

Publications of A. Pillay, in chronological order

(a) Papers

- [1] *Number of countable models*, Journal of Symbolic Logic, **43** (1978), 492 – 496
- [2] *Number of models of theories with many types*, Théories Stables, 1978/79.
- [3] *Theories with exactly three countable models and theories with very algebraic prime models*, Journal of Symbolic Logic, **45** (1980), 302 – 310.
- [4] *ω -categoricity in regular subsets of $\mathcal{L}_{\omega_1\omega}$* , Journal of the London Mathematical Society, **22** (1980), 193 – 196.
- [5] *Instability and theories with few models*, Proceedings of the American Mathematical Society, **80** (1980), 461 – 468.
- [6] *Prime models over subsets*, in théories Stables 1978/79, ed. B.Poizat, Univ. Paris VI–IHP 1981.
- [7] *A class of ω -categorical theories*, Zeitschrift für Logik und Grundlagen der Mathematik, **27** (1981), 411 – 418.
- [8] *Finitely generated models of ω -stable theories*, Proc. of Model Theory Meeting at Brussels and Mons 1980, Bull. Soc. Math. de Belge, **33** (1981), 83 – 91.
- [9] *Models of Peano arithmetic*, Model Theory and Arithmetic, Berline, McAlloon & Ressayre, Lecture Notes in Mathematics 890, Springer–Verlag, 1981, 1 – 12.
- [10] *Cuts in models of arithmetic*, Model Theory and Arithmetic (*as above*), 263 – 269.
- [11] *Well-definable types over subsets*, Théories Stables, 1980/81.
- [12] *Dimension theory and homogeneity for elementary extension of a model*. J.Symb.Logic, **47** (1982), 147 – 160.
- [13] *Weakly homogeneous models*, Proceedings of the A.M.S., **86** (1982), 126 – 132.
- [14] *The models of a non-multidimensional ω -stable theory*, in Théories Stables 1980/81, ed. B. Poizat, Univ. Paris VI–IHP 1983.
- [15] *A note on tight stable theories*, Arch. Math. Logik (1983), 147 – 152.
- [16] *A note on finitely generated models*, J. Symb. Logic, **48** (1983), 163 – 166.
- [17] (with M. Prest) *Forking and pushouts in modules*, Journal of London Mathematical Society, **46** (1983), 365 – 384.
- [18] *\aleph_0 -categoricity over a predicate*, Notre Dame Journal of Formal Logic,

- 24** (1983), 527 – 536.
- [19] *Countable models of stable theories*, Proceedings of the A.M.S., **89** (1983), 666 – 672.
- [20] (with C. Steinhorn) *Definable sets in ordered structures*, Bulletin of the A.M.S., **11** (1984), 159 – 162.
- [21] *Countable modules*, Fundamentae Mathematicae CXXI (1984), 125 – 132.
- [22] *Regular types in nonmultidimensional ω -stable theories*, J. Symb. Logic, **49** (1984), 880 – 891.
- [23] (with G. Srouf) *Closed sets and chain conditions in stable theories*, J. Symb. Logic, **49** (1984), 1350 – 1362.
- [24] (with S. Shelah) *Classification theory over a predicate I* , Notre Dame Journal of Formal Logic, **25** (1985), 361 – 376.
- [25] (with C. Steinhorn) *A note on non-multidimensional superstable theories*, J. Symb. Logic, **50** (1985), 1020 – 1024.
- [26] *Forking, normalization and canonical bases*, Annals of Pure and Applied Logic, **32** (1986), 61 – 81.
- [27] (with C. Steinhorn) *Definable sets in ordered structures I*, Transactions of the A.M.S., **295** (1986), 565 – 592.
- [28] (with L.A.S. Kirby) *Weakly definable types*, Transactions of the A.M.S., **295** (1986), 547 – 563.
- [29] *Superstable groups of finite rank without pseudoplanes*, Annals of Pure and Applied Logic, **306** (1986), 95 – 101.
- [30] (with J. Knight & C. Steinhorn) *Definable sets in ordered structures II*, Transactions of the A.M.S., **295** (1986), 593 – 605.
- [31] *Some remarks on definable equivalence relations in o -minimal structures*, J. Symb. Logic, **51** (1986), 709 – 714.
- [32] (with C. Steinhorn) *On Dedekind complete o -minimal structures*, J. Symb. Logic, **52** (1987), 150 – 157.
- [33] (with C. Steinhorn) *Discrete o -minimal structures*, Annals of Pure and Applied Logic, **34** (1987), 275 – 289.
- [34] (with M. Prest) *Modules and Stability Theory*, Transactions of the A.M.S., **300** (1987), 661 – 662.
- [35] (with B. Poizat) *Pas d'imaginaires dans l'infini*, J. Symb. Logic, **53** (1987), 400 – 403.
- [36] (with E. Hrushovski) *Weakly normal groups*, Logic Colloquium '85, North Holland (1987), 233 – 244.

