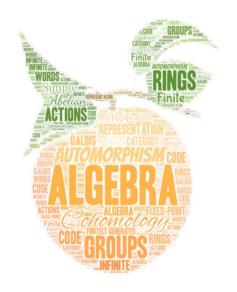# AI@Bicocca seminar

You are all welcome to the next bite of the series

"AI@Bicocca"

which is meant to give you a small taste of the

Algebra at Bicocca and beyond

Marco Vergani
Universitá degli Studi di Firenze

26 March 2025
14:00 (UTC+1)

Online venue: WebEx
University of Milano-Bicocca
Via R. Cozzi 55
Milano (IT)

Organizers:
Marco Barbieri
Marco Fusari
Nicola Grittini
Ettore Marmo
Francesco Matucci
Matteo Tarocchi

Website ⊕

Rationality of finite groups: groups with quadratic fields of values

Abstract: The main topic of this seminar is families of groups that have a characterization of their integral central units inside the rational group algebra. Using representation theory it is possible to consider groups as acting over vector spaces in a natural way, relating the irreducibile actions to the field generated by the trace of the representation. Those fields give us a lot of information about the group itself. In this seminar we will focus on groups with field of values that are quadratic extensions of the rationals and we will define tools that allow us to detect how far the group is from a "rational" action.