

A random particle system and nonentropy solutions of the Burgers equation on the circle

Aleksandre Boritchev, Université Lyon 1

We consider a particle system which is equivalent to a process valued on the space of nonentropy solutions of the inviscid Burgers equation. Such solutions are conjectured to be relevant for the study of the KPZ fixed point. We prove ergodicity and obtain some properties of the stationary measure.