

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

## DERIVED GEOMETRY AND QUANTIZATION OF COTANGENT FIELD THEORIES

**Nick Rozenblyum**  
(Northwestern)

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](mailto:sili@math.bu.edu) for more information.