



The rising STAR of Texas

Discrete Mathematics Seminar

Time: Friday, September 23, 2016, 2:15-3:15 PM
Room: 237 Derrick Hall
Title: A Functorial Link between Quivers and Hypergraphs
Speaker: Dr. William Grilliette, Department of Mathematics

Abstract:

This talk uses the notions of comma categories and adjoint functors to build a functorial picture of directed multigraphs, undirected multigraphs, and hypergraphs (in the sense of Dorfler and Waller). Key processes and an examples, such as replacing an undirected edge with a directed 2-cycle and the complete hypergraph, arise naturally as adjoint pairs.