Contribution ID: 4

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, ...)

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