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**Kulumani M Rangaswamy\*** ([ranga@uccs.edu](mailto:ranga@uccs.edu)), Department of Mathematics, University of Colorado at Colorado Springs, 1420 Austin Bluffs Parkway, Colorado Springs, CO 80918. *The theory of prime ideals of Leavitt path algebras over arbitrary graphs.*

Let  $E$  be an arbitrary directed graph and let  $K$  be any field. This talk will give an account of the recent investigation of the prime and primitive ideals of the Leavitt path algebra  $L$  of the graph  $E$  over the field  $K$ . Among the topics covered are Leavitt path algebras of specific Krull dimension, Height one prime ideals of  $L$  and their relation to the graphical properties of  $E$ . (Received November 27, 2011)