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**Ben Clark\*** (clarkbenj@myvuw.ac.nz) and **Geoff Whittle**. *Tangles, Trees, and Flowers*.

A tangle of order  $k$  in a matroid or graph may be thought of as a “ $k$ -connected component”. For a tangle of order  $k$  in a matroid or graph that satisfies a certain robustness condition, we describe a tree decomposition of the matroid or graph that displays, up to a certain natural equivalence, all of the  $k$ -separations of the matroid or graph that are non-trivial with respect to the tangle. (Received January 28, 2012)