# References

[1] Mirna Džamonja and Jouko Väänänen. A family of trees with no uncountable branches. *Topology Proc.*, 28(1):113–132, 2004. Spring Topology and Dynamical Systems Conference.

[2] Paul C. Eklof. The model theory of abelian $p$-groups. In *Advances in algebra and model theory (Essen, 1994; Dresden, 1995)*, volume 9 of *Algebra Logic Appl.*, pages 215–227. Gordon and Breach, Amsterdam, 1997.

[3] Paul C. Eklof, Matthew Foreman, and Saharon Shelah. On invariants for $\omega_1$-separable groups. *Trans. Amer. Math. Soc.*, 347(11):4385–4402, 1995.

[4] Sy D. Friedman, Tapani Hyttinen, and Mika Rautila. Classification theory and $0^{\#}$. *J. Symbolic Logic*, 68(2):580–588, 2003.

[5] Aapo Halko. Negligible subsets of the generalized Baire space $\omega_1^{\omega_1}$. *Ann. Acad. Sci. Fenn. Math. Diss.*, (107):38, 1996.

[6] Aapo Halko and Saharon Shelah. On strong measure zero subsets of $^{\kappa}2$. *Fund. Math.*, 170(3):219–229, 2001.

[7] Heikki Heikkilä. Definability and infinitely deep languages. *Ann. Acad. Sci. Fenn. Ser. A I Math. Dissertationes*, (89):62, 1993.

[8] Heikki Heikkilä and Jouko Väänänen. Reflection of long game formulas. *Math. Logic Quart.*, 40(3):381–392, 1994.

[9] Alex Hellsten, Tapani Hyttinen, and Saharon Shelah. Potential isomorphism and semi-proper trees. *Fund. Math.*, 175(2):127–142, 2002.

[10] Taneli Huuskonen. Comparing notions of similarity for uncountable models. *J. Symbolic Logic*, 60(4):1153–1167, 1995.

[11] Taneli Huuskonen. Observations about Scott and Karp trees. *Ann. Pure Appl. Logic*, 76(3):201–230, 1995.

[12] Taneli Huuskonen, Tapani Hyttinen, and Mika Rautila. On the $\kappa$-cub game on $\lambda$ and $I[\lambda]$. *Arch. Math. Logic*, 38(8):549–557, 1999.

[13] Taneli Huuskonen, Tapani Hyttinen, and Mika Rautila. On potential isomorphism and non-structure. *Arch. Math. Logic*, 43(1):85–120, 2004.

[14] Tapani Hyttinen. Games and infinitary languages. *Ann. Acad. Sci. Fenn. Ser. A I Math. Dissertationes*, (64):32, 1987.

[15] Tapani Hyttinen. Model theory for infinite quantifier languages. *Fund. Math.*, 134(2):125–142, 1990.

[16] Tapani Hyttinen. Preservation by homomorphisms and infinitary languages. *Notre Dame J. Formal Logic*, 32(2):167–172, 1991.

[17] Tapani Hyttinen. On nondetermined Ehrenfeucht-Fraïssé games and unstable theories. *Z. Math. Logik Grundlag. Math.*, 38(4):399–408, 1992.

[18] Tapani Hyttinen. Club-guessing and non-structure of trees. *Fund. Math.*, 168(3):237–249, 2001.

[19] Tapani Hyttinen and Mika Rautila. The canary tree revisited. *J. Symbolic Logic*, 66(4):1677–1694, 2001.

[20] Tapani Hyttinen and Saharon Shelah. Constructing strongly equivalent nonisomorphic models for unsuperstable theories. Part A. *J. Symbolic Logic*, 59(3):984–996, 1994.

[21] Tapani Hyttinen and Saharon Shelah. Constructing strongly equivalent nonisomorphic models for unsuperstable theories. Part B. *J. Symbolic Logic*, 60(4):1260–1272, 1995.

[22] Tapani Hyttinen and Saharon Shelah. Constructing strongly equivalent nonisomorphic models for unsuperstable theories. Part C. *J. Symbolic Logic*, 64(2):634–642, 1999.

