Sarah Behrens*, University of Nebraska-Lincoln, Catherine Erbes, University of Colorado Denver, Michael Ferrara, University of Colorado Denver, Stephen Hartke, University of Nebraska-Lincoln, Ben Reiniger, University of Illinois Urbana-Champaign, Hannah Spinoza, University of Illinois Urbana-Champaign, and Charles Tomlinson, University of Nebraska-Lincoln. Edge exchanges and realizations of $k$-graphic sequences. Preliminary report.

A sequence of nonnegative integers is called $k$-graphic if it is the degree sequence of some simple $k$-uniform hypergraph. We extend a result of Kocay and Li to give a family of edge exchanges (an extension of two-switches) that is sufficient to transform any realization of a $k$-graphic sequence into any other realization of that sequence. However, the intermediate hypergraphs may have multi-edges. Examples will be provided to show edge exchanges that used to transform between realizations without multi-edges. (Received March 05, 2013)