



CENTRO DE
MATEMÁTICA
UNIVERSIDADE DO PORTO

Algebra, Combinatorics and Number Theory Seminar

Date. Wednesday, April 02, 2025 - 2pm

Place. FC1 (room TBC)

Speaker. Abror Khudoyberdiyev - Institute of Mathematics (Uzbekistan)

Title. Extensions of solvable Lie and Leibniz algebras

Abstract.

In this talk, extensions of solvable Lie algebras are considered. The method of central extension is mostly used to obtain a classification of nilpotent algebras. This method was generalized for the solvable Lie algebras by T. Sund in 1979. We investigate extensions of solvable Lie algebras with naturally graded filiform nilradicals. Moreover, we generalize this method for the solvable Leibniz algebras and find extensions of solvable Lie algebras with null-filiform and filiform nilradicals.