

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

SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 3 de novembro (quinta-feira), às 14H00, sala 6.2.33

Ordinal analysis based on iterated reflection, first-order and beyond

Joost Joosten
(Universitat de Barcelona)

Abstract:

Iteratively adding reflection principles or consistency statements to a weak base theory yields a paradigm for ordinal analysis: how often should we iterate to adequately approach a target theory? We revisit some basic early results obtained by Schmerl and then expose Beklemishev's uniform approach to computing these proof theoretical ordinals using provability logics. Towards the end of the talk we discuss the current state of the art looking at fragments of second order arithmetic and weak fragments of set theory.

*Seminário financiado por Fundos Nacionais através da FCT – Fundação para a Ciência e a Tecnologia
no âmbito do projeto UID/MAT/04561/2013*

Local: FCUL, C6 - Piso 2, 6.2.33