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题目: Short time large deviations of the KPZ equation

摘要: We review our recent results on the short time large deviations of the KPZ equation. We derive a variational formula for the one point large deviation rate function of the KPZ equation in the short time regime. For this rate function, we show a crossover from quadratic to  $5/2$  power law in the lower tail. We also show a crossover from quadratic to  $3/2$  power law in the upper tail. This confirms various physics prediction. Based on joint work with Li-Cheng Tsai and Pierre Yves Gaudreau Lamarre.