

Algèbres non commutatives, théorie des représentations et fonctions
spéciales
23 mai - 10 juin 2022

Non-commutative algebras, representation theory and special functions
May 23 - June 10, 2022

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Recent developments at the interface of representation theory and statistical mechanics

Constructions living at the interface of representation theory and statistical mechanics have driven sustained progress in representation theory over a number of years, providing both new structures to study, and new ways to study classical structures. Here we aim to review some of this progress, with a mixture of top-down and bottom-up perspectives. We will perhaps use recent developments in the study of 'spin-chain' braid representations as our leitmotif.