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Overlap Cycles. Preliminary report.

Universal cycles and Gray codes are examples of listing elements of a combinatorial family in a specific manner, and overlap cycles were invented as a generalization of these in 2010. An s -overlap cycle orders a set of strings so that the last s letters of one string are the first s letters of the next (in order). Many combinatorial objects, such as permutations, do not lend themselves immediately to the universal cycle structure. In this talk we will discuss recent results over various types of objects such as permutations. (Received September 05, 2013)