



DEPARTAMENTO
DE GEOMETRÍA Y
TOPOLOGÍA



SEMINARIO

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Group dualities and compatible lqc-group topologies

The study of group dualities and compatible group topologies was began by Varopoulos in 1964. Earlier, in 1951, Vilenkin defined the notions of a quasi-convex subset of a topological Abelian group and a locally quasi-convex (lqc) topological Abelian group. In 1999's article by Chasco, Martin-Peinador and Tarieladze published in "Studia Mathematica" was renewed the study of group dualities and compatible lqc-group topologies. In this article was posed the problem whether the least upper bound of the family of all such topologies remains compatible. Only recently (August 2017) it was announced by Lydia Aussenhofer and Saak Gabrielyan independently a negative solution of this problem.

In our lectures we will examine the above defined concepts and related results with indication of proofs.

**Organizado por el Departamento Geometría y Topología
y el Instituto de Matemática Interdisciplinar**

Fecha: 9 y 10 de octubre de 2017

Hora: 16:00 horas

Lugar: Aula 225

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