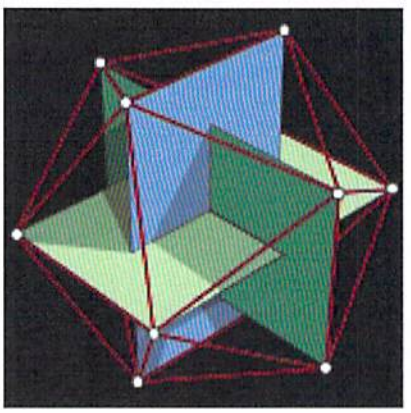
Department of Mathematics
University of Notre Dame

CLUSTER ALGEBRAS SEMINAR

Speaker: Victor Mouquin
University of Toronto



Date: Thursday, September 1, 2016
Time: 3:00 PM
Location: 125 Hayes-Healy Hall

Lecture Title:

The standard Poisson structure on Bott-Samelson varieties and its T-leaves.

Abstract

Elek-Lu introduced a so called standard Poisson structure on any Bott-Samelson variety $Z_{(s_1,\ldots,s_n)}$ of a complex semisimple Lie group. More generally, one can define a standard Poisson structure π_n on n copies of the flag variety G/B of G, such that $Z_{(s_1,\ldots,s_n)}$ sits in $(G/B)^n$ as a Poisson submanifold. We determine the T-leaves of π_n by showing that π_n is determined by a quasitriangular r-matrix, and apply the theory explained in Talk 2.

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