



**Speaker:** Xiaobo Liu  
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Tuesday, April 3, 2012  
11:00 AM  
258 Hurley Hall

**Title:** On genus-1 Virasoro conjecture for Gromov-Witten invariants

**Abstract:**

The Virasoro conjecture predicts that the generating function of Gromov-Witten invariants of any smooth projective variety is annihilated by an infinite sequence of differential operators which form a half branch of the Virasoro algebra. Similar properties hold for tau functions of many integrable systems. The genus-0 part of the Virasoro conjecture has been completely resolved. I will talk about the current state of this conjecture for the genus-1 case.