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Jim Geelen*, 200 University Avenue, Waterloo, Ontario N2L 3G1, Canada. *On Kung's Growth-Rate Conjecture.*

For a minor-closed class of matroids, let $f(k)$ denote the size of the largest simple rank- k matroid in the class. Kung made a fascinating conjecture regarding the behaviour of the function $f(k)$ for various classes of matroids. I will report on recent progress on the conjecture and will present several related conjectures. (Received September 25, 2006)