1176-14-21 Dawei Chen* (dawei.chen@bc.edu) and Miguel Prado Godoy (pradogod@bc.edu). Residues of differentials and intersection theory on moduli spaces.

Consider meromorphic differentials on the Riemann sphere with a unique zero and fixed orders of poles. How many such differentials satisfy that the residue at each pole is equal to a given value? This question was studied by Gendron and Tahar via counting graphs that arise from the flat geometry of differentials. In this talk we introduce a different method to study this question by using intersection theory on the moduli space of pointed rational curves. (Received December 28, 2021)