

**CORR 2001-45**

**A short proof of Seymour's characterization of the  
matroids with the Max-Flow Min-Cut property**

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**Abstract** Seymour proved that the set of odd-circuits of a signed binary matroid  $(M, \Sigma)$  has the Max-Flow Min-Cut property if and only if it does not contain a minor isomorphic to  $(M(K_4), E(K_4))$ . We give a shorter proof of this result.