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Benjamin E Listhartke* (benlis213@ksu.edu). *Special constructions of k -graphs and their properties.*

The graph C^* -algebras form an interesting class of example C^* -algebras to study. Each such algebra is constructed from a directed graph, and the properties of the algebra can be observed through paths formed on the graph. One can also construct a higher-rank analog of directed graphs and build C^* -algebras from these. In a similar fashion, the properties of the C^* -algebra constructed from a higher-rank graph are observed through path equivalences in the graph itself. In this talk, I will explore a few interesting examples of these higher-rank graphs and discuss some of the aforementioned properties. (Received September 17, 2019)