

# Frame matroids with a distinguished frame element

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A matroid is frame if it may be extended such that it possesses a basis  $B$  (a frame) such that every element is spanned by at most two elements of  $B$ . This gives frame matroids natural graphical representations as biased graphs.

We characterise the inequivalent graphical representations of 3-connected frame matroids that have a fixed element  $\ell$  in their frame  $B$ . One consequence is a polynomial time recognition algorithm for frame matroids with a distinguished frame element.

**Primary author:** DAVIES, James (Cambridge)

**Co-authors:** RODRÍQUEZ, Cynthia; GEELEN, Jim (University of Waterloo)

**Presenter:** DAVIES, James (Cambridge)