1139-14-284 **Qile Chen*** (qile.chen@bc.edu), Department of Mathematics, Maloney Hall, Fifth Floor, Boston College, Chestnut Hill, MA 02467. *Witten's top Chern classes via logarithmic compactification.*

Witten's top Chern class was constructed previously by Fan-Jarvis-Ruan and Chang-Li-Li. The authors proved that it can be represented by a Chow cycle supported on a proper locus inside a non-proper moduli space. In this talk, I will introduce a new approach aiming at a proper moduli space carrying a perfect obstruction theory whose associated virtual class is Witten's top Chern class. Our method also provides compactified moduli spaces for many interesting cases of Gauged linear sigma model introduced by Fan-Jarvis-Ruan.

This is a joint work in progress with Felix Janda and Yongbin Ruan. (Received February 14, 2018)