



Du
24
MARS.
2023

16h30
-
18h00

ÉQUATIONS DIFFÉRENTIELLES MOTIVIQUES ET AU-DELÀ

Quantum character varieties

IHP
314

INSCRIPTION

In this talk I will discuss a quantisation procedure for a class of affine del Pezzo surfaces that appear in several contexts of mathematics. Most of the talk will be based on a specific example, namely the affine del Pezzo surfaces defined as character variety of a torus with one disk removed. I will show the relation between this surface, singularity theory, Painlevé differential equations, and introduce a cluster algebra structure on it which is related to Markov numbers. I will discuss quantisation of the Markov cubic in terms of basic orthogonal polynomials and relate it to Sklyanin algebra.

URL of the page: <https://www.ihp.fr/fr/agenda/quantum-character-varieties>



INSTITUT HENRI POINCARÉ - UAR839

Sorbonne Université / CNRS
11 rue Pierre et Marie Curie
75231 Paris Cedex 05

HORAIRES

L'institut :

- lundi au vendredi de 8h30 à 18h,
- fermé les jours fériés.

Le musée - Maison Poincaré :

- lundi, mardi, jeudi et vendredi de 9h30 à 17h30,
- samedi de 10h à 18h,
- fermé le mercredi et le dimanche.