Seminario de Geometría y Topología

The Samuel realcompactification

Ana Meroño Moreno, UCM

Resumen:

The Samuel realcompactication is defined as the smallest realcompactication of a uniform space such that every real-valued uniformly continuous function can be continuously extended to it. In some aspects, it is related to the Samuel compactication as the Hewitt realcompactication is related to the Stone-Cech compactication. Moreover, it represents a way of extending realcompactness tothe frame of uniform spaces. After an introduction on this notion we will study those uniform spaces that are Samuel realcompact, i.e, the uniform spaces that coincide with their Samuel realcompactication, and their relation to a completeness-type property called Bourbaki-completeness and to non-measurable cardinals.

Lugar: Universidad Complutense de Madrid
Facultad de Ciencias Matemáticas
Departamento de Geometría y Topología, Sala 225
Fecha y Hora: Martes, 28 de marzo de 2016, 12:00
https://www.ucm.es/geometria_topologia/curso-academico-2016-2017-1