Laboratoire de Physique Théorique et Hautes Energies

Unité Mixte de Recherche (UMR 7589) de Sorbonne Université et du CNRS

SEMINAIRE du LPTHE

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Miquel dynamics for circle patterns

Circle patterns are one of the ways to uniformize graphs on surfaces, by embedding them in such a way that every face admits a circumcircle. In this talk I will describe a discrete-time dynamical system on circle patterns with the combinatorics of the square grid. This dynamics, based on the classical six-circles theorem of Miquel, is called Miquel dynamics. It was introduced by Richard Kenyon as an attempt to find a connection between circle patterns and the dimer model. I will present some properties of this dynamics which suggest its integrability.

Partly joint work with Alexey Glutsyuk (École normale supérieure de Lyon).

Bibliothèque du LPTHE, tour 13/14, 4ème étage

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