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SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 8 de Março (quinta-feira), às 17h, na Sala A2-25

Some finitistic consistency proofs (Part II)

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Abstract:

Shoenfield's theorem says, roughly, that one can always add second-order logic with predicative comprehension to a first-order theory and obtain a conservative extension. This theorem can be generalized in order to even permit Δ^1_1-comprehension. We first give model-theoretic proofs of these theorems and, afterwards, discuss finitistic proofs of them. In this discussion, we show how to generalize these finitistic proofs to a Fregean setting that allows the presence of an extension (or value-range) operator. This answers a question of John Burgess in his book "Fixing Frege".(Join work with Luís Cruz-Filipe).

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