

THE EXCLUDED MINORS FOR THE INTERSECTION OF BICIRCULAR AND LATTICE PATH MATROIDS

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(This talk is based on joint work with Emma Hogan.)

The classes of bicircular and lattice path matroids are subclasses of the class of transversal matroids. Although the latter class is not closed under minors, the first two classes have this property. The complete list of excluded minors for the class of bicircular matroids remains unknown, whereas the analogous list for the class of lattice path matroids has been resolved. In this talk, we give the complete list of excluded minors for the intersection of bicircular and lattice path matroids, thereby answering a problem posed by Sivaraman and Slilaty (2022).