



WVU ALGEBRA SEMINAR via ZOOM

Minimal DGA Resolutions for Complete Bipartite Graphs

Hugh Geller

West Virginia University, USA

Wednesday, October 12, 2022

3:30 pm – 4:30 pm (Eastern Time USA)

Abstract: In 2016, a paper by Sköldbberg appeared on the arXiv claiming to use discrete Morse theory to impose a Differential Graded (DG) commutative algebra structure on the minimal resolution of any cointerval edge ideal over a polynomial ring. If published, the paper would imply the minimal resolution of any complete bipartite graph possesses a DG structure. In this talk, we recover Sköldbberg's results for complete bipartite graphs without the use of discrete Morse theory and note possible generalizations.

Zoom link for the talk

Meeting ID: 985 0115 6372

Passcode: Homology22