

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

EQUIVARIANT LAGRANGIAN CORRESPONDENCE AND A CONJECTURE OF TELEMAN

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CCDS 365, Dec 6, 2023, 4-5pm

Tea: 3:45pm in Room 365

Abstract: It has been a continuing interest, often with profound importance, in understanding the geometric and topological relationship between a Hamiltonian G-space Y and a symplectic quotient X . In this talk, we shall provide precise relations between their (equivariant) Lagrangian Floer theory. In particular, we will address a conjecture of Teleman on the mirror construction of X from that of Y , which generalises Hori-Vafa mirror construction for toric varieties. The key technical ingredient is an equivariant extension of Fukaya's Lagrangian correspondence tri-modules over equivariant Floer complexes, introduced by Kim, Lau and Zheng. If time permits, we will discuss its applications to toric mirror symmetry. Joint work with Prof. Naichung Conan Leung and Siu-Cheong Lau.

See <http://math.bu.edu/research/geom/seminar.html> or contact Yu-Shen Lin (yslin@bu.edu) or Brian Williams (bwill22@bu.edu) for more information.