



Mês de: Abril 2010

SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 29 de Abril (quinta-feira), às 18h, na Sala 3-10

“Polynomials instead of formulas: revamping the heritage of Boole and
Leibniz”

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Abstract:

intend to show that by generalizing the Boolean approach to logic by means of polynomials over finite fields (in particular, Galois fields) it is possible to represent semantics and proof theory for several truth-functional and non-truth-functional propositional logics, bringing back a unity between logic and algebra which vindicates some intuitions by Boole and Leibniz. I will discuss how the method can be applied to many-valued, modal logics and to paraconsistent logics (in particular to the LFI's, or the “logics of formal inconsistency”), as well as the challenges of applying the method to full quantified logic and to infinite-valued logics.

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