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## Invitation to Random Tensor Models: from Random Geometry, Enumeration of Tensor Invariants, to Characteristic Polynomials

jeudi 20 novembre 2025 16:00 (50 minutes)

I will introduce random tensor models by first reviewing their motivation coming from random geometric approach to quantum gravity. Then, I will selectively present some of the interesting research results, by highlighting recent results on enumerations of graphs representing tensor invariants, and reporting our recent work on a new notion of characteristic polynomials for tensors via Grassmann integrals and distributions of roots of random tensors.

The latter two are based on arXiv:2404.16404[hep-th] and arXiv:2510.04068[math-ph]  $\,$ 

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