

On moduli space of polygons in \mathbb{R}^3

Alessia Mandini

PUC Rio

Abstract

In this talk I will present a family of symplectic manifolds, the moduli spaces of polygons, which have been studied in recent years from several different point of views: as moduli spaces of parabolic bundles, as character varieties and as the symplectic reduction of a product of coadjoint orbits. I plan to describe these different constructions and the relations among them, and show that each family is in fact the symplectic foliation of a reduced Poisson manifold. This is on going joint work with Raimundo Leão.