

Michigan Math Club

Thursday at 4pm in the Nesbitt Room

Free Pizza and Pop

Ramsey Theory

David Fernández-Bretón

Abstract for 2 February

The words "Ramsey Theory" denote a collection of theorems that state, in one way or another, that absolute chaos is impossible, in the sense that any sufficiently large structure will have substructures with certain specific patterns that cannot be avoided. By explaining some of these theorems, I will take you on a trip that starts in the familiar, warm and fuzzy combinatorics of finite objects, all the way to the abstruse and scary realm of uncountable really large sets, and the combinatorics of these.