- [37] *First order topological structures and theories*, J. Symb. Logic, **52** (1987), 763 – 778.
- [38] *Simple superstable theories*, Classification Theory: Chicago 1985, Springer-Verlag, New York (1987), 246 – 163.
- [39] (with C. Steinhorn) *Definable sets in ordered structures III*, Transactions of the A.M.S., **309**, Number 2 (1988), 469 – 476.
- [40] *Sheaves of continuous definable functions*, J. Symb. Logic, **53**, No.4 (1988), 1165 – 1169.
- [41] *On groups and fields definable in o-minimal structures*, Journal of Pure and Applied Algebra, **53** (1988), 239 – 255.
- [42] *Stable theories, pseudoplanes and the number of countable models*, Annals of Pure and Applied Logic, **43** (1989), 147 – 160.
- [43] *An application of model theory to real and p-adic algebraic groups*, Journal of Algebra, **126**, No.1 (1989), 139 – 146.
- [44] *On fields definable in Q_p* , Archive for Mathematical Logic, **29** (1989), 1 – 7.
- [45] *A note on subgroups of the automorphism group of a saturated model, and regular types*, J. Symb. Logic, **54**, No.3 (1989), 858 – 865.
- [46] (with J. Baldwin) *Semisimple stable and superstable groups*, Annals of Pure and Applied Logic, **45** (1989), 105 – 127.
- [47] (with P. Scowcroft & C. Steinhorn) *Between groups and rings*, Rocky Mountain Journal of Mathematics, **19**, No.3 (1989), 871 – 885.
- [48] (with A. Nesin) *Open subgroups of $GL_2(Q_p)$* , Proceedings of Easter Meeting in DDR, (1989).
- [49] *Differentially algebraic group chunks*, J. Symb.Logic, **55**, No.3 (1990), 1138 – 1142.
- [50] (with D. Marker) *Reducts of $(C, +, \cdot)$ which contain $+$* , J. Symb. Logic, **55**, No. 3 (1990).
- [51] (with P. Rothmaler) *Non-totally transcendental unidimensional theories*, Archives Math. Logic, **30**(1990), 93 – 111.
- [52] (with D. Evans & B. Poizat) *Groups in groups*, Algebra i Logika, No.3 (1990), 368 – 378.
- [53] (with A. Nesin) *Some model theory of compact Lie groups*, Transactions of the A.M.S., **326**, No.1 (1991), 453 – 463.
- [54] (with V. Razenj & A. Nesin) *Groups of dimension two and three over o-minimal structures*, Annals of Pure and Applied Logic, **53** (1991), 279 – 296.

