

forkinganddividing

REFERENCES

- [1] H. Adler, *A geometric introduction to forking and thorn-forking*, J. Math. Log. **9** (2009), no. 1, 1–20.
- [2] E. Alouf and C. d’Elbée, *A new dp-minimal expansion of the integers*, J. Symb. Log. **84** (2019), no. 2, 632–663.
- [3] M. Aschenbrenner, A. Dolich, D. Haskell, D. Macpherson, and S. Starchenko, *Vapnik-Chervonenkis density in some theories without the independence property, II*, Notre Dame J. Form. Log. **54** (2013), no. 3-4, 311–363.
- [4] M. Aschenbrenner, L. van den Dries, and J. van der Hoeven, *Asymptotic differential algebra and model theory of transseries*, Annals of Mathematics Studies, vol. 195, Princeton University Press, Princeton, NJ, 2017.
- [5] J. T. Baldwin, *Fundamentals of stability theory*, Perspectives in Mathematical Logic, Springer-Verlag, Berlin, 1988.
- [6] S. Barbina and E. Casanovas, *Model theory of Steiner triple systems*, J. Math. Log. **20** (2020), no. 2, 2050010, 26.
- [7] A. Baudisch, *On superstable groups*, J. London Math. Soc. (2) **42** (1990), no. 3, 452–464.
- [8] ———, *A Fraïssé limit of nilpotent groups of finite exponent*, Bull. London Math. Soc. **33** (2001), no. 5, 513–519.
- [9] ———, *More Fraïssé limits of nilpotent groups of finite exponent*, Bull. London Math. Soc. **36** (2004), no. 5, 613–622.
- [10] ———, *Neostability-properties of Fraïssé limits of 2-nilpotent groups of exponent $p > 2$* , Arch. Math. Logic **55** (2016), no. 3-4, 397–403.
- [11] A. Baudisch and A. Pillay, *A free pseudospace*, J. Symbolic Logic **65** (2000), no. 1, 443–460.
- [12] A. Bès, *A survey of arithmetical definability*, Bull. Belg. Math. Soc. Simon Stevin (2001), no. suppl., 1–54, A tribute to Maurice Boffa.
- [13] N. Bhardwaj and C.-M. Tran, *The additive groups of \mathbb{Z} and \mathbb{Q} with predicates for being square-free*, J. Symb. Log. **86** (2021), no. 4, 1324–1349.
- [14] E. Casanovas, *NIP formulas and theories*, Model Theory Seminar notes, <http://www.ub.edu/modeltheory/documentos/nip.pdf>, 2010.
- [15] E. Casanovas and F. O. Wagner, *The free roots of the complete graph*, Proc. Amer. Math. Soc. **132** (2004), no. 5, 1543–1548 (electronic).
- [16] Z. Chatzidakis, *Simplicity and independence for pseudo-algebraically closed fields*, Models and computability (Leeds, 1997), London Math. Soc. Lecture Note Ser., vol. 259, Cambridge Univ. Press, Cambridge, 1999, pp. 41–61.

