

# Open intersection numbers, matrix models and W-constraints

*Tuesday, 11 June 2019 11:00 (30 minutes)*

In their recent work R. Panharipande, J. Solomon and R. Tessler constructed intersection theory on the moduli spaces of Riemann surfaces with boundaries. The goal of my talk is to describe the generating function of this theory, which is a simplest example of the open topological string model, in terms of matrix models and integrable hierarchies. The geometrical description of the open theory is much more complicated than the closed one, however, on the level of matrix models and integrable systems the difference is not so dramatic and the open case can be described by a natural deformation of the Kontsevich-Witten model.

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