- [55] *Some remarks on modular regular types*, J. Symb. Logic, **56**, no. 1 (1991), 1003 – 1011.
- [56] (with D. Marker & K. Peterzil) *Additive reducts of real closed fields*, J. Symb. Logic, **57**, No. 1 (1992), 109 – 117.
- [57] (with Z. Sokolovic) *Superstable differential fields*, J. Symb. Logic, **57**, No.1 (1992), 97 – 108.
- [58] *Countable models of 1-based theories*, Arch. Math. Logic, **31** (1992), 163 – 170.
- [59] (with M.C. Laskowski & Ph. Rothmaler) *Tiny models of categorical theories*, Archive Math. Logic, **31** (1992), 385 – 396.
- [60] (with B. Herwig, J. Loveys, P. Tanovic & F. Wagner) *Stable theories with no dense forking chains*, Arch. Math. Logic, **31** (1992), 297 – 304.
- [61] (with L.F. Low) *Superstable theories with few countable models*, Arch. Math. Logic, **31**, (1992), 457 – 465.
- [62] (with Z. Sokolovic) *A remark on differential algebraic groups*, Communications in Algebra, **20(10)** (1992).
- [63] (with B. Hart & S. Starchenko) *Triviality, NDOP and stable varieties*, Annals of Pure & Applied Logic, 1993.
- [64] (with Ph. Rothmaler) *Uniqueness of maximal nonmodular submodules*, Annals of Pure and Applied Logic, 1993.
- [65] (with E. Hrushovski) *Groups definable in local fields and pseudofinite fields*, Israel Journal of Math., **85** (1994), 203 – 262.
- [66] *Remarks on nonmultidimensional superstable theories*, J. Symb. Logic, **59(1)**, (1994) 151 – 165.
- [67] (with A. Chowdhury) *Number of models of uncountable theories*, Journal of Symbolic Logic, **59(4)**, (1994), 1285 – 1300.
- [68] *Definability of types and pairs of O-minimal structures*, Journal of Symbolic Logic, **59(4)**, (1994), 1400 – 1409.
- [69] (with W.A. Hodges) *Cohomology of structures and some problems of Albrandt-Ziegler*, Journal of London Math Soc. **50(2)**, (1994), 1 – 16.
- [70] *Review of Zilber's "Uncountably categorical theories"*, Bulletin of American Math. Soc., **30(2)**, (1994).
- [71] (with D. Macpherson) *Primitive permutation groups of finite Morley rank*, Journal of London Math. Soc., **70(3)**, (1995), 481 – 504.
- [72] (with E. Hrushovski) *Definable subgroups of algebraic groups over finite fields*, J. reine angew. Math. **462**, (1995), 69 – 91.
- [73] (with B. Poizat) *Corps et Chirurgie*, Journal of Symbolic Logic, **60(2)**,

(1995), 528-533.

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[76] (with B. Hart & S. Starchenko) *1-based theories – the main gap for ω -models*, Archive for Math. Logic, **34**, (1995), 285-300.

[77] (with Y. Peterzil & M. Otero) *On groups and rings definable in ω -minimal expansions of real closed fields*, Journal of London Math. Soc.(1995).

[78] *Model theory, Differential algebra, and Number theory*, Proceedings of ICM 94, Birkhauser Verlag, 1995.

[79] *Differential algebraic groups and the number of countable differentially closed fields*, *Model theory of Fields*, Lecture Notes in Logic 5, Springer-Verlag, 1996.

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[83] (with B. Kim) *Simple theories*, Annals of Pure and Applied Logic, **88**, (1997) 149–164.

[84] (with D. Marker) *Differential Galois Theory III: some inverse problems*, Illinois Journal of Mathematics, **3**, (1997), 453–461.

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[89] (with K. Ikeda and A. Tsuboi) *On theories having three countable models*, Math. Logic Quarterly, 1998.

[90] *Definability and definable groups in simple theories*, Journal of Symbolic Logic, **63**, (1998), 788–796.

[91] *Model Theory of algebraically closed fields*, in *Model theory and algebraic*

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- [92] *The model-theoretic content of Lang's conjecture*, in *Model theory and algebraic geometry*, as above.
- [93] *Differential Galois Theory I*, Illinois Journal of Math. **42**, (1998), 678–699.
- [94] (with Y. Peterzil and S. Starchenko) *Simple groups definable in O-minimal structures*, *Logic Colloquium '96*, Lecture Notes in Logic 12, Springer, 1998.
- [95] (with D. Pierce) *A note on the axioms for differentially closed fields of characteristic zero*, Journal of Algebra, **204**, (1998), 108–115.
- [96] (with Z. Chatzidakis) *Generic structures and simple theories*, Annals of Pure and Applied Logic, **95**, (1998), 71–92.
- [97] (with B. Kim) *From stability to simplicity*, Bulletin of Symbolic Logic, **4**, (1998), 17–36.
- [98] (with T. Scanlon and F.O. Wagner) *Supersimple fields and division rings*, Math. Research Letters, **5**, (1998), 473–483.
- [99] (with D. Lascar) *Forking and the fundamental order in simple theories*, Journal of Symbolic Logic, **64**, (1999), 1155–1158.
- [100] (with P. Kowalski) *Pro-algebraic and differential algebraic groups on affine spaces*, American Journal of Math., **122**, (2000), 213–222.
- [101] (with B. Hart and B. Kim) *Coordinatization and canonical bases in simple theories*, Journal of Symbolic Logic, **65**, (2000), 293–309.
- [102] *The geometry of forking and CM-triviality*, Journal of Symbolic Logic, **65**, (2000), 474–480.
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- [104] (with Y. Peterzil and S. Starchenko) *Simple algebraic and semialgebraic groups over real closed fields*, Transactions AMS, **352**, (2000), 4421–4450.
- [105] (with E. Hrushovski) *Effective bounds for number of transcendental points on subvarieties of semi-abelian varieties*, American Journal of Math., **122**, (2000), 439–450.
- [106] (with A. Baudisch) *A free pseudospace*, Journal of Symbolic Logic, **65**, (2000), 443–460.
- [107] (with H. Kikyo) *The definable multiplicity property and generic automorphisms*, Annals of Pure and Applied Logic, **106**, (2000), 263–273.
- [108] *Some model theory of compact complex spaces*, in *Hilbert's Tenth Problem*

