References

[1] J.W.Addison, Separation principles in the hierarchies of classical and effective descriptive set theory, Fundamenta Mathematicae, 46(1959), 123-135. 10

[2] J.W.Addison, Some consequences of the axiom of constructibility, Fundamenta Mathematicae, 46(1957), 337-357. 71

[3] R.Baire, Sur la théorie des ensembles, Comptes Rendus Academie Science Paris, 129(1899), 946-949. 6

[4] R.Baire, Sur la représentation des fonctions discontinues (2me partie), Acta Mathematica, 32(1909), 97-176. 5

[5] Z.Balogh, There is a Q-set space in ZFC, Proceedings of the American Mathematical Society, 113(1991), 557-561. 17

[6] T.Bartoszynski, Combinatorial aspects of measure and category, Fundamenta Mathematicae, 127(1987), 225-239. 67

[7] T.Bartoszynski, On covering of real line by null sets, Pacific Journal of Mathematics, 131(1988),1-12. 66

[8] T.Bartoszynski, H.Judah, S.Shelah, The cofinality of cardinal invariants related to measure and category, Journal of Symbolic Logic, 54(1989), 719-726. 66

[9] T.Bartoszynski, H.Judah, On the cofinality of the smallest covering of the real line by meager sets, Journal of Symbolic Logic, 54(1989), 828-832. 66

[10] J.Barwise, **Admissible sets and structures**, Springer-Verlag, 1975. 92

[11] M.Bell, On the combinatorial principal P(c), Fundamenta Mathematicae, 114(1981), 149-157. 17

[12] R.H.Bing, W.W.Bledsoe, R.D.Mauldin, Sets generated by rectangles, Pacific J. Math., 51(1974, 27-36. 11

[13] C.Brezinski, **History of Continued Fractions and Padé Approximants**, Springer-Verlag, 1991. 6

[14] J.Burgess, Infinitary languages and descriptive set theory, PhD University of California, Berkeley, 1974. 107

[15] J.Burgess, Equivalences generated by families of Borel sets, Proceedings of the American Mathematical Society, 69(1978), 323-326. 110

[16] J.Burgess, Effective enumeration of classes in a Σ^1_1 equivalence relation, Indiana University Mathematics Journal, 28(1979), 353-364. 110

[17] C.C.Chang, H.J.Keisler, **Model Theory**, North Holland, 1973. 2

[18] F.van Engelen, A.Miller, J.Steel, Rigid Borel sets and better quasiorder theory, Contemporary Mathematics (American Mathematical Society), 65(1987), 199-222. 97

[19] L.Euler, De fractionibus continuis dissertatio, Comm. Acad. Sc. Imp. St. Pétersbourg, 9(1737), 98-137. 6

[20] F.van Engelen, K.Kunen, A.Miller, Two remarks about analytic sets, Lecture Notes in Mathematics, Springer-Verlag, 1401(1989), 68-72. 104

[21] P.Erdos, K.Kunen, R.Mauldin, Some additive properties of sets of real numbers, Fundamenta Mathematicae, 113(1981), 187-199. 97

[22] Q.Feng, Homogeneity for open partitions of pairs of reals, Transactions of the American Mathematical Society, 339(1993), 659-684. 106

[23] W.Fleissner, A.Miller, On Q-sets, Proceedings of the American Mathematical Society, 78(1980), 280-284. 17

[24] W.Fleissner, Current research on Q sets, in **Topology, Vol. I (Proc. Fourth Colloq., Budapest, 1978)**, Colloq. Math. Soc. Janos Bolyai, 23(1980), 413-431. 17

[25] W.Fleissner, Squares of Q sets, Fundamenta Mathematicae, 118(1983), 223-231. 17

[26] D.H.Fremlin, On the Baire order problem, Note of 29.4.82. 44

[27] D.H.Fremlin, **Consequences of Martin's Axiom**, Cambridge University Press, 1984. 17 67

[28] H.Friedman, PCA well-orderings of the line, Journal of Symbolic Logic, 39(1974), 79-80. 84

