ID de Contribution: **6** Type: **Non spécifié**

Freeness to all orders

jeudi 20 juin 2024 10:00 (1 heure)

I will describe a theory of free cumulants to all orders (g,n), both at the level of combinatorics (surfaced permutations) and generating series (higher R-transform machinery). Freeness up to order (g,n) is then defined by the additivity of free cumulants up to order (g,n). (0,1) is the usual freeness, (1/2,1) is infinitesimal freeness, (0,n) is the n-order freeness of Collins-Mingo-Speicher-Sniady. This theory is adapted to address all-order (in particular, beyond leading order) asymptotic expansions in unitarily invariant ensembles of random hermitian matrices. I will discuss its application to GUE + deterministic.

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