

Cyclic matroids

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Tutte showed that wheels and whirls are precisely the 3-connected matroids in which every element is contained in a 3-element circuit and a 3-element cocircuit. In fact, wheels and whirls have the stronger property that there is a circular ordering of their ground set such that every two consecutive elements are contained in a 3-element circuit and a 3-element cocircuit. In this talk, we investigate matroids satisfying this property and discuss some recent results. This is joint work with Nick Brettell, Deborah Chun, Tara Fife, and Gerry Toft.

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