[29] S.Friedman, Steel Forcing and Barwise compactness, Annals of Mathematical Logic, 22(1982), 31-46. 25

[30] F.Galvin, A.Miller, γ-sets and other singular sets of real numbers, Topology and Its Applications, 17(1984), 145-155. 17 46

[31] R.O.Gandy, Proof of Mostowski's conjecture, Bulletin de L'Academie Polonaise des Science, 8 (1960), 571-575. 95

[32] K.Gödel, The consistency of the axiom of choice and of the generalized continuum hypothesis, Proceedings of the National Academy of Science, 24(1938), 556-557. 71

[33] L.Harrington, A powerless proof of a Theorem of Silver, handwritten note dated 11-76. 98

[34] L.Harrington, Theorem (A. Louveau), handwritten note undated, circa 1976. 120

[35] L.Harrington, Long projective well-orderings, Annals of Mathematical Logic, 12(1977), 1-24. 85 87

[36] L.Harrington, Analytic determinacy and $0^{\#}$, Journal of Symbolic Logic, 43(1978), 685-693. 25

[37] L.Harrington, R.Sami, Equivalence relations, projective and beyond, Logic Colloquium 78, ed Boffa et al, North Holland 1979, 247-263. 110

[38] L.Harrington and S.Shelah, Counting equivalence classes for co-κ-Souslin equivalence relations, in **Logic Colloquium 80**, North Holland, 1982, 147-152. 98 110

[39] L.Harrington, D.Marker, S.Shelah, Borel orderings, Transactions of the American Mathematical Society, 310(1988), 293-302. 103 106 110 117

[40] P.Hinman, **Recursion-Theoretic Hierarchies**, Springer-Verlag, 1978. 92

[41] G.Hjorth, Thin equivalence relations and effective decompositions, Journal of Symbolic Logic, 58(1993), 1153-1164. 110

[42] G.Hjorth, Universal Co-Analytic Sets, preprint 1994. 116

[43] T.Jech, **Set Theory**, Academic Press, 1978. 2 16 26 36 109

[44] R.B.Jensen, R.M.Solovay, Some applications of almost disjoint sets, in **Mathematical Logic and Foundations of Set Theory**, ed by Y.Bar Hillel, 1970, North Holland, 84-104. 16

[45] H.Judah, S.Shelah, Q-sets do not necessarily have strong measure zero, Proceedings of the American Mathematical Society, 102 (1988), 681-683. 17 50

[46] H.Judah, S.Shelah, Q-sets, Sierpiński sets, and rapid filters, Proceedings of the American Mathematical Society, 111(1991), 821-832. 17

[47] M.Kondô, Sur l'uniformisation des complémentaires analytiques et les ensembles projectifs de la seconde classe, Japan J. Math. 15(1939), 197-230. 78

[48] A. Kechris, Spector second order classes and reflection, in **Generalized recursion theory, II** , North Holland 1978, Studies Logic Foundations Math., 94(1978), 147-183. 117

[49] A.Kechris, On transfinite sequences of projective sets with an application to Σ_2^1 equivalence relations, in **Logic Colloquium '77** ed by Macintyre et al, North Holland, 1978, 155-160. 110

[50] A. Kechris, The perfect set theorem and definable wellorderings of the continuum, Journal of Symbolic Logic, 43(1978), 630-634. 84

[51] A.S.Kechris, D.A.Martin, Infinite games and effective descriptive set theory, in **Analytic sets**, ed by C.A.Rogers, Academic Press, 1980. 98

[52] A.S.Kechris, **Lectures on classical descriptive set theory**, to appear. 2 114

[53] S.Kleene, Hierarchies of number-theoretic predicates, Bulletin of the American Mathematical Society, 63(1955), 193-213. 90

[54] K.Kunen, **Set Theory** , North Holland, 1980. 2 16 19 34 36 109

[55] K. Kunen, A.Miller, Borel and projective sets from the point of view of compact sets, Mathematical Proceedings of the Cambridge Philosophical Society, 94(1983), 399-409. 49

[56] K.Kunen, Where MA first fails, Journal of Symbolic Logic, 53(1988), 429-433. 67

