Title:

Generating transitive permutation groups: a conjecture of Pyber

Abstract:

Let G be a transitive permutation group, of some finite degree n, and suppose that we want to find a subset X of G, with $|X|$ as small as possible, but such that $\langle X \rangle$ remains transitive. How small can we make $|X|$ (in terms of n)? In this talk, we discuss the history of this question, which includes an interesting conjecture of Pyber, and some recent progress.

We will also outline a new problem concerning the minimal generation of finite groups, which has arisen over the last three years.