



Mês de: **JULHO 2013**

SEMINÁRIO DE LÓGICA MATEMÁTICA

(Please note the new time!!!!)

Dia 11 de Julho (quinta-feira), às 15h30, na Sala B3-01

Formalising $ZF \subseteq ZF\varepsilon$ in Coq

Jaime Gaspar*

(INRIA Paris-Rocquencourt, πr^2 , Univ. Paris Diderot, Sorbonne Paris Cité,
F-78153 Le Chesnay, France)

Abstract:

Jean-Louis Krivine introduced a variant $ZF\varepsilon$ of ZF (Zermelo-Fraenkel set theory) with two set memberships:

- (1) the old extensional set membership \in ;
- (2) a new nonextensional set membership ε .

Then he proved $ZF \subseteq ZF\varepsilon$. In this talk we present a formalisation in Coq (an interactive theorem prover software) of Krivine's proof of $ZF \subseteq ZF\varepsilon$. The talk is divided into three parts:

- (1) a brief introduction to $ZF\varepsilon$;
- (2) a brief introduction to Coq;
- (3) the formalisation in Coq of $ZF \subseteq ZF\varepsilon$.

We keep the talk short, simple, and sweet.

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

