

Logic Seminar

Left-orders of low computational complexity

Hang Lu Su (ICMAT, Madrid)

Abstract: Left-orderable groups are groups which admit a strict total order $\prec$ which is invariant under left-multiplication, called left-order. I will explain our approach to the problem of algorithmically determining whether $g \prec h$ using the framework of formal languages, and attempt to give an intuitive justification to the arbitrary choices made in formalising our study of this problem. Finally, I will give an overview of our results concerning left-orders of low computational complexity. Some of these results are joint work with Yago Antolín and Cristóbal Rivas.

Tuesday, April 20 at 11:00 AM in Zoom