

# SEMINARIO IMAC DE TOPOLOGÍA



## Conferencia a cargo de Vladimir Uspenskij *Ohio University (E.E.U.U.)*

### *Epimorphisms in the category of infinite-dimensional lie groups*

**ABSTRACT:** A morphism  $f: X \rightarrow Y$  in a given category is called an epimorphism if the mapping  $f^*: \text{Mor}(Y, Z) \rightarrow \text{Mor}(X, Z)$  defined by  $f^*(g) = g \circ f$  is injective for any object  $Z$ . In the category of Hausdorff topological groups categorical epimorphisms need to have a dense range. We will discuss a similar question for the category of infinite-dimensional Lie groups modeled on Fréchet spaces.

The group of diffeomorphisms of a compact smooth manifold, equipped with the  $C^\infty$ -topology, is an example of such a Lie group.

**Fecha:** 5 de junio de 2014, a las 12:00 horas

**Lugar:** Seminario TI2329SD, ESTCE. Universitat Jaume I de Castelló