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Arielle M Leitner* (arielleleitner@sbcglobal.net), 1959 Rosecreek Ct., Chico, CA 95928.

Universal Cycles of Classes of Restricted Words.

It is well known that Universal Cycles of k -letter words on an n -letter alphabet exist for all k and n . In this paper, we prove that Universal Cycles exist for restricted classes of words, including: non-bijections, equitable words (under suitable restrictions), ranked permutations, and "passwords". (Received September 10, 2008)