

Higgs stacks and Lie-like structures

Abstract

- 1) Moduli stacks of coherent sheaves, quiver sheaves (including Higgs sheaves) on smooth projective curves
- 2) Global nilpotent cone, its irreducible components, moduli space of chains, their Jordan decompositions
- 3) Hall algebras techniques, including Eisenstein series, Harder residue theorem, volume computation; determination of the volume and Poincaré polynomial of the above moduli spaces
- 4) some more recent research (cohomological Hall algebras of Higgs sheaves, ...)

Presenter: SCHIFFMANN, Olivier (Université de Paris-Sud Orsay and CNRS, France)