1096-VN-962 **Kai Orans***, ko002010@mymail.pomona.edu, and **Adam D. King** and **Amanda N. Laubmeier**. *Universal and Overlap Cycles.*

Abstract: A Universal cycle is a string of characters used to represent classes of combinatorial objects in a condensed form. Each object must share $n-1$ characters with adjacent objects and be represented exactly once in the string. Universal cycles are preferred, but sometimes not possible to construct. In these cases, we construct slightly longer, less dense overlap cycles. We show the existence of universal cycles for naturally ordered posets and overlap cycles for juggling patterns in site-swap notation and words of weight k. (Received September 11, 2013)