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Kulumani M Rangaswamy* (kmranga@gmail.com), Austin Bluffs Parkway, Colorado Springs, CO 80918. *Graded Primitive Leavitt Path Algebras Over Arbitrary Graphs*. Preliminary report.

Let L be a \mathbb{Z} -graded Leavitt path algebras of a directed graph E over a field K . Characterizing graphical conditions on E are given under which L becomes graded prime and graded primitive. This is used to answer the graded version of a question of Kaplansky whether a graded prime Leavitt path algebra is graded primitive. (Received January 17, 2018)