

1125-15-947

Richard A Brualdi* (brualdi@math.wisc.edu), Department of Mathematics, UW-Madison, 480 Lincoln Drive, Madison, WI 53706. *Combinatorial Matrix Theory modulo k* . Preliminary report.

Combinatorial Matrix Theory (CMT) is now an important and thriving area of mathematics concerned with combinatorial properties of matrices and the use of matrix theory in combinatorial problems. In this expository talk we shall introduce the idea of combinatorial matrix theory modulo k (CMT-mod k) and discuss some analogues of well-known theorems of CMT. This talk is based on joint work with Seth Meyer. (Received September 13, 2016)