

General Mathematics Seminar
of the
University of Luxembourg
in cooperation with the
Luxembourg Mathematical Society

December, 2011

Tuesday, December 13, 2011, at 17:00

Campus Kirchberg, Room B02

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Moment maps up to homotopy

Abstract:

We start reviewing a few notions in symplectic geometry (manifolds endowed with certain 2-forms), in particular we review moment maps. The aim of the talk is to propose an extension of this notion to the case of closed 3-forms invariant under a Lie group action. We show that such moment maps exist for actions satisfying very reasonable assumptions, and give an interpretation in terms of equivariant cohomology.