BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

HODGE METRIC COMPLETION OF THE TEICHMULLER SPACE OF CALABI-YAU MANIFOLDS

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Oct 9, 2013, 4:00 – 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: In this talk, we will discuss some properties of Hodge metric completion of the Teichmuller space of Calabi-Yau manifolds. We will prove that the Hodge metric completion of the Teichmuller space of polarized and marked Calabi-Yau manifolds is a complex affine manifold. We also show that the extended period map from the completion space is injective into the period domain, and that the completion space is a domain of holomorphy and admits a complete KählerEinstein metric. This is a joint work with Professor Kefeng Liu from UCLA.

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