

Model theory seminar

February 4, 2009

1. Fraïssé construction.

[Hodges] W. Hodges. *Model Theory*. Encyclopedia of Mathematics and its Applications, 42. Cambridge University Press, Cambridge, 1993. xiv+772 pp.

2. Hrushovski's *ab initio* construction.

[Hrushovski93] E. Hrushovski. A new strongly minimal set. Stability in model theory, III (Trento, 1991). Ann. Pure Appl. Logic 62 (1993), no. 2, 147–166. [http://dx.doi.org/10.1016/0168-0072\(93\)90171-9](http://dx.doi.org/10.1016/0168-0072(93)90171-9)

[Ziegler07] M. Ziegler. Hrushovskis primordiales Amalgam. Seminarvortrag, 2007. <http://home.mathematik.uni-freiburg.de/ziegler/preprints/primordial.pdf>.

[Poizat02] B. Poizat. Amalgames de Hrushovski (in French). In K. Tent, editor, *Tits Buildings and the Model Theory of Groups*, pp. 195–214, 2002.

3. Baldwin's non-Desarguesian plane.

[Baldwin94] J. Baldwin. An almost strongly minimal non-Desarguesian projective plane. Trans. Amer. Math. Soc. 342 (1994), no. 2, 695–711. <http://www.math.uic.edu/~jbaldwin/pub/asmpp.ps>

[Tent00] K. Tent. Very homogeneous generalized n -gons of finite Morley rank. J. London Math. Soc. (2) 62 (2000), no. 1, 1–15. (*We are interested in the case $n = 3$*).

4. Hrushovski's fusion.

[Hrushovski92] E. Hrushovski. Strongly minimal expansions of algebraically closed fields. Israel J. of Maths 79 (1992), 129–151.

[BPZ07] A. Baudisch, M. Ziegler, A. Martin-Pizarro. Hrushovski's fusion. *Algebra, logic, set theory*, pp. 15–32, Stud. Log. (Lond.), 4, Coll. Publ., London, 2007. <http://home.mathematik.uni-freiburg.de/ziegler/preprints/fusion2.pdf>

Additionally:

[Ziegler08] M. Ziegler. Fusion of structures of finite Morley rank. *Model theory with applications to algebra and analysis*. Vol. 1, pp. 225–248, London Math. Soc. Lecture Note Ser., 349, Cambridge Univ. Press, Cambridge, 2008. <http://home.mathematik.uni-freiburg.de/ziegler/preprints/finiterank.pdf>

[Holland95] K.L. Holland. An introduction to fusion of strongly minimal sets: the geometry of fusions. *Arch. Math. Logic* 34 (1995), no. 6, 395–413. <http://www.springerlink.com/content/hw81k85727n01687/>

[Holland97] K.L. Holland. Strongly minimal fusions of vector spaces. *Ann. Pure Appl. Logic* 83 (1997), no. 1, 1–22. [http://dx.doi.org/10.1016/0168-0072\(95\)00006-2](http://dx.doi.org/10.1016/0168-0072(95)00006-2)

5. Either bad fields, or Baudisch's uncountably categorical group. For Baudisch's group:

[Baudisch96] A. Baudisch. A new uncountably categorical group. *Trans. Amer. Math. Soc.* 348 (1996), no. 10, 3889–3940.

For bad fields:

[Poizat99] B. Poizat. Le carré de l'égalité. (French) [The square of equality]. *J. Symbolic Logic* 64 (1999), no. 3, 1339–1355.

[Baudisch08] A. Baudisch. The additive collapse. Preprint. <http://www.mathematik.hu-berlin.de/~wwwlogik/org/ baudisch/addcollapse.pdf>