

# Spaces of left-orderings and their Borel complexity

*jeudi 2 mai 2024 09:30 (1 heure)*

In this talk we will discuss the problem of determining the Borel complexity of the space of left-orders  $LO(G)$  of a countable left-orderable group  $G$  modulo the conjugacy  $G$ -action. We will see how this problem is connected to some well-studied topological properties of  $LO(G)$  such as the existence of dense orbits, and condensed orders. We will give an overview of our results showing that certain groups have nonstandard orbit space  $LO(G)/G$ . Time permitting, we will list open problems and discuss future directions.

Most of the results presented are joint work with Adam Clay.

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