

Al@Bicocca seminar

You are all welcome to the next bite of the series

“Al@Bicocca”

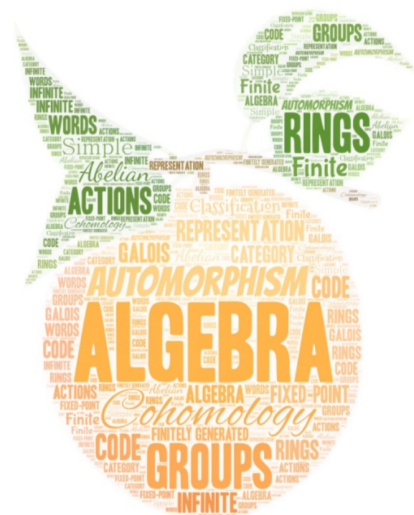
which is meant to give you a small taste of the
Algebra at Bicocca and beyond

Stefano Spessato

Università Niccolò Cusano

On the complement of a signed graph

Abstract: A G -gain graph is a triple (Γ, ψ, G) where Γ is a graph, G is a group, and ψ is a function from the set of oriented edges of Γ to G satisfying $\psi(x, y)^{-1} = \psi(y, x)$. When $G = \mathbb{Z}_2$, such graphs are called *signed graphs*. In recent years, considerable attention has been devoted to extending the rich array of classical graph constructions to the realm of G -gain graphs. During this talk, we will focus on the construction of the complement of a signed graph and it will be shown that the definition introduced in a recent work by Cavaleri, Donno, and the speaker satisfies all the expected properties. Finally, some considerations will be made regarding a possible further extension to G -gain graphs where G is an arbitrary group.



16 April 2025

12.00 (UTC+1)

Online venue: WebEx

University of Milano-Bicocca

Via R. Cozzi 55

Milano (IT)

Organizers:

Marco Barbieri

Marco Fusari

Nicola Grittini

Ettore Marmo

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