

Seminário/talk (mini-curso)

14/01/2022e $21/01/2022 \mid 15h$ Local: Sala de reuniões do Departamento de Matemática (Bloco VI)

Incidence algebras and their Lie automorphisms

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Resumo/Abstract:

After giving a brief introduction into incidence algebras and their automorphisms, we will proceed with a description of the automorphisms of the associated Lie algebra. In particular, we will show that such automorphisms are in general not proper. We will then concentrate on the study of proper Lie automorphisms of an incidence algebra I(X,K). We will find a sufficient condition on a finite connected poset X making all the Lie automorphisms of I(X,K) to be proper. For some classes of (finite connected) posets X of length one, we will explicitly describe the subgroup of proper Lie automorphisms of I(X,K).

