Stanford Algebraic Geometry
— Seminar —

STABLE MAPS TO A LOOP GROUP

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Abstract

Let X be a compact complex manifold, ΩK the space of loops on a compact connected Lie group. Atiyah pointed out that the space of based holomorphic maps from X to ΩK is finite-dimensional. It is almost irresistible, when X is a Riemann surface, to attempt a stable-map compactification of this space by allowing X to acquire nodes. We will explain how to do this. It will allow us to define a quantum product on the cohomology of ΩK, which we show to be associative.

Friday, May 7
3:15 p.m.
Room 383-N

http://math.stanford.edu/~vakil/seminar0304/