

REPLICA ANALYSIS OF THE 1D KPZ EQUATION

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For the last two years, there has been renewed interests in the 1D KPZ equation. One reason is that an explicit formula was given for the one-point height distribution. This is for the narrow wedge initial condition and is based on the results by Tracy and Widom for the ASEP.

In this talk, we discuss a replica approach to the 1D KPZ equation, which seems most useful for various generalizations.