



APRESENTA:

Group gradings on exceptional simple Lie superalgebras

18/04/2024 às 14h00
Auditório da UAMat

Prof. Dr. Felipe Yukihide Yasumura
Universidade de São Paulo





UNIVERSIDADE FEDERAL DE CAMPINA GRANDE
CENTRO DE CIÊNCIAS E TECNOLOGIA
UNIDADE ACADÊMICA DE MATEMÁTICA



CICLO DE CONFERÊNCIAS 2024
DO PPGMAT/UFCEG

Group gradings on exceptional simple Lie superalgebras

Felipe Yukihide Yasumura[†]
Universidade de São Paulo

18/04/2024 às 14h00
Auditório da UAMat

Abstract. In this presentation, we will introduce some concepts related to the theory of graded algebras, with a particular emphasis on the duality between group gradings and actions. Then, we will discuss recent results by Elduque and Kochetov, which relate the classification of isomorphism classes of group gradings on a given algebra to their equivalence classes of fine gradings. By combining these results with the classification of equivalence classes of fine gradings on the exceptional simple Lie superalgebras by Draper et al. (2011), we are able to determine the isomorphism classes of group gradings on the same algebras. As an illustration of our findings, we will present the results on the algebra $G(3)$.

This is joint work with Mikhail Kochetov (Memorial University, Canada) and Sebastiano Argenti (University of Basilicata, Italy).

[†]Supported by Supported by Fapesp, grant 2023/03922-8 and 2018/23690-6 .
E-mail: fygasumura@ime.usp.br.