Cornell University

## Mathematics > Combinatorics

## Matroid 3-connectivity and branch width

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We prove that, for each nonnegative integer $k$ and each matroid $N$, if $M$ is a 3 -connected matroid containing N as a minor, and the the branch width of M is sufficiently large, then there is a k -element subset $X$ of $E(M)$ such that one of $M X$ and $M / X$ is 3 -connected and contains $N$ as a minor.

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