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**Kulumani M Rangaswamy\*** ([ranga@uccs.edu](mailto:ranga@uccs.edu)), Department of Mathematics, University of Colorado at Colorado Springs, Colorado Springs, CO 80918. *Leavitt path algebras with prescribed Krull dimension.*

Let  $E$  be an arbitrary directed graph and let  $K$  be any field. Necessary and sufficient conditions are given on the graph  $E$  in order that the Leavitt path algebra  $L$  of the graph  $E$  over the field  $K$  has Krull dimension 0. Leavitt path algebras of various prescribed Krull dimension are investigated. Height one prime ideals of  $L$  are described. (Received January 05, 2013)