
Speaker: Xiaobo Liu
Peking University, School of Mathematical Sciences

Tuesday, February 20, 2018

11:00 AM

258 Hurley Hall

Title: Connecting Hodge integrals to Gromov-Witten invariants by Virasoro operators

Abstract:

Kontsevich-Witten tau function and Hodge tau functions are important tau functions for KP hierarchy which arise in geometry of moduli space of curves. Alexandrov conjectured that these two functions can be connected by Virasoro operators. In a joint work with Gehao Wang, we have proved Alexandrov's conjecture. In a joint work with Haijiang Yu, we show that this conjecture can also be generalized to Gromov-Witten invariants and Hodge integrals over moduli spaces of stable maps to smooth projective varieties.