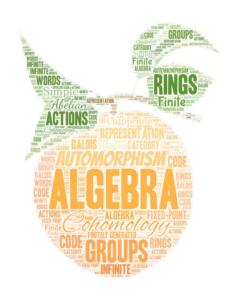# Al@Bicocca seminar

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

Nicola Grittini

University of Milano-Bicocca

20 March 2024
11.00 am (UTC+1)

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

Organizers:
Marco Barbieri
Alberto Cassella
Giulia Dal Verme
Francesco Matucci
Matteo Tarocchi

Website 🌐

Character degrees and character values

Abstract: Character theory of finite groups is traditionally focused on the study of character degrees, since they are relatively easy to control and they can provide much information on group structure. The rest of the character table, on the other hand, is often overlooked, with few exceptions, as when *rational-valued* and *real-valued* characters are considered. Even in this case, however, one may ask whether the characters having values in the fields $\mathbb{Q}$ and $\mathbb{R}$ are actually *special*, or the theorems involving these characters are just special cases of some more general properties.

In recent years, a more systematic research on character fields of values has begun, possibly as a consequence of the study on the so-called *Navarro/Galois-McKay conjecture*. We will see some of the problems and recent results concerning characters (fields of) values, and we will talk about why they can be interesting and how they interact with known results on rational and real-valued characters.