

SEMINARIO DE GEOMETRÍA

Lunes, 24 de octubre de 2011

16:00 h., [Sala Naranja](#) (ICMat, Campus de Cantoblanco)

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Singular foliations and holonomy
groupoids.

Resumen:

I will recall the notion of holonomy for a regular foliation on a smooth manifold, and the related notion of holonomy groupoid.

I will then introduce singular foliations (the simplest example is given by a vector field, possibly with singularities) and sketch a construction of an associated holonomy groupoid by Skandalis-Androulidakis.

The latter is in general not smooth. I will show that, however, under suitable conditions the restriction to leaves is smooth. The content of this talk is the first part of a project to find a normal form theorem for singular foliations, and is joint work with Androulidakis.