

1021-53-146

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Gauged Gromov-Witten Theory for Hamiltonian G -manifolds.

Let G be a 1-connected lie group. For a monotone hamiltonian G -manifold X , we will introduce its Gauged Gromov-Witten invariants associated to it. This theory is a generalization of 2-dimensional Yang-Mills and Gromov-Witten Theory. The GWW invariants can be put together to construct a *product* at the cohomology level that resembles (but is not) a generalization of the orbifold product for the global quotient X/G . Some applications will be described. This is joint work with Chris Woodward. (Received September 02, 2006)