- lem: relations with arithmetic and algebraic geometry*, Contemporary Mathematics, volume 270, AMS, 2000, 323-338.
- [109] *Model Theory*, Notices of AMS, **47**, number 11, December 2000.
- [110] *Model Theory and Tame Mathematics*, in *Opportunities for the Mathematical Sciences*, Proceedings of workshop in June 2000, Division of Math. Sciences, National Science Foundation, 2000.
- [111](with D. Lascar) *Hyperimaginaries and automorphism groups*, Journal of Symbolic Logic, **66**, (2001), 127-143.
- [112] *Forking in existentially closed structures*, in *Connections between Model Theory and Algebraic and Analytic Geometry*, edited by A. Macintyre, quaderni di matematica, volume 6, University of Naples, 2001.
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- [114] (with B. Kim) *Around stable forking*, Fundamenta Math., **170**, (2001), 107-118.
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- [116] (with P. Kowalski) *A note on groups definable in difference fields*, Proceedings AMS, **130**, (2001), 205-212.
- [117] (with S. Buss, A. Kechris, and R. Shore) *The prospects for mathematical logic in the twenty-first century*, Bulletin of Symbolic Logic, **7**, (2001), 169-196.
- [118] (with E. Casanovas, D. Lascar and M. Ziegler) *Galois groups of first order theories*, Journal of Mathematical Logic, **1**, (2001), 305-319.
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- [120] *Review of "A course in model theory" by B. Poizat*, Bulletin AMS, **39**, (2002), 87-94.
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- [122] (with T. Scanlon) *Compact complex manifolds with the DOP and other properties*, Journal of Symbolic Logic, **67**, (2002), 737-743.
- [123] (with Mark Schlatter) *Some results on permutation group isomorphism and categoricity*, Journal of Symbolic Logic, **67**, (2002), 910-914.
- [124] (with W.Y. Pong) *On Lascar rank and Morley rank of definable groups in differentially closed fields*, Journal of Symbolic Logic, **67**, (2002), 1189-1196.

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- [127] (with T. Scanlon) *Meromorphic groups*, *Transactions AMS*, **355** (2003), 3843-3859.
- [128] (with Itay Ben-Yaacov and Evgueni Vassiliev), *Lovely Pairs of Models*, *Annals of Pure and Applied Logic* 122(2003), 235-261.
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- [130] (with M. Ziegler) *Jet spaces of varieties over differential and difference fields*, *Selecta Mathematica, New Series*, 9 (2003), 579-599.
- [131] *Mordell-Lang conjecture for function fields in characteristic zero, revisited*, *Compositio Math.* 140(2004), 64-68.
- [132] (with A. Martin-Pizarro) *Elliptic and hyperelliptic curves over supersimple fields*, *Journal of London Math. Soc.*, 69 (2004), 1-13.
- [133] *Aspects of Geometric Model Theory*, *Logic Colloquium '99*, *Lecture Notes in Logic*, ASL, 2004.
- [134] (with M. Ziegler) *On a question of Herzog and Rothmaler*, *Journal of Symbolic Logic* 69 (2004), 478-481.
- [135] (with M. C. Laskowski), *Morley's Theorem for gross models*, *Proceedings of AMS* 132 (2004), 2733-2742.
- [136] *Algebraic D-groups and Differential Galois theory*, *Pacific J. Math.* 216 (2004), 343-360.
- [137] (with E. Vassiliev) *Imaginaries in beautiful pairs*, *Illinois Journal of Math.*, 48 (2004), 759-768.
- [138] *Type-definability, o-minimality, and compact Lie groups*, *J. Math. Logic*, 4 (2004), 147-162.
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- [140] (with A. Berarducci, M. Otero, and Y. Peterzil) *A descending chain condition for groups definable in o-minimal structures*, *Annals of Pure and Applied Logic*, 134 (2005), 303-314.
- [141] (with E. Vassiliev) *On lovely pairs and the $\exists y \in P$ quantifier*, *Notre Dame Journal of Formal Logic*, 46 (2005), 491-501,