[23] Tapani Hyttinen, Saharon Shelah, and Heikki Tuuri. Remarks on strong nonstructure theorems. *Notre Dame J. Formal Logic*, 34(2):157–168, 1993.

[24] Tapani Hyttinen, Saharon Shelah, and Jouko Väänänen. More on the Ehrenfeucht-Fraïssé game of length $\omega_1$. *Fund. Math.*, 175(1):79–96, 2002.

[25] Tapani Hyttinen and Heikki Tuuri. Constructing strongly equivalent nonisomorphic models for unstable theories. *Ann. Pure Appl. Logic*, 52(3):203–248, 1991.

[26] Tapani Hyttinen and Jouko Väänänen. On Scott and Karp trees of uncountable models. *J. Symbolic Logic*, 55(3):897–908, 1990.

[27] Maaret Karttunen. Infinitary languages $N_{\infty\lambda}$ and generalized partial isomorphisms. In *Essays on mathematical and philosophical logic (Proc. Fourth Scandinavian Logic Sympos. and First Soviet-Finnish Logic Conf., Jyväskylä, 1976)*, volume 122 of *Synthese Library*, pages 153–168. Reidel, Dordrecht, 1979.

[28] Maaret Karttunen. Model theoretic results for infinitely deep languages. In *Proceedings of the Finnish-Polish-Soviet logic conference (Polanica Zdrój, 1981)*, volume 42, pages 223–241 (1984), 1983.

[29] Maaret Karttunen. Model theory for infinitely deep languages. *Ann. Acad. Sci. Fenn. Ser. A I Math. Dissertationes*, (50):96, 1984.

[30] Alan Mekler and Juha Oikkonen. Abelian $p$-groups with no invariants. *J. Pure Appl. Algebra*, 87(1):51–59, 1993.

[31] Alan Mekler, Saharon Shelah, and Jouko Väänänen. The Ehrenfeucht-Fraïssé-game of length $\omega_1$. *Trans. Amer. Math. Soc.*, 339(2):567–580, 1993.

[32] Alan Mekler and Jouko Väänänen. Trees and $\Pi^1_1$-subsets of $^{\omega_1}\omega_1$. *J. Symbolic Logic*, 58(3):1052–1070, 1993.

[33] Alan H. Mekler and Saharon Shelah. The canary tree. *Canad. Math. Bull.*, 36(2):209–215, 1993.

[34] Juha Oikkonen. Second-order definability, game quantifiers and related expressions. *Soc. Sci. Fenn. Comment. Phys.-Math.*, 48(1):39–101, 1978.

[35] Juha Oikkonen. Logical operations and iterated infinitely deep languages. In *Proceedings of the Finnish-Polish-Soviet logic conference (Polanica Zdrój, 1981)*, volume 42, pages 243–249 (1984), 1983.

[36] Juha Oikkonen. How to obtain interpolation for $L_{\kappa^+\kappa}$. In *Logic colloquium '86 (Hull, 1986)*, volume 124 of *Stud. Logic Found. Math.*, pages 175–208. North-Holland, Amsterdam, 1988.

[37] Juha Oikkonen. On Ehrenfeucht-Fraïssé equivalence of linear orderings. *J. Symbolic Logic*, 55(1):65–73, 1990.

[38] Juha Oikkonen. A recursion principle for linear orderings. *J. Symbolic Logic*, 57(1):82–96, 1992.

[39] Juha Oikkonen. Ehrenfeucht-Fraïssé-games and nonstructure theorems. In *Proceedings of the IX Latin American Symposium on Mathematical Logic, Part 1 (Bahía Blanca, 1992)*, volume 38 of *Notas Lógica Mat.*, pages 71–81, Bahía Blanca, 1993. Univ. Nac. del Sur.

[40] Juha Oikkonen. Undefinability of $\kappa$-well-orderings in $L_{\infty\kappa}$. *J. Symbolic Logic*, 62(3):999–1020, 1997.

[41] Juha Oikkonen. Induction, games and linear orderings. In *Models, algebras, and proofs (Bogotá, 1995)*, volume 203 of *Lecture Notes in Pure and Appl. Math.*, pages 119–134. Dekker, New York, 1999.

