

Generalized side conditions

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Resumo

In this talk I would like to present the method of generalized side conditions, first proposed by Neeman in 2011: a method that allows to give uniform consistency proofs for the existence of objects of size \aleph_2 . Generally speaking a poset that uses models as side conditions is a notion of forcing whose elements are pairs, consisting of a working part which is some partial information about the object we wish to add and a finite \in -chain of elementary substructures of $H(\theta)$ (for some regular cardinal θ) whose main function is to preserve cardinals. I will present in details the pure generalized side conditions poset and I will briefly show how to force, with ?nite conditions, the forcing axiom PFA(T), a relativization of PFA to proper forcing notions preserving a given Souslin tree T. If I have time I will also discuss the possibility to generalize this method and its link with the problem of generalizing Forcing Axioms.

Referências

- [1] I. Neeman, *Forcing with sequences of models of two types*, to appear in the Notre Dame Journal of Formal Logic.
- [2] B. Veličković and G. Venturi, Proper forcing remastered. In Appalachian Set Theory (Cummings, Schimmerling, eds.), LMS lecture notes series, 406, 331–361, 2012.
- [3] G. Venturi, Side conditions and Souslin trees, submitted.