BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

OPEN GROMOV-WITTEN THEORY AND KNOTS

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February 3, 2016, 4:00 – 5:00pm
Math/Computer Science, Room B19
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: Let X be a Calabi-Yau 3-fold, and L a Lagrangian submanifold of X. Open Gromov-Witten invariants are rational numbers $K_{g,h}$ which, roughly speaking, count holomorphic maps from a genus g Riemann surface S with h boundary components into X, where the image of the boundary of S is constrained to lie on L. In this talk, I will discuss recent work computing $K_{g,h}$ via localization, and describe current progress toward using mirror symmetry and knot contact homology to find $K_{g,h}$ when L is obtained from a knot in $\mathbb{S}^3$.

See http://math.bu.edu/research/geom/seminar.html or contact Siu Cheong Lau *lau@math.bu.edu* for more information.