

1125-VF-954

Eammon J Hart* (eammonhart@mail.adelphi.edu), 86 Kamda Blvd., New Hyde Park, NY 11040, and **Branden Stone**. *Excluded Minors for Families of Graphs*. Preliminary report.

In 2004, Roberston and Seymour culminated a 20 publication long series with a proof of Wagner's conjecture, which said any minor closed family of graphs has finitely many excluded minors. My research gives a system for generating large (though not necessarily comprehensive) collections of excluded minors for certain finite families of graphs. I then provide a system for generating all of the excluded minors of the non-minor closed collection of families of graphs with maximum degree n . I then will conclude with a discussion of graphs that are excluded under some, but not all three of the the minor operations. We will primarily discuss exclusion under vertex and edge deletion. (Received September 13, 2016)