- [17] ———, *Properties of forking in ω -free pseudo-algebraically closed fields*, J. Symbolic Logic **67** (2002), no. 3, 957–996.
- [18] ———, *Independence in (unbounded) PAC fields, and imaginaries*, Around Classification Theory, Leeds, <http://www.logique.jussieu.fr/~zoe/papiers/Leeds08.pdf>, 2008.
- [19] Z. Chatzidakis and A. Pillay, *Generic structures and simple theories*, Ann. Pure Appl. Logic **95** (1998), no. 1-3, 71–92.
- [20] G. Cherlin and S. Shelah, *Superstable fields and groups*, Ann. Math. Logic **18** (1980), no. 3, 227–270.
- [21] G. Cherlin, S. Shelah, and N. Shi, *Universal graphs with forbidden subgraphs and algebraic closure*, Adv. in Appl. Math. **22** (1999), no. 4, 454–491.
- [22] G. Cherlin and N. Shi, *Graphs omitting a finite set of cycles*, J. Graph Theory **21** (1996), no. 3, 351–355.
- [23] A. Chernikov, *Theories without the tree property of the second kind*, Ann. Pure Appl. Logic **165** (2014), no. 2, 695–723.
- [24] A. Chernikov and M. Hils, *Valued difference fields and NTP_2* , Israel J. Math. **204** (2014), no. 1, 299–327.
- [25] A. Chernikov, E. Hrushovski, A. Kruckman, K. Krupiński, S. Moconja, A. Pillay, and N. Ramsey, *Invariant measures in simple and in small theories*, J. Math. Log. **23** (2023), no. 2, Paper No. 2250025, 37.
- [26] A. Chernikov and I. Kaplan, *Forking and dividing in NTP_2 theories*, J. Symbolic Logic **77** (2012), no. 1, 1–20.
- [27] A. Chernikov and N. Ramsey, *On model-theoretic tree properties*, J. Math. Log. **16** (2016), no. 2, 1650009, 41.
- [28] G. Conant, *Forking and dividing in Henson graphs*, Notre Dame J. Form. Log. **58** (2017), no. 4, 555–566.
- [29] ———, *Multiplicative structure in stable expansions of the group of integers*, Illinois J. Math. **62** (2018), no. 1-4, 341–364.
- [30] G. Conant and A. Kruckman, *Independence in generic incidence structures*, J. Symb. Log. **84** (2019), no. 2, 750–780.
- [31] G. Conant and A. Pillay, *Stable groups and expansions of $(\mathbb{Z}, +, 0)$* , Fund. Math. **242** (2018), no. 3, 267–279.
- [32] G. Conant and C. Terry, *Model theoretic properties of the Urysohn sphere*, Ann. Pure Appl. Logic **167** (2016), no. 1, 49–72.
- [33] Gabriel Conant, Christian d’Elbée, Yatir Halevi, Léo Jimenez, and Silvain Rideau-Kikuchi, *Enriching a predicate and tame expansions of the integers*, J. Math. Log. **25** (2025), no. 1, Paper No. 2450011.
- [34] C. d’Elbée, *Generic expansions by a reduct*, J. Math. Log. **21** (2021), no. 3, Paper No. 2150016, 44.
- [35] C. d’Elbée, I. Müller, N. Ramsey, and D. Siniora, *Model-theoretic properties of nilpotent groups and Lie algebras*, J. Algebra **662** (2025), 640–701.

