Séminaire de physique mathématique

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Lundi 18/11/2019, 11:00

Orme des Merisiers Salle Claude Itzykson, Bât. 774

Randomized box-ball systems, limit shape of soliton distributions and thermodynamic Bethe ansatz

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The n-color box-ball system (BBS) is an integrable cellular automaton in one dimension. In the first part, I review its basic features including solitons, ultra-discretization, Yang-Baxter relation, and quantum group symmetry, etc. In the second part, I introduce a randomized version of the BBS and present a recent result on the limit shape of soliton distributions based on thermodynamic Bethe ansatz.