

Abstract

We provide effective formulae for generating functions of multipoint correlators for unitary invariants ensembles. As an application we show that the multipoint correlators of the Laguerre and the Jacobi ensembles are obtained in terms of Hahn polynomials and Wilson polynomials generalising earlier formula for one-point correlators. Finally we provide an enumerative interpretation of the topological expansion of these multipoint correlators. This is a joint work with M. Gisonni and G. Ruzza.