



THE UNIVERSITY of
MISSISSIPPI

Department of Mathematics

AMS Graduate Student Seminar

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Ramsey Theory: An Introduction to Mixed Ramsey Problems

Friday, March 5, 2021

2:00PM on Zoom

Meeting ID: 960 1290 4947

Passcode: AMS

Abstract: We review basic definitions in graph theory that prepare us for concepts related to Ramsey Theory and Mixed Ramsey problems. We define the Mixed Ramsey Spectrum (from Axenovich and Choi) which is for graphs F, H , as the set of colors k , such that for some k -edge-coloring of K_n , there is neither a monochromatic copy of F nor a rainbow copy of H denoted $MRS(K_n; F, H)$. Our result is for integers m and n , where $3 \leq m \leq n$, $\{n + 2 - m, \dots, (n + \binom{m-1}{2} + 1) - m\} \subseteq MRS(K_n; C_m, C_m)$.