



Mês de: Março 2011

SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 10 de Março (quinta-feira), às 17h, na Sala A2-25

“Finding witnesses for existential theorems in intuitionistic set theories”

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Abstract:

Intuitionistic theories are known to often possess very pleasing metamathematical properties such as the disjunction property, the numerical existence property and the existence property. While it is fairly easy to establish these properties for arithmetical theories and theories with quantification over sets of natural numbers or Baire space (e.g. second order arithmetic and function arithmetic), set theories with their transfinite hierarchies of sets of sets and the extensionality axiom can pose considerable technical challenges. The goal of the talk is to give a survey of the current knowledge. In particular I plan to talk about the long-standing open problems concerning the existence property for intuitionistic set theories in the light of recent developments.

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