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Forum de Physique Statistique @ ENS

Mercredi 23 Fevrier 2022, 14 :30
LPENS, Salle Djebar (29 rue d'Ulm)(please write to xiangyu.cao@ens.fr for a zoom link.)
Domaines : cond-mat.stat-mech

Titre : *A journey from classical integrability to the large deviations of the Kardar-Parisi-Zhang equation*

Orateur : **Alexandre Krajenbrink (SISSA)**

Résumé : *In this talk, I will revisit the problem of the large deviations of the Kardar- Parisi-Zhang (KPZ) equation in one dimension at short time by introducing a novel approach which combines field theoretical, probabilistic and integrable techniques. My goal will be to expand the program of the weak noise theory, which maps the large deviations onto a non-linear hydrodynamic problem, and to unveil its complete solvability through a connection to the integrability and the scattering theory of the Zakharov-Shabat system.*