[42] Juha Oikkonen and Jouko Väänänen. Game-theoretic inductive definability. *Ann. Pure Appl. Logic*, 65(3):265–306, 1993.

[43] Saharon Shelah. On long EF-equivalence in non-isomorphic models. In *Logic Colloquium '03*, volume 24 of *Lect. Notes Log.*, pages 315–325. Assoc. Symbol. Logic, La Jolla, CA, 2006.

[44] Saharon Shelah, Heikki Tuuri, and Jouko Väänänen. On the number of automorphisms of uncountable models. *J. Symbolic Logic*, 58(4):1402–1418, 1993.

[45] Saharon Shelah and Jouko Väänänen. Stationary sets and infinitary logic. *J. Symbolic Logic*, 65(3):1311–1320, 2000.

[46] Saharon Shelah and Pauli Väisänen. On inverse $\gamma$-systems and the number of $L_{\infty\lambda}$-equivalent, non-isomorphic models for $\lambda$-singular. *J. Symbolic Logic*, 65(1):272–284, 2000.

[47] Saharon Shelah and Pauli Väisänen. On the number of $L_{\infty\omega_1}$-equivalent non-isomorphic models. *Trans. Amer. Math. Soc.*, 353(5):1781–1817, 2001.

[48] Saharon Shelah and Pauli Väisänen. Almost free groups and Ehrenfeucht-Fraïssé games for successors of singular cardinals. *Ann. Pure Appl. Logic*, 118(1-2):147–173, 2002.

[49] Saharon Shelah and Pauli Väisänen. The number of $L_{\infty\kappa}$-equivalent non-isomorphic models for $\kappa$ weakly compact. *Fund. Math.*, 174(2):97–126, 2002.

[50] Saharon Shelah and Pauli Väisänen. On equivalence relations second order definable over $H(\kappa)$. *Fund. Math.*, 174(1):1–21, 2002.

[51] Saharon Shelah, Pauli Väisänen, and Jouko Väänänen. On ordinals accessible by infinitary languages. *Fund. Math.*, 186(3):193–214, 2005.

[52] S. Todorčević. On a conjecture of R. Rado. *J. London Math. Soc. (2)*, 27(1):1–8, 1983.

[53] Stevo Todorčević. Stationary sets, trees and continuums. *Publ. Inst. Math. (Beograd) (N.S.)*, 29(43):249–262, 1981.

[54] Stevo Todorčević. Conjectures of Rado and Chang and cardinal arithmetic. In *Finite and infinite combinatorics in sets and logic (Banff, AB, 1991)*, volume 411 of *NATO Adv. Sci. Inst. Ser. C Math. Phys. Sci.*, pages 385–398. Kluwer Acad. Publ., Dordrecht, 1993.

[55] Stevo Todorčević. The functor $\sigma^2 X$. *Studia Math.*, 116(1):49–57, 1995.

[56] Stevo Todorcevic. Lipschitz maps on trees. *J. Inst. Math. Jussieu*, 6(3):527–556, 2007.

[57] Stevo Todorčević and Jouko Väänänen. Trees and Ehrenfeucht-Fraïssé games. *Ann. Pure Appl. Logic*, 100(1-3):69–97, 1999.

[58] Stevo B. Todorčević. Some consequences of MA + ¬wKH. *Topology Appl.*, 12(2):187–202, 1981.

[59] Heikki Tuuri. Relative separation theorems for $L_{\kappa^+\kappa}$. *Notre Dame J. Formal Logic*, 33(3):383–401, 1992.

[60] Jouko Väänänen. A Cantor-Bendixson theorem for the space $\omega_1^{\omega_1}$. *Fund. Math.*, 137(3):187–199, 1991.

[61] Jouko Väänänen and Boban Veličković. Games played on partial isomorphisms. *Arch. Math. Logic*, 43(1):19–30, 2004.

[62] Pauli Väisänen. Almost free groups and long Ehrenfeucht-Fraïssé games. *Ann. Pure Appl. Logic*, 123(1-3):101–134, 2003.