

Almost periodicity of Stokes matrices of Quantum Cohomology of Grassmannians

Friday, June 9, 2017 2:15 PM (25 minutes)

Work in progress, joint with B. Dubrovin and D. Guzzetti. Quantum cohomology is a fundamental tool for the description of the enumerative geometry of smooth projective varieties, and more general symplectic manifolds. An intriguing conjecture relates Quantum Cohomology of a Fano manifold X of Hodge-Tate type with the geometry of the derived category of coherent sheaves $\mathcal{D}^b(X)$. In this seminar I will present a property of almost periodicity of Stokes matrices associated to the points of small Quantum Cohomology of complex Grassmannians, and I will discuss the “mirror counterpart” in terms of exceptional objects in their derived categories.

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