürmann)
- (45) *Spectral Hirzebruch-Milnor classes of singular hypersurfaces*,
arXiv:1606.02218.
(with M. Saito and J. Schürmann)
- (46) *Topology of subvarieties of complex semi-abelian varieties*,
arXiv:1706.07491.
(with Y. Liu and B. Wang)
- (47) *Generic vanishing for semi-abelian varieties and integral Alexander modules*,
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(with Y. Liu and B. Wang)
- (48) *Mellin transformation, propagation, and abelian duality spaces*,
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(with Y. Liu and B. Wang)
- (49) *On the signed Euler characteristic property for subvarieties of abelian varieties*,
arXiv:1801.03599.
(with E. Elduque and C. Geske)
- (50) *Homological congruence formulae for characteristic classes of singular varieties*,
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(with S. Yokura)

- (51) *Perverse sheaves on semi-abelian varieties*,
arXiv:1804.05014.
(with Y. Liu and B. Wang)

Books Edited

- (52) *Topology of Stratified Spaces*,
MSRI Publications 58, Cambridge University Press, New York, 2011; ISBN: 9780521191678.
(with G. Friedman, E. Hunsiker and A. Libgober)
- (53) *Proceedings of the International Conference on Singularity Theory and Applications (Hefei, China, July 25-31, 2011)*.
Journal of Singularities, vol 5 (2012), ISSN: 1949-2006.