BOSTON UNIVERSITY SPECIAL GEOMETRY SEMINAR

THE GEOMETRY OF STABILITY, SEMISTABILITY, AND INSTABILITY

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January 19, 2018, 4:00 – 5:00pm
Math/Computer Science, Room MCS 148
111 Cummington Street, Boston

Tea: 3:30pm in Room MCS 144

Abstract: Stable points occur as minima of potential functions and wall-crossing is the creation/annihilation of minima as one varies the parameters of the theory. The case when the function is a Kaehler potential is particularly rich, and I will illustrate this with examples from representation theory and symplectic geometry. The essential parameters of the Kaehler potential are encoded in moduli spaces which are a far reaching generalization of moduli spaces of flat surfaces and understanding them is a long term program initiated by Donaldson, Thomas, Bridgeland, Kontsevich, Joyce, and others.

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