

Mês de: Maio 2014

SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 8 de Maio (quinta-feira), às 15 horas, na Sala A2-25

Cut-elimination for first-order logic: Gentzen's Hauptsatz

João Enes

Abstract:

The cut rule states that from $A \rightarrow B$ and $B \rightarrow C$ we can deduce $A \rightarrow C$. We will prove the cut-elimination theorem for first-order logic which says that if a formula is provable in pure first-order logic, then there is a proof of it without using the cut rule. This result has important consequences such as Herbrand's Theorem or the Subformula Property which in turn implies the consistency of pure first-order logic. From a technical point of view, this proof gives a first example of the method of cut-elimination

(Atenção para a mudança excepcional de sala neste dia)

Apoio: **FCT** **PEst-OE/MAT/UI0209/2013**
Fundação para a Ciência e a Tecnologia

Local:
INSTITUTO PARA A INVESTIGAÇÃO INTERDISCIPLINAR
Av. Prof. Gama Pinto, 2
1649-003 Lisboa

