

1116-05-1057 **David A Pike*** (dapike@mun.ca), Department of Mathematics and Statistics, Memorial University of Newfoundland, Canada. *Block orderings for triple systems.*

A λ -fold triple system of order v consists of a v -set V and a collection of 3-subsets (called blocks or triples) of V such that each 2-subset of V occurs in exactly λ of the system's triples. Given a λ -fold triple system with $\lambda > 1$, we can ask whether its triples can be ordered so that the union of any two consecutive triples consists of four elements of V . We will describe some potential applications, give a review of previous results, and discuss some recent work concerning the existence (or nonexistence) of such orderings, with emphasis on 2-fold triple systems. Recent advances include joint work with Aras Erzurumluoğlu. (Received September 16, 2015)