

Liquid theory of spherical and unitary designs

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"Designs" are sets of points, for example on a sphere, that have the property that averages of polynomials over the set coincide with averages over the whole sphere. Similarly for the unitary group.

One can treat these points as interacting particles, and use liquid theory to study the problem. I will present the problem as seen from a physicist's point of view.

Primary author: Prof. KURCHAN, Jorge (École Normale Supérieure de Paris)

Presenter: Prof. KURCHAN, Jorge (École Normale Supérieure de Paris)

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