

1067-05-1196

Lisa M Warshauer* (wars@math.lsu.edu), LA. *Graphs that are Almost Series-Parallel.*

A graph is almost series-parallel if there is some edge that one can add to the graph and then contract out to leave a series-parallel graph. This class of graphs is closed under taking minors. We describe the structure of the members of this class and determine a sharp bound on the number of edges of a simple n -vertex member of the class. The main result of this talk gives the full list of excluded minors for the class of almost series-parallel graphs. (Received September 20, 2010)