- [36] V. Disarlo, T. Koberda, and J. de la Nuez González, *The model theory of the curve graph*, arXiv:2008.10490, 2020.
- [37] A. Dolich, *Forking and independence in o-minimal theories*, J. Symbolic Logic **69** (2004), no. 1, 215–240.
- [38] A. Dolich and J. Goodrick, *Strong theories of ordered Abelian groups*, Fund. Math. **236** (2017), no. 3, 269–296.
- [39] A. Dolich, J. Goodrick, and D. Lippel, *Dp-minimality: basic facts and examples*, Notre Dame J. Form. Log. **52** (2011), no. 3, 267–288.
- [40] L. van den Dries, *Tame topology and o-minimal structures*, London Mathematical Society Lecture Note Series, vol. 248, Cambridge University Press, Cambridge, 1998.
- [41] M. Džamonja and S. Shelah, *On \triangleleft^* -maximality*, Ann. Pure Appl. Logic **125** (2004), no. 1-3, 119–158.
- [42] D. M. Evans and M. W. H. Wong, *Some remarks on generic structures*, J. Symbolic Logic **74** (2009), no. 4, 1143–1154.
- [43] N. Granger, *Stability, simplicity, and the model theory of bilinear forms*, Ph.D. thesis, University of Manchester, www.maths.manchester.ac.uk/~mprest/NICKTHESIS.ps, 1999.
- [44] P. Hall, *Some constructions for locally finite groups*, J. London Math. Soc. **34** (1959), 305–319.
- [45] G. Harrison-Shermoen, *Independence relations in theories with the tree property*, Ph.D. thesis, UC Berkeley, 2013.
- [46] B. Hart, *Stability theory and its variants*, Model theory, algebra, and geometry, Math. Sci. Res. Inst. Publ., vol. 39, Cambridge Univ. Press, Cambridge, 2000, pp. 131–149.
- [47] C. W. Henson, *A family of countable homogeneous graphs*, Pacific J. Math. **38** (1971), 69–83.
- [48] ———, *Countable homogeneous relational structures and \aleph_0 -categorical theories*, J. Symbolic Logic **37** (1972), 494–500.
- [49] H. Herre, A. H. Mekler, and K. W. Smith, *Superstable graphs*, Fund. Math. **118** (1983), no. 2, 75–79.
- [50] P. Hieronymi and T. Nell, *Distal and non-distal pairs*, J. Symb. Log. **82** (2017), no. 1, 375–383.
- [51] W. Hodges, *Model theory*, Encyclopedia of Mathematics and its Applications, vol. 42, Cambridge University Press, Cambridge, 1993.
- [52] E. Hrushovski, *A new strongly minimal set*, Ann. Pure Appl. Logic **62** (1993), no. 2, 147–166, Stability in model theory, III (Trento, 1991).
- [53] ———, *Pseudo-finite fields and related structures*, Model theory and applications, Quad. Mat., vol. 11, Aracne, Rome, 2002, pp. 151–212.
- [54] A. A. Ivanov, *The structure of superflat graphs*, Fund. Math. **143** (1993), no. 2, 107–117.
- [55] Will Johnson, *The canonical topology on dp-minimal fields*, J. Math. Log. **18** (2018), no. 2, 1850007, 23.
- [56] I. Kaplan and N. Ramsey, *On Kim-independence*, J. Eur. Math. Soc. (JEMS) **22** (2020), no. 5, 1423–1474.

- [57] ———, *Transitivity of Kim-independence*, Adv. Math. **379** (2021), Paper No. 107573, 29.
- [58] I. Kaplan, N. Ramsey, and S. Shelah, *Local character of Kim-independence*, Proc. Amer. Math. Soc. **147** (2019), no. 4, 1719–1732.
- [59] I. Kaplan and S. Shelah, *Decidability and classification of the theory of integers with primes*, J. Symb. Log. **82** (2017), no. 3, 1041–1050.
- [60] B. Kim, *Simplicity, and stability in there*, J. Symbolic Logic **66** (2001), no. 2, 822–836.
- [61] B. Kim and H. J. Kim, *Notions around tree property 1*, Ann. Pure Appl. Logic **162** (2011), no. 9, 698–709.
- [62] B. Kim and A. Pillay, *Simple theories*, Ann. Pure Appl. Logic **88** (1997), no. 2-3, 149–164, Joint AILA-KGS Model Theory Meeting (Florence, 1995).
- [63] M. Kojman and S. Shelah, *Nonexistence of universal orders in many cardinals*, J. Symbolic Logic **57** (1992), no. 3, 875–891.
- [64] A. Kruckman and N. Ramsey, *Generic expansion and Skolemization in NSOP₁ theories*, Ann. Pure Appl. Logic **169** (2018), no. 8, 755–774.
- [65] M. Malliaris and S. Shelah, *Cofinality spectrum theorems in model theory, set theory, and general topology*, J. Amer. Math. Soc. **29** (2016), no. 1, 237–297.
- [66] D. Marker, *Model theory*, Graduate Texts in Mathematics, vol. 217, Springer-Verlag, New York, 2002.
- [67] D. Marker, M. Messmer, and A. Pillay, *Model theory of fields*, second ed., Lecture Notes in Logic, vol. 5, Association for Symbolic Logic, La Jolla, CA, 2006.
- [68] A. Medvedev, *$\mathbb{Q}ACFA$* , arXiv:1508.06007, 2015.
- [69] J. Melleray, *Some geometric and dynamical properties of the Urysohn space*, Topology Appl. **155** (2008), no. 14, 1531–1560.
- [70] C. Milliet, *Definable envelopes in groups having a simple theory*, J. Algebra **492** (2017), 298–323.
- [71] Z. Mohammadi Khangheshlaghi and K. Tent, *On the model theory of the Farey graph*, arXiv:2503.02121, 2025.
- [72] S. Montenegro, *Pseudo real closed fields, pseudo p -adically closed fields and NTP₂*, Ann. Pure Appl. Logic **168** (2017), no. 1, 191–232.
- [73] S. Mutchnik, *On NSOP₂ theories*, arXiv:2206.08512, 2022.
- [74] A. Onshuus and A. Usvyatsov, *On dp -minimality, strong dependence and weight*, J. Symbolic Logic **76** (2011), no. 3, 737–758.
- [75] D. Palacín and R. Sklinos, *On superstable expansions of free Abelian groups*, Notre Dame J. Form. Log. **59** (2018), no. 2, 157–169.
- [76] R. Patel, *A family of countably universal graphs without SOP₄*, preprint, 2006.
- [77] A. Pillay and C. Steinhorn, *Definable sets in ordered structures. I*, Trans. Amer. Math. Soc. **295** (1986), no. 2, 565–592.

