BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

FLAT SURFACES AND STABILITY IN TRIANGULATED CATEGORIES

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January 27, 2016, 4:00 – 5:00pm

Math/Computer Science, Room B19

111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: I will report on joint work with L. Katzarkov and M. Kontsevich (arXiv:1409.8611) in which we identify spaces of half-translation surfaces, equivalently Riemann surfaces with quadratic differential, with spaces of stability structures on Fukaya-type categories of punctured surfaces. The result is non-trivial already in the simplest examples, which involve the representation theory of quivers and an old result of Nevanlinna. Time permitting, I will discuss some analogies and future directions.

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