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E. Todd Eisworth* (eisworth@ohio.edu). *Sticks above the continuum.*

Suppose λ is a regular cardinal greater than 2^{\aleph_0} . We use pcf theory to obtain a bound on the minimal cardinality of a collection X of countable subsets of λ such that for any $A \subseteq \lambda$ of cardinality \aleph_1 , there is a $B \in X$ with $B \subseteq A$. (Received August 20, 2018)