

COLOQUIO JUNIOR

Miércoles 5 de marzo, 17:00h (café a las 16:30)

Aula 520, Módulo 17, Facultad de Ciencias, UAM

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Connections on fiber bundles

The objective of this talk is to present the notion of connection in differential geometry. A connection is a way of comparing the fibers of a fiber bundle via the concept of parallel transport. After defining the concept of fiber bundle, we will introduce horizontal distributions and explain how to transport fibers along curves. We will then focus on vector bundles and linear connections, and explain how a connection is a way of differentiating sections in this context. Finally, we will talk about affine connections and the notions of geodesic spray and exponential map.



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