Discrete Mathematics
Seminar

Non-measurable colourings avoiding large distances

James Davies
Junior Research Fellow at Trinity Hall, Cambridge University

Abstract: In 1983, Furstenberg, Katznelson, and Weiss proved that for every finite measurable colouring of the plane, there exists a d_0 such that for all $d \geq d_0$ there is a monochromatic pair of points at distance d. In contrast to this, we show that there is a finite colouring avoiding arbitrarily large distances. This is joint work with Rutger Campbell.

Thursday, October 10, 2024, 4:00 pm
Mathematics and Science Center: MSC W303

Mathematics
Emory University