DERIVED GEOMETRY AND QUANTIZATION OF COTANGENT FIELD THEORIES

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Oct 23, 2013, 4:00 – 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: We will describe a geometric approach to quantization of cotangent field theories, generalizing the geometric construction of the algebra of differential operators. This construction is compatible with “integration” thus giving a local-to-global construction of volume forms on derived mapping spaces using a version of non-abelian duality. These volume forms give interesting invariants of varieties such as the Todd genus, the Witten genus and the B-model operations on Hodge cohomology.

See http://math.bu.edu/research/geom/seminar.html or contact Si Li sili@math.bu.edu for more information.