

1135-05-1998 **Breeann Flesch, Jessica Kawana, Joshua D Laison*** (jlaison@willamette.edu), **Dana Lapidés** and **Stephanie Partlow**. *Veto Interval Graphs and Variations*.

We introduce a variation of interval graphs, called veto interval (VI) graphs. A VI graph is represented by a set of closed intervals, each containing a point called a veto mark. The edge ab is in the graph if the intervals corresponding to the vertices a and b intersect, and neither contains the veto mark of the other. We find families of graphs which are VI graphs, and separating examples of graphs which are not VI graphs. We also introduce related graph families, including unit VI graphs and midpoint unit VI (MUVI) graphs. (Received September 25, 2017)