

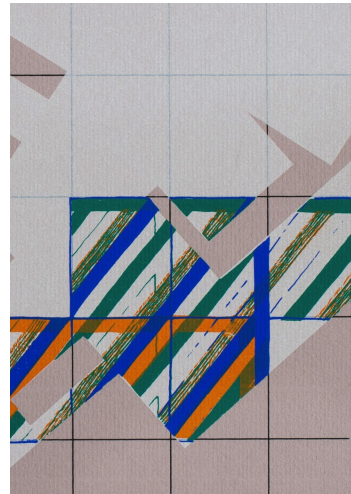
Oberseminar Geometrie

Department of Mathematics

University of Fribourg

Seminar Room 0.05 PER23

Wednesday, 18 October 2023, 10:20



PATRICK GHANAAT (UNIFR)

Solving Maurer-Cartan equations

The Maurer-Cartan equations are integrability conditions that a frame on a manifold M must satisfy in order to define a local Lie group structure on M . In this talk we review how, under suitable conditions, almost integrable frames can be deformed into integrable ones. Topics: Maurer-Cartan equations and Cartan curvature, the comparison problem, vanishing theorems and semisimple groups, Laplace spectrum and nilpotent groups, elliptic methods and Min-Oo's curvature flow.