

# MODEL THEORY IN GEOMETRY AND ARITHMETIC

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- [1] E. BOUSCAREN (ed.), *Model theory and algebraic geometry: an introduction to E. Hrushovski's proof of the geometric Mordell–Lang conjecture*, Lecture Notes in Mathematics **1696**, Springer, Berlin, 1998, ISBN 3-540-64863-1. MR 1678586. Zbl 0920.03046. doi: 10.1007/978-3-540-68521-0.
- [2] Z. CHATZIDAKIS, D. MACPHERSON, A. PILLAY, and A. WILKIE (eds.), *Model theory with applications to algebra and analysis, Vol. 1*, London Mathematical Society Lecture Note Series **349**, Cambridge University Press, Cambridge, 2008, ISBN 978-0-521-69484-1. MR 2446304. Zbl 1144.03004. doi: 10.1017/CBO9780511735226.
- [3] Z. CHATZIDAKIS, D. MACPHERSON, A. PILLAY, and A. WILKIE (eds.), *Model theory with applications to algebra and analysis, Vol. 2*, London Mathematical Society Lecture Note Series **350**, Cambridge University Press, Cambridge, 2008, ISBN 978-0-521-70908-8. MR 2446305. Zbl 1152.03006. doi: 10.1017/CBO9780511735219.
- [4] Z. CHATZIDAKIS, D. MARKER, A. MARTIN-PIZARRO, R. MOOSA, and S. STARCHENKO (eds.), *Recent developments in model theory* (Oléron, 2011), Notre Dame J. Formal Logic **54**:3–4, Duke University Press, Durham, NC, 2013. Available at <http://projecteuclid.org/euclid.ndjfl1/1376053765>.
- [5] R. CLUCKERS, J. NICAISE, and J. SEBAG (eds.), *Motivic integration and its interactions with model theory and non-Archimedean geometry, Vol. 1*, London Mathematical Society Lecture Note Series **383**, Cambridge University Press, Cambridge, 2011, ISBN 978-0-521-14976-1. MR 2905860. Zbl 1241.14001. doi: 10.1017/CBO9780511667534.
- [6] R. CLUCKERS, J. NICAISE, and J. SEBAG (eds.), *Motivic integration and its interactions with model theory and non-Archimedean geometry, Vol. 2*, London Mathematical Society Lecture Note Series **384**, Cambridge University Press, Cambridge, 2011, ISBN 978-1-107-64881-4. MR 2905861. Zbl 1230.14004. doi: 10.1017/CBO9780511984433.
- [7] D. HASKELL, A. PILLAY, and C. STEINHORN (eds.), *Model theory, algebra, and geometry*, Mathematical Sciences Research Institute Publications **39**, Cambridge University Press, Cambridge, 2000, ISBN 0-521-78068-3. MR 1773699. Zbl 0945.00018. Available at <http://library.msri.org/books/Book39>.
- [8] L. VAN DEN DRIES, *Tame topology and o-minimal structures*, London Mathematical Society Lecture Note Series **248**, Cambridge University Press, Cambridge, 1998, ISBN 0-521-59838-9. MR 1633348. Zbl 0953.03045. doi: 10.1017/CBO9780511525919.
- [9] U. ZANNIER, *Some problems of unlikely intersections in arithmetic and geometry*, Annals of Mathematics Studies **181**, Princeton University Press, Princeton, NJ, 2012, ISBN 978-0-691-15371-1. MR 2918151. Zbl 1246.14003. Available at <http://press.princeton.edu/titles/9767.html>.
- [10] B. ZILBER, *Zariski geometries: geometry from the logician's point of view*, London Mathematical Society Lecture Note Series **360**, Cambridge University Press, Cambridge, 2010, ISBN 978-0-521-73560-5. MR 2606195. Zbl 1190.03034. doi: 10.1017/CBO9781139107044.

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Bibliography by Jonathan Pila.