- [142] (with P. Kowalski) *Quantifier elimination for algebraic D -groups*, Transactions AMS 358 (2006), 167-181.
- [143] *Remarks on algebraic D -varieties and the model theory of differential fields*, *Logic in Tehran*, Lecture Notes in Logic, ASL, 2006.
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- [145] (with Y. Peterzil) *Generic sets in definably compact groups*, Fund. Math. 193 (2007), 153-170.
- [146] (with P. Kowalski) *On algebraic σ -groups*, Transactions AMS 359 (2007), 1325-1337.
- [147] *On externally definable sets and a theorem of Shelah*, in Felgner Festschrift, Studies in Logic, College Publications, 2007.
- [148] *Imaginaries in pairs of algebraically closed fields*, Annals of Pure and Applied Logic 146 (2007), 13-20.
- [149] (with A. Onshuus), *Definable groups and compact p -adic Lie groups*, Journal LMS 78(2008), 233-247.
- [150] (with E. Hrushovski and Y. Peterzil) *Groups, measures and the NIP*, Journal AMS, 21 (2008), 563-595.
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- [153] (with R. Moosa and T. Scanlon) *Differential arcs and regular types in differential fields*, J. Reine und Angew. Math. 620 (2008), 35-54.
- [154] *On types of CB-rank 1 in simple theories*, Journal of the Inst. of Math. Jussieu 7 (2008), 895-899.
- [155] (with R. Moosa) *Model Theory and Kähler geometry*, in *Model Theory and Applications to Algebra and Analysis I*, LMS Lecture Notes 349, 2008, pp. 167-195.
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- [162] (with D. Bertrand) *A Lindemann-Weierstrass Theorem for semiabelian varieties over function fields*, Journal AMS 23 (2010), 491-533.
- [163] (with A. Berarducci and Y. Peterzil) *Group covers, o-minimality, and categoricity*, Confluentes Math., vol. 2, No. 4 (2010), 1-24.
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- [166] (with E. Hrushovski) *On NIP and invariant measures*, Journal of the European Math. Soc., 13 (2011) 1005-1061.
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- [171] (with C. Kestner) *Remarks on unimodularity*, Journal of Symbolic Logic, 26 (2011), 1453-1458.
- [171] (with E. Hrushovski and P. Simon) *Generically stable and smooth measures in NIP theories*, to appear in Transactions AMS.
- [173] (with R. Moosa) *On trivial and \aleph_0 -categorical strongly minimal Kähler manifolds*, Proceedings AMS, 140 (2012), 17851801.
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- [176] (with A. Conversano) *Connected components of definable groups and o-minimality I*, *Advances in Math.* 231 (2012) 605-623.
- [177] (with A. Conversano) *Connected components of definable groups and o-minimality II*, submitted.
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- [181] (with A. Conversano) *On Levi subgroups and the Levi decomposition for groups definable in o-minimal structures*, submitted.
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- [183] *Topological dynamics and definable groups*, to appear in *Journal of Symbolic Logic*.
- [184] (with E. Hrushovski and D. Palacin) *On the canonical base property*, to appear in *Selecta Math.*
- [185] (with J. Gismatullin and D. Penazzi) *Some model theory of $SL(2, R)$* , submitted.
- [186] (with J. Nagloo) *On the algebraic independence of generic Painlevé transcendents*, to be submitted.
- [187] (with R. Moosa) *A model-theoretic perspective on algebraic reductions of Hyperkähler manifolds*, submitted.
- [188] (with C. Perin, R. Sklinos, K. Tent) *On groups and fields interpretable in torsion-free hyperbolic groups*, submitted.
- [189] (with H. Adler and E. Casanovas) *Generic stability and stability*, submitted.

(b) **Books**

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