

FEYNMAN GRAPH REPRESENTATION OF THE KPZ EQUATION DRIVEN BY LÉVY NOISE

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In this talk we consider a KPZ equation defined on a Lattice L_δ with coefficients of non-linearity with degree p . An analytic solution in the sense of formal power series is given.

The obtained series can be re-expressed in terms of rooted trees with two types of leaves. A graphical representation of the solution and the correlation function is given in this talk.

The special case when the noise is of Lévy type gives a simplified representations of the solution of the KPZ equation.