



THE UNIVERSITY of
MISSISSIPPI
Department of Mathematics

Combinatorics Seminar

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*Quasi-surfaces:
Chromatic Numbers and Euler's Formula*

Tuesday, August 29, 2017, 4:00 p.m.
Hume 321

Abstract: Euler's formula is the foundation for many results in graph theory. Knowing this universal constant associated with graph embeddings on any surface has allowed us to advance our understanding of many foundational concepts in the discipline. In this talk, we describe a quasi-surface, a generalization of both the k -book space and the 2-sphere, for the first time. Natural questions related to graph embeddings such as the chromatic number, and whether or not there is an equivalent to the Euler formula for a quasi-surface are investigated.