- [78] K. Podewski and M. Ziegler, *Stable graphs*, Fund. Math. **100** (1978), no. 2, 101–107.
- [79] B. Poizat, *A course in model theory*, Universitext, Springer-Verlag, New York, 2000, An introduction to contemporary mathematical logic, Translated from the French by Moses Klein and revised by the author.
- [80] ———, *Supergénérique*, J. Algebra **404** (2014), 240–270, À la mémoire d’Éric Jaligot. [In memoriam Éric Jaligot].
- [81] T. Rzepecki, *Inner ultrahomogeneous groups*, arXiv:2405.19640, 2024.
- [82] Z. Sela, *Diophantine geometry over groups VIII: Stability*, Ann. of Math. (2) **177** (2013), no. 3, 787–868.
- [83] S. Shelah, *Differentially closed fields*, Israel J. Math. **16** (1973), 314–328.
- [84] ———, *Classification theory and the number of nonisomorphic models*, second ed., Studies in Logic and the Foundations of Mathematics, vol. 92, North-Holland Publishing Co., Amsterdam, 1990.
- [85] ———, *Toward classifying unstable theories*, Ann. Pure Appl. Logic **80** (1996), no. 3, 229–255.
- [86] S. Shelah and A. Usvyatsov, *More on SOP₁ and SOP₂*, Ann. Pure Appl. Logic **155** (2008), no. 1, 16–31.
- [87] P. Simon, *Distal and non-distal NIP theories*, Ann. Pure Appl. Logic **164** (2013), no. 3, 294–318.
- [88] ———, *A guide to NIP theories*, Lecture Notes in Logic, vol. 44, Association for Symbolic Logic, Chicago, IL; Cambridge Scientific Publishers, Cambridge, 2015.
- [89] K. W. Smith, *Stability and categoricity of lattices*, Canadian J. Math. **33** (1981), no. 6, 1380–1419.
- [90] K. Tent and M. Ziegler, *A course in model theory*, Lecture Notes in Logic, vol. 40, Association for Symbolic Logic, La Jolla, CA, 2012.
- [91] F. O. Wagner, *Simple theories*, Mathematics and its Applications, vol. 503, Kluwer Academic Publishers, Dordrecht, 2000.
- [92] A. J. Wilkie, *Model completeness results for expansions of the ordered field of real numbers by restricted Pfaffian functions and the exponential function*, J. Amer. Math. Soc. **9** (1996), no. 4, 1051–1094.
- [93] C. Wood, *Notes on the stability of separably closed fields*, J. Symbolic Logic **44** (1979), no. 3, 412–416.
- [94] M. Ziegler, *An exposition of Hrushovski’s new strongly minimal set*, Ann. Pure Appl. Logic **164** (2013), no. 12, 1507–1519.