

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

HIGHER SYMPLECTIC CAPACITIES

Kyler Siegel
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November 14, 2018, 4:00 – 5:00pm
Math/Computer Science, Room B21
111 Cummington Street, Boston

Tea: 3:45pm in Room B21

Abstract: Gromov's celebrated nonsqueezing theorem shows that symplectic transformations are significantly different from volume preserving transformations. Since then, a key problem has been to understand which domains can be symplectically embedded into others and to try to formalize the concept of "symplectic size" via symplectic capacities. In this talk, I will describe a framework for constructing a large class of new symplectic capacities based on symplectic field theory, or alternatively Floer theory. These capacities extend various previously known constructions and can be shown to give sharp embedding obstructions in some new cases.

See <http://math.bu.edu/research/geom/seminar.html> or contact Yoosik Kim yoosik@bu.edu or Siu-Cheong Lau lau@bu.edu for more information.