Thomas Milligan* (tmilligan1@uco.edu), 100 N. University Dr., Edmond, OK 73034, and Xander Rudelis. Minor monotone floor and ceiling of certain graph parameters. Preliminary report.

A graph parameter is minor monotone if it preserves the minor relation. We consider the transformation of real-valued graph parameters into related minor monotone graph parameters using two different methods. The minor monotone floor and the minor monotone ceiling of a number of graph parameters are considered. Particular attention is given to parameters that relate to the zero-forcing number and other matrix related graph parameters. Results dealing with the Hadwiger conjecture are also considered. (Received September 21, 2011)