

Complete 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.
- [74] *The geometry of forking and groups of finite Morley rank*, The Journal of Symbolic Logic, **60(3)**, (1995).
- [75] *Definable sets in generic complex tori*, Annals of Pure and Applied Logic,

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- [76] (with B. Hart & S. Starchenko) *1-based theories – the main gap for a -models*, Archive for Math. Logic, **34**, (1995), 285-300.
 - [77] (with Y. Peterzil & M. Otero) *On groups and rings definable in o -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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 - [81] *Remarks on Galois cohomology and definability*, Journal of Symbolic Logic, **62**, (1997), 487-492.
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 - [84] (with D. Marker) *Differential Galois Theory III: some inverse problems*, Illinois Journal of Mathematics, **3**, (1997), 453–461.
 - [85] (with A. Tsuboi) *Amalgamations preserving ω -categoricity*, Journal of Symbolic Logic, **62**, (1997), 1070-1074.
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 - [89] (with K. Ikeda and A. Tsuboi) *On theories having three countable models*, Math. Logic Quarterly, 1998.
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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.
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- [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.
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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.
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- [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.

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- [131] *Mordell-Lang conjecture for function fields in characteristic zero, revisited*, Compositio Math. 140(2004), 64-68.
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- [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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- [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.
- [144] (with D. Polkowska) *On PAC and bounded substructures of stable structures*, Journal of Symbolic Logic, 71 (2006), 460-472.
- [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.
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(b) **Books**

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[4] *Geometric Stability Theory*, Oxford University Press, 1996.

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