Queen's Algebraic Geometry
— Seminar —

TWISTED SPIN-C STRUCTURES ON CONJUGACY CLASSES

ECKHARD MEINRENKEN
University of Toronto

Abstract

Let G be a compact simple Lie group. An essential ingredient in the Borel-Weil construction of irreducible G-representations is the fact coadjoint orbits O carry distinguished Kähler structures. This Kähler structure defines in particular a spin-c structure on O. In this talk, I will explain that similarly, conjugacy classes C in G carry distinguished 'twisted spin-c' structures. These feature in a construction of generators of the level k fusion ring of G. This talk is based on joint work with A. Alekseev.

Monday 8 November 2010
16:30 – 17:30
319 Jeffery Hall