

Antonio Montero

Publication list

Last update: October 22, 2023.

Faculty of Mathematics and Physics
University of Ljubljana
Jadranska 19, 1000 Ljubljana, Slovenia
✉ antonio.montero@fmf.uni-lj.si
🌐 anteromontonio.github.io
🐦 AnteroMontonio
📱 anteromontonio
🆔 0000-0002-3293-8517
📄 GEJHkg0AAAAJ

Publications

Published/accepted research articles

- [1] I. Hubard, E. Mochán, and A. Montero. “Voltage Operations on Maniplexes, Polytopes and Maps”. en. In: *Combinatorica* (May 2023). DOI: 10.1007/s00493-023-00018-7.
- [2] J. Collins and A. Montero. “Equivelar Toroids with Few Flag-Orbits”. en. In: *Discrete & Computational Geometry* 65.2 (Jan. 2021), pp. 305–330. DOI: 10.1007/s00454-020-00230-y.
- [3] A. Montero. “On the Schläfli symbol of chiral extensions of polytopes”. en. In: *Discrete Mathematics* 344.11 (Nov. 2021), p. 112507. DOI: 10.1016/j.disc.2021.112507.
- [4] A. Montero and A. I. Weiss. “Locally spherical hypertopes from generalised cubes”. In: *Art Discrete Appl. Math.* 4.3 (2021), Paper No. 3.07, 12. DOI: 10.26493/2590-9770.1354.b40.
- [5] A. Montero and A. I. Weiss. “Proper locally spherical hypertopes of hyperbolic type”. en. In: *Journal of Algebraic Combinatorics* (Oct. 2021). DOI: 10.1007/s10801-021-01054-6.
- [6] A. Montero. “Regular polyhedra in the 3-torus”. In: *Advances in Geometry* 18.4 (2018), pp. 431–450. DOI: 10.1515/advgeom-2018-0017.

Ongoing research articles

- [7] G. Cunningham, E. Mochán, and A. Montero. “Cayley extensions of maniplexes”. Under review.
- [8] I. Hubard, E. Mochán, and A. Montero. “More on voltage operations on maniplexes”. In preparation, 50%.
- [9] A. Montero, D. Pellicer, and M. Toledo. “Chiral extensions of regular toroids”. In preparation, 70%.
- [10] A. Montero and P. Potočnik. “Vertex transitive graphs with small minimal degree”. In preparation, 80%.

Outreach articles

- [11] A. Montero. “Simetrías de polígonos, poliedros y otras policosas (Symmetries of polygons, polyhedra and other poly-things)”. In: *BUM* 10.62 (2016), p. 5.

- [12] A. Montero. “Simetrías: Las matemáticas detrás de la belleza (Symmetry: the mathematics behind beauty)”. In: *Saber Más* 4.24 (2016), pp. 21–23.

Theses

- [13] A. Montero. “Chiral extensions of toroids”. Ph. D. Thesis. UNAM-UMSNH, 2019.
- [14] A. Montero. “Realizaciones regulares de poliedros en el 3-toro (Realizations of regular polyhedra in the 3-torus)”. Master’s thesis. UNAM-UMSNH, 2015.
- [15] A. Montero. “Poliedros regulares en el 3-toro (Regular polyhedra in the 3-torus)”. Undergraduate thesis. UMSNH, 2013.