

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

## SYMPLECTIC INVARIANTS AND DIFFERENTIAL FORMS

Li-Sheng Tseng  
Department of Mathematics  
University of California, Irvine

February 18, 2016, 4:00 – 5:00pm  
Math/Computer Science, Room: B08  
111 Cummington Street, Boston

Tea: 3:45pm in Room B08

**Abstract:** I will discuss the special properties of differential forms on symplectic manifolds. I will show how the presence of a symplectic structure leads naturally to A-infinity algebra structures and hence also cohomology rings of differential forms. These cohomology rings are novel symplectic invariants and I will describe some of their interesting properties and applications.

See <http://math.bu.edu/research/geom/seminar.html> or contact Siu Cheong Lau [lau@math.bu.edu](mailto:lau@math.bu.edu) for more information.