



Mês de: MAIO 2013

SEMINÁRIO DE LÓGICA MATEMÁTICA

(Please note the new time!!!!)

Dia 30 de Maio (quinta-feira), às 15h30, na Sala B3-01

Injecting uniformities into Peano arithmetic

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Abstract:

We present a functional interpretation of Peano arithmetic that uses Gödel's computable functionals and which systematically injects uniformities into the statements of finite-type arithmetic. As a consequence, some uniform boundedness principles (not necessarily set-theoretically true) are interpreted while maintaining unmoved the Π_0^2 sentences of arithmetic. We explain why a slight modification of this interpretation is tailored to yield conservation results and give a new proof of the conservativity of the reverse mathematics system WKL_0 over the base system RCA_0 .

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