



CURSO DE DOCTORADO

Lectures on geometric connections and their holonomy theory

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Abstract

This series of lectures gives a gentle introduction into metric connections with torsion on Riemannian manifolds and how they can be used to investigate geometric structures on the underlying manifolds - like almost hermitian manifolds, contact manifolds, G_2 and Spin(7)-manifolds. Homogeneous spaces will turn out to play a crucial role herein - in the motivation of concepts, as a rich playground of examples, and just as much for applications like the classification of naturally reductive spaces. Further highlights will be the skew holonomy theorem and the investigation of strongly positive curvature.

Organizado por el Instituto de Matemática Interdisciplinar (IMI)

Fechas y horas: 4, 5, 8 y 9 de abril de 2019 de 10:00h a 12:00h. Lugar: Seminario 225 Facultad de CC Matemáticas, UCM