2-generated axial algebras of Monster type

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Extending earlier work by A.A. Ivanov [6] on Majorana algebras, axial algebras of Monster type were introduced in 2015 by Hall, Rehren and Shpectorov [5] in order to axiomatise some key features of certain classes of algebras related to large families of finite simple groups, such as the weight-2 components of OZ-type vertex operator algebras, Jordan algebras, and Matsuo algebras.

In this talk I'll present the current status of the classification of the 2-generated primitive axial algebras of Monster type. This is a joint project with Mario Mainardis, Justin McInroy and Sergey Spectorov.

References

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