



Department of Mathematics 2017–18 Colloquium Series Colloquium Announcement

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*Colorful coverings of polytopes:
The hidden topological truth
behind different colorful phenomena*

The topological KKMS Theorem is a powerful extension of Brouwer's Fixed-Point Theorem, and was proved by Shapley in 1973 in the context of game theory. We prove a colorful and polytopal generalization of the KKMS Theorem, and show that our theorem implies some seemingly unrelated results in discrete geometry and combinatorics involving colorful settings. This is joint work with Florian Frick.

Date: Thursday, February 1, 2018

Time: 4:00–5:00 pm

Location: Alavi Commons (6625 Everett Tower)
Main Campus
Western Michigan University

Refreshments will be served beginning at 3:50 pm.

For more information about the Department Colloquium Series visit wmich.edu/math/colloquium. Email inquiries may be directed to gene.freudenburg@wmich.edu.