



Mês de: Novembro 2009

SEMINÁRIO DE TEORIA DOS MODELOS

Dia 3 de Novembro (terça-feira), às 18h, na Sala B3-01

“Scale, decreasing types, and extending functions continuously in o-minimal structures”

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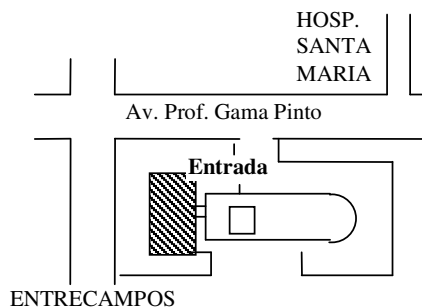
(UNIVERSITY OF LYON I)

Abstract:

Given a (non-definable) curve in an o-minimal structure and a definable function, when can we find a definable set containing the curve on which the function is continuous, and extends continuously to the closure of the set? This question is of interest even in the simplest case, where the o-minimal structure is the real field, and the curve is one definable using the exponential function. Here, we give necessary and sufficient conditions on the curve for this to be possible. Doing so leads us to introduce two new concepts, those of scale and decreasing type. Scale comes from Marker and Steinhorn, while decreasing types are related to the T-convex rings of van den Dries and Lewenberg.

Parcialmente suportado pela FCT ao abrigo do Financiamento Base-ISFL/1/209

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