ALI ALILOOEE, University of Wisconsin-Stout
REGULARITY OF POWERS OF UNICYCLIC GRAPHS

Castelnuovo–Mumford regularity is one of the most important invariants in commutative algebra. It has been investigated by various authors from different point of view. One of the interesting properties of regularity is its asymptotic behavior. In this talk first we will see some well-known facts of regularity and then I will present some known results of asymptotic behavior of quadratic squarefree monomial ideals (edge ideal of a graph). At the end my recent work with Selvi Beyarslan about regularity of unicyclic graphs will be presented.