[57] K.Kuratowski, **Topology**, vol 1, Academic Press, 1966. 2 68

[58] K.Kuratowski, A.Mostowski, **Set theory, with an introduction to descriptive set theory**, North Holland, 1976. 2 81

[59] A.Landver, Singular σ-dense trees, Journal of Symbolic Logic, 57(1992), 1403-1416. 67

[60] A.Landver, Baire numbers, uncountable Cohen sets and perfect-set forcing, Journal of Symbolic Logic, 57(1992), 1086-1107. 67

[61] H.Lebesgue, Sur les fonctions représentables analytiquement, Journal de Mathématiques Pures et Appliqués, 1(1905), 139-216. 9 10

[62] A. Louveau, Relations d'equivalence dans les espaces polonais, Collection: General logic seminar, (Paris, 1982-83), 113-122, Publ. Math. Univ. Paris VII. 98

[63] A.Louveau, A separation theorem for Σ_1^1 sets, Transactions of the American Mathematical Society, 260(1980), 363-378. 111

[64] A.Louveau, J.Saint Raymond, Borel classes and closed games: Wadge-type and Hurewicz-type results, Transactions of the American Mathematical Society, 304(1987), 431-467. 111

[65] A. Louveau, Two results on Borel orders, Journal of Symbolic Logic, 54(1989), 865-874. 106

[66] A.Louveau, Classifying Borel Structures, in **Set Theory of the Continuum**, ed by Judah et al., Springer-Verlag, 1992, 103-112. 106

[67] N.Luzin, Sur un problème de M. Baire, Comptes Rendus Hebdomaddaires Seances Academie Science Paris, 158(1914), 1258-1261. 32

[68] P.Mahlo, Über Teilmengen des Kontinuums von dessen Machtigkeit, Sitzungsberichte der Sachsischen Akademie der Wissenschaften zu Leipsiz, Mathematisch-Naturwissenschaftliche Klasse 65, (1913), 283-315. 32

[69] R.Mansfield, The non-existence of Σ_2^1 well-ordering of the Baire space, Fundamenta Mathematicae, 86(1975), 279-282. 84

[70] R.Mansfield, Perfect subsets of definable sets of real numbers, Pacific Journal of Mathematics, 35(1970), 451-457. 76

[71] R.Mansfield, G.Weitkamp, **Recursive Aspects of Descriptive Set Theory**, Oxford University Press (1985). 98 120

[72] D.A.Martin, R.M.Solovay, Internal Cohen extensions, Annals of Mathematical Logic, 2(1970), 143-178. 16 34 82

[73] A.Miller, On the length of Borel hierarchies, Annals of Mathematical Logic, 16(1979), 233-267. 13 19 27 30 31 33 43 44 63

[74] A.Miller, On generating the category algebra and the Baire order problem, Bulletin de L'Academie Polonaise des Science, 27(1979), 751-755. 38

[75] A.Miller, Generic Souslin sets, Pacific Journal of Mathematics, 97(1981), 171-181.

[76] A.Miller, Some properties of measure and category, Transactions of the American Mathematical Society, 266(1981), 93-114. Corrections and additions to some properties of measure and category, Transactions of the American Mathematical Society, 271(1982), 347-348. 63

[77] A.Miller, The Baire category theorem and cardinals of countable cofinality, Journal of Symbolic Logic, 47(1982), 275-288. 64 66

[78] A.Miller, A characterization of the least cardinal for which the Baire category theorem fails, Proceedings of the American Mathematical Society, 86(1982), 498-502. 67

[79] A.Miller, Mapping a set of reals onto the reals, Journal of Symbolic Logic, 48(1983), 575-584. 51 63

[80] A.Miller, The Borel classification of the isomorphism class of a countable model, Notre Dame Journal of Formal Logic, 24(1983), 22-34. 10

[81] A.Miller, Special subsets of the real line, in **Handbook of set-theoretic topology**, North Holland, 1984, 201-233. 17

[82] A.Miller, K. Prikry, When the continuum has cofinality ω_1, Pacific Journal of Mathematics, 115(1984), 399-407. 37

