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Conferencia

por

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título

“Determining solvability of groups of homeomorphisms”

Resumen:

The group G of orientation-preserving piecewise-linear homeomorphisms of the unit interval includes many important subgroups, most notably R. Thompson's group F . For any finitely generated subgroup H of G , we use topological properties of the generating homeomorphisms to show that the derived length of H is bounded above by the number of H -orbit classes of the breakpoints of the generators. Applying this result to 'computable' subgroups of G (including F), we give an algorithm which determines whether or not any given finite subset of such a computable group generates a solvable group. This is joint work with Collin Bleak and Tara Brough.

Fecha: Miércoles, 29 de marzo de 2017

Hora: 13:00 horas

Lugar: Seminario de Álgebra, Edificio de Matemáticas, 2ª planta