

Mathematical Sciences Colloquium Series

Friday (April 11, 2008)

3:00pm WA 103A

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Title: Clones and Minors in Matroids

Abstract:

Results that relate clones in a matroid to minors of that matroid are given as well as characterizations of matroids that contain few clonal-classes. An example of a result of the first type that is given is that if X is a four-element set in a 3-connected non-binary matroid M and X contains a clone-pair, then M has a $U_{2,4}$ -minor that uses X . This result is related to several results from the literature such as Tutte's Excluded-Minor characterization of the binary matroids.