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Random Tensors

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Random tensors generalize random matrices and group field theory. Their Feynman perturbative expansion sums over all manifolds and a restricted class of quasi-manifolds, hence may be used to probe random geometries in higher dimensions. We shall review the 1/N expansion of random tensors. It is indexed by a new parameter (Gurau's degree) which is not a topological invariant of the underlying manifold, hence suggests new questions in enumerative combinatorics. Finally we shall discuss briefly the associated class of non-local tensor quantum field theories which generalize non-commutative field theories.

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