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Mês de: Julho 2010

SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 1 de Junho (quinta-feira), às 18h, na Sala 3-10

"Definable linear orders definably embed in lexicographic orders in o-minimal structures"

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Abstract:

We completely characterize all definable linear orders in o-minimal groups. Let M be an o-minimal structure expanding a group. Let (P,<_p) be any definable linear order in M. Then (P,<_p) embeds definably in (M^{2n+1},<_l), where <_l is the lexicographic order and n is the o-minimal dimension of P. This improves a result of A. Onshuus and C. Steinhorn in the case that M has a definable order-reversing bijection. The dimension of the target space can be taken to be n+1 if M expands a field. We will also discuss connections between this topic and preference relations in economics.

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