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# GEOMETRIC STRUCTURE ON MANIFOLDS

Gregor Weingart

Instituto de Matematicas UNAM, Unidad Cuernavaca, Mexico

## Abstract

In general there are two different ways to define smooth geometric structures on differentiable manifolds, depending respectively on the choice of a principal bundle or a groupoid. In this talk I will present examples of both approaches to geometric structures and will discuss the advantages and disadvantages of both points of view. Moreover I will explain how Cartan geometries and gauge theory can be accommodated in this picture.

**Date:** Wednesday, July 9, 2008

**Time:** 14:00

**Place:** IMBM Seminar Room, Boğaziçi University