1154-05-2071 **Ben Clark**, **Kevin Grace*** (kevin.grace@bristol.ac.uk), **James Oxley** and **Stefan H.M. van Zwam**. *Dyadic matroids with spanning cliques.*

The Matroid Minors Project of Geelen, Gerards, and Whittle describes the structure of minor-closed classes of matroids representable over a fixed finite field. In order to use these results to study specific classes, it turns out to be important to study the matroids in the class containing spanning cliques. A spanning clique of a matroid M is a complete-graphic restriction of M with the same rank as M.

In this talk, we will describe the structure of dyadic matroids with spanning cliques. The dyadic matroids are those matroids that can be represented by a real matrix A where every nonzero subdeterminant is $\pm 2^i$ for some interger i. A subclass of the dyadic matroids is the signed-graphic matroids. In the class of signed-graphic matroids, the entries of the matrix A are determined by a signed graph. Our result is that dyadic matroids with spanning cliques are signed-graphic matroids and a few exceptional cases. (Received September 17, 2019)