

Math and Stat Colloquium

Thursday, October 6

3:30pm ENGR 304

Refreshments will be served in the Lund Hall Foyer at 3 p.m.

Speaker:
Brad Shelton
University of Oregon



"A little bit of non-commutative rings, a little bit of combinatorics and a little bit of topology."

Abstract: We will describe an unusual connection between the Koszul property for a certain class of non-commutative graded algebras and a specific type of singularity for topological spaces, with the connection made through the combinatorics of regular CW complexes.

References:

- 1) Cassidy, Phan, Shelton, "Noncommutative Koszul Algebras from Combinatorial Topology", Crelle's Journal, 2010.
- 2) Sadofsky, Shelton, "The Koszul Property is a Topological Invariant and a Measure of Singularities", Pacific Journal, 2011.