

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

Non-commutative algebras, representation theory and special functions
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Representation theory of centraliser algebras

In this mini-course, I will present some techniques which can be used uniformly to study the representation theory of centraliser algebras, such as the Temperley-Lieb, Brauer, walled Brauer and partition algebras. I will also explain how we can understand the representations using a reflection geometry and corresponding Kazhdan-Lusztig polynomials.