# Al@Bicocca seminar

You are all welcome to the next bite of the series

### "Al@Bicocca"

which is meant to give you a small taste of the Algebra at Bicocca and beyond



10 July 2024 14.00 (UTC+1)

#### Online venue: WebEx

University of Milano-Bicocca Via R. Cozzi 55 Milano (IT)

#### Organizers:

Marco Barbieri Alberto Cassella Giulia Dal Verme Nicola Grittini Francesco Matucci Matteo Tarocchi

Website 🌘

# Susanne Pumpluen

University of Nottingham

## Generalizing classical results from central simple algebras to the nonassociative setting, and introducing the semiassociative Brauer monoid

**Abstract:** Recently, the theory of semiassociative algebras and their Brauer monoid was introduced by Blachar, Haile, Matri, Rein, and Vishne as a canonical generalization of the theory of associative central simple algebras and their Brauer group; together with the tensor product, semiassociative algebras over a field form a monoid that contains the classical Brauer group as its unique maximal subgroup.

I would like to introduce to you some classes of semiassociative algebras that are canonical generalizations of cyclic simple algebras and explore their behaviour in the Brauer monoid. Time permitting, we can also discuss some - hopefully interesting - particularities and challenges of this newly defined Brauer monoid.