



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Topological open/closed string dualities

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Date: November 11, 2019

Time: 11.30 am

Venue: A-304, TIFR



We sharpen the duality between open and closed topological string partition functions for topological gravity coupled to matter. The closed string partition function is a generalized Kontsevich matrix model in the large dimension limit. We integrate out off-diagonal degrees of freedom associated to one source eigenvalue, and find an open/closed topological string partition function. We connect our work to the literature on a wave function of the KP integrable hierarchy and clarify the role of the extended Virasoro generators that include all time variables as well as the coupling to the open string observable.