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Ryan Martin* (rymartin@iastate.edu), Department of Mathematics, 396 Carver Hall, Iowa State University, Ames, IA 50011, and **Tracy McKay**. *Recent results on the edit distance of graphs.*

In this talk, we will discuss the edit distance function, a function of a hereditary property \mathcal{H} and of p , which measures the maximum proportion of edges in a density- p graph that need to be inserted/deleted in order to transform it into a member of \mathcal{H} . We will describe a method of computing this function and give some results that have been attained using this method. The edit distance problem has applications in property testing and evolutionary biology and is closely related to well-studied Turán-type problems. (Received August 19, 2010)