BOSTON UNIVERSITY GEOMETRY SEMINAR

Area dependence for gauged Gromov-Witten invariants

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Monday, Feb. 22, 3-4 pm in MCS 135 Tea 2:45-3 in MCS 153

Abstract: Let X be a symplectic space with a hamiltonian action of a compact connected Lie group G and Σ a connected Riemann Surface. We will define (in some particular cases) gauged Gromov-Witten invariants using the vortex equation on Σ with values in X. These invariants can be understood as the equivariant Gromov-Witten invariants of the quotient [X/G]. We will also describe a wall crossing formula by analysing the dependence on the area parameter of Σ . If time permits we will study the limit $\epsilon \to \infty$. This is joint work with C. Woodward.