Elliptic log symplectic brackets on projective bundles

Dr. Matviichuk Mykola
Imperial College

Abstract

I will discuss deformation theory of complex manifolds endowed with a meromorphic symplectic form, which has only simple poles. Such deformation theory is encoded by certain graphs with decorations, called smoothing diagrams, which were introduced in a joint work with Pym and Schedler. I will discuss how combinatorics of these diagrams predicts the geometric properties of the deformed log symplectic Poisson brackets. In particular, I will present a novel method for constructing elliptic Poisson brackets.

Date: April 30, 2024 (Tuesday)
Time: 2:00 – 3:30pm
Venue: Rm 210, Run Run Shaw Bldg., HKU

All are welcome