

# Kontsevich-Penner matrix model and intersection numbers

Alexander Aleksandrov<sup>\*</sup>

[alexandrovsash@gmail.com](mailto:alexandrovsash@gmail.com)

---

In my talk I will discuss a family of matrix models, which describes the generating functions of intersection numbers on moduli spaces both for open and closed Riemann surfaces. Linear (Virasoro  $W$ -constraints) and bilinear (KP/MKP integrable hierarchies) equations immediately follow from the matrix model representation.

---

<sup>\*</sup>Centre de recherches mathématiques, Université de Montréal, C.P. 6128, succ. Centre-ville, Montréal, QC H3C 3J7, CANADA.