



Mês de: Maio 2011

SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 12 de Maio (quinta-feira), às 17h, na Sala A2-25

“Proof mining HILLM's theorem on fixed point iterations”

JAIME GASPAR

(Technische Universität Darmstadt, Germany)

Abstract:

HILLM's theorem gives a characterisation of the convergence of fixed point iterations. We present a quantitative version of HILLM's theorem where we give an explicit rate of metastability (a kind of "finitary rate of convergence") for the fixed point iteration. We explain how this result is obtained by methods of proof theory used in the proof mining program, called functional interpretations, which extract computational content from proofs.

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