

Algèbres non commutatives, théorie des représentations et fonctions
spéciales
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Non-commutative algebras, representation theory and special functions
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General Jones-Wenzl Idempotents

The Jones-Wenzl idempotents are celebrated elements of Temperley-Lieb algebras. Their existence have far-reaching consequences and they are the smallest and easiest examples of "clasps" (also known as "magic weave elements") which arise in the study of certain categories of $U_q(\mathfrak{sl}_n)$ modules. In this talk, we will take a whirlwind tour through the representation theory of Temperley-Lieb algebras over arbitrary (mixed) characteristic followed by a more sedate, careful, walk through the construction of the generalised Jones-Wenzl idempotents. The procedure is suggestive of a larger theory, and we will briefly touch on some applications other interesting (positive characteristic) constructions.