



CENTRO DE
MATEMÁTICA
UNIVERSIDADE DO PORTO

CMUP Informal PhD Seminar

2022/2023 - **SESSION 1**

DATE: **MONDAY, OCTOBER 17, 17H00**

PLACE: **ROOM 0.31** (BUILDING FC1, FCUP)

PROGRAM:

17h00 - André Carvalho (PIUDM):

Subsets of groups: rational and context-free

Abstract:

Rational and recognizable subsets of groups are part of an important connection between the theory of formal languages and algebra. The corresponding context-free concepts (algebraic and context-free subsets) can also be used to deduce algebraic properties of the group.

In this talk, we will explore rational, recognizable, algebraic and context-free subsets of subgroups of a given group, presenting an answer to a question of Herbst: if H is a subgroup of G and K is an algebraic subset of G contained in H , is K an algebraic subset of H ?

17h50 - Coffee Break