Conjectures on Distance Graphs*

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For a collection of graphs G, the distance graph of G is defined to be the graph G containing a vertex for each graph in G, and an edge if the two corresponding graphs in G differ by exactly one edge. In 1998 Chartrand, Kubicki, and Schultz conjectured that every bipartite graph is the distance graph for some collection of graphs. In this talk we extend the class of known distance graphs, present equivalent formulations, and discuss related problems.

*This talk is based on joint work with Colton Magnant and Daniel M. Martin.