

Faculdade de Ciências da Universidade de Lisboa  
cmafcio@fc.ul.pt Tel. (+351) 21 750 00 27

# SEMINÁRIO DE LÓGICA MATEMÁTICA

**Dia 19 de Abril (quinta-feira), sala 6.2.33 às 16:00**

## On definable normality

**Mário Edmundo**  
(Faculdade de Ciências, CMAFcIO, Universidade de Lisboa)

Abstract:

Definably normal is the notion analogue to normal topological spaces for definable spaces in o-minimal structures. We will mention and prove a couple of lemmas about definable normality. These lemmas play a fundamental role in several places, via the shrinking lemma, e.g. in the theory of definable groups, o-minimal cohomology and sheaves. In topology some of these lemmas are false but the definable analogues are true due to tameness of o-minimal structures and, the ones that are true in topology are trivial but their definable analogue require extra work and tools.

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