Applications of higher rank graphs

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Higher rank graphs are higher dimensional analogues of directed graphs. One may define the C^*-algebra of a higher rank graph which reduces to the definition of a graph algebra in one dimension. The theory of higher rank graphs and their C^*-algebras is now becoming quite sophisticated, and general results are now within reach.

In this talk I shall introduce higher rank graphs and their C^*-algebras together with a number of examples and recent results which highlight their applicability.