Geometry, Groups and Dynamics/GEAR Seminar
(held at the Illinois hub of GEAR)

12:00 pm, Tuesday, May 3, 2016, 243 Altgeld Hall
Jérémy Toulisse (University of Southern California)
Hitchin representations in Sp(4,R) and conformally flat space-times

Abstract: Given a closed oriented surface S of genus g>1 and using the isomorphism between Sp(4,R) and SO(2,3), we can associate to a representation from the fundamental group of S to Sp(4,R) an action on the Einstein universe (which is the model space for 3-dimensional conformally flat Lorentz structure). In this talk, we will explain how to realize Hitchin representations in Sp(4,R) as holonomy of conformally flat Lorentz structures on the unit tangent bundle of S. This is a joint work with Nicolas Tholozan.

Video (unavailable)