## Recent Trends in the Research of the Theory of Representation of Algebras and its Application.

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## Abstract

Brauer configuration algebras were introduced by Green and Schroll as a way to deal with the research of algebras of wild representation type [1]. In this talk, Brauer configuration algebras are used to categorify (in the sense of Ringel and Fahr [2, 3]) magic squares and to generate schemes of visual cryptography.

## References

- [1] E.L. Green and S. Schroll, Brauer configuration algebras: A generalization of Brauer graph algebras, Bull. Sci. Math, 147 (2017), 539-572.
- [2] C. M. RINGEL AND P. FAHR, Categorification of the Fibonacci Numbers Using Representations of Quivers, Journal of Integer Sequences, 15 (2012), no. 12.2.1.
- [3] C. M. RINGEL AND P. FAHR, A Partition Formula for Fibonacci Numbers, Journal of Integer Sequences, 11, (2008), no. 08.14.

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