[83] A.Miller, Infinite combinatorics and definability, Annals of Pure and Applied Mathematical Logic, 41(1989), 179-203. 97

[84] A.Miller, Projective subsets of separable metric spaces, Annals of Pure and Applied Logic, 50(1990), 53-69. 12

[85] A.Miller, Special sets of reals, in **Set Theory of the Reals**, ed Haim Judah, Israel Mathematical Conference Proceedings, vol 6(1993), 415-432, American Math Society. 12 17

[86] Y.Moschovakis, Uniformization in a playful universe, Bulletin of the American Mathematical Society, 77(1971), 731-736. 81

[87] Y.Moschovakis, **Descriptive set theory**, North Holland 1980. 2 68

[88] J.C.Oxtoby, **Measure and category**, Springer-Verlag, 1971. 2 60

[89] G.Poprougenko, Sur un probl/'eme de M. Mazurkiewicz, Fundamenta Mathematicae, 15(1930), 284-286. 57

[90] T.Przymusinski, The existence of Q-sets is equivalent to the existence of strong Q-sets, Proceedings of the American Mathematical Society, 79(1980), 626-628. 17

[91] C.A.Rogers et al, editors, **Analytic Sets**, Academic Press, 1980. 68

[92] F.Rothberger, On some problems of Hausdorff and of Sierpiński, Fundamenta Mathematicae, 35(1948), 29-46. 16

[93] G.Sacks, **Higher Recursion Theory**, Springer-Verlag, 1990. 120

[94] R.Sami, On Σ_1^1 equivalence relations with Borel classes of bounded rank, Journal of Symbolic Logic, 49(1984), 1273-1283. 110

[95] S. Shelah, On co-κ-Souslin relations, Israel Journal of Mathematics, 47(1984), 139-153. 110

[96] J.Shoenfield, The problem of predicativity, Essays on the foundations of mathematics, Magnes press, Hebrew University, Jerusalem, 1961, 132-139. 74

[97] W.Sierpiński, **Introduction to general topology**, University of Toronto Press, 1934, translated from original Polish version of 1928. 6

[98] R. Sikorski, **Boolean Algebras**, Springer-Verlag New York, 1969, 3rd edition. 30 32

[99] J.Silver, Counting the number of equivalence classes of Borel and coanalytic equivalence relations, Annals of Mathematical Logic, 18(1980), 1-28. 25 98

[100] S.Solecki, Covering analytic sets by families of closed sets, preprint 1993. 106

[101] R.M.Solovay, On the cardinality of Σ_2^1 sets of reals, in **Foundations of Mathematics**, Biulof et al eds., Springer-Verlag (1969), 58-73. 76 82

[102] R.M.Solovay, S.Tennenbaum, Iterated Cohen extensions and Souslin's problem, Annals of Mathematics, 94(1971), 201-245. 36

[103] C.Spector, Hyperarithmetical quantifiers, Fundamenta Mathematicae, 48(1960), 313-320. 95

[104] E.Szpilrajn, Sur l'équivence des suites d'ensembles et l'équivence des fonctions, Fundamenta Mathematicae, 26(1936), 302-326. 13

[105] E.Szpilrajn, The characteristic function of a sequence of sets and some of its applications, Fundamenta Mathematicae, 31(1938), 207-223. 13

[106] J.R.Steel, Forcing with tagged trees, Annals of Mathematical Logic, 15(1978), 55-74. 25

[107] J.Stern, Perfect set theorems for analytic and coanalytic equivalence relations, in **Logic Colloquium '77** ed by Macintyre et al, North Holland, 1978, 277-284. 110

[108] J. Stern, Effective partitions of the real line into Borel sets of bounded rank, Annals of Mathematical Logic, 18 (1980), 29-60. 110

[109] S.Todorcevic, Two examples of Borel partially ordered sets with the countable chain condition, Proceedings of the American Mathematical Society, 112(1991), 1125-1128. 106

[110] S.Williard, **General Topology**, Addison-Wesley, 1970. 8