

Algebras of Jordan and Monster type

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The class of axial algebras is a broad generalisation of the Majorana algebras of Ivanov. The big idea behind this is to build a theory of a of group-related non-associative algebras combining examples for classical, exceptional and sporadic groups.

In the talk we will review the recent advances in this area. This includes the Jordan components in the algebras of Jordan type, showing how the discrete structures related to (finite) 3-transposition groups fuse seamlessly with continuous structures related to algebraic groups. We will also briefly review the current state of the classification of 2-generated algebras of Monster type and 6-transposition groups.