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Chun-Hung Liu* (chliu@math.princeton.edu). *Packing topological minors half-integrally.*

Thomas conjectured that for every graph H , there exists a function f such that for every graph G , either G contains k H -minors such that every vertex of G is contained in at most two of them, or there exists a set of at most $f(k)$ vertices of G intersecting all H -minors in G . This conjecture was confirmed by Norin. The main result of this talk is a strengthening of this conjecture. We prove that for every graph H , there exists a function f such that for every graph G , either G contains k H -topological minors such that every vertex of G is contained in at most two of them, or there exists a set of at most $f(k)$ vertices of G intersecting all H -topological minors in G . (Received February 09, 2018)