



Mês de: ABRIL 2012

SEMINÁRIO DE TEORIA DOS MODELOS

Dia 12 de Abril (quinta-feira), às 15h, na Sala A2-25

Recent applications of o-minimal theories in number theory III

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Abstract:

After stating a recent theorem describing the rational points of a set definable in an o-minimal structure over the real field \mathbb{R} , we prove an application of it on torsion points of abelian varieties; namely Manin-Mumford conjecture. The main obstacle is determining the "algebraic part" of an analytic set. Then we move on to the proof of the theorem on the rational points of definable sets. The fundamental part of that proof is a certain parametrization in o-minimal structures.

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