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**Stephen Lewis** and **Nathaniel Thiem\*** ([thiemn@colorado.edu](mailto:thiemn@colorado.edu)), University of Colorado at Boulder, Department of Mathematics, Campus Box 395, Boulder, CO 80309. *Branching coefficients in the finite unipotent upper-triangular groups.*

It is becoming increasingly clear that the supercharacter theory of the finite group of unipotent upper-triangular matrices  $U_n(F_q)$  has a rich combinatorial structure built on set-partitions that is analogous to the partition combinatorics of the classical representation theory of the symmetric group. This talk reviews the notion of a supercharacter theory and then explores the branching coefficients in the restrictions and tensor products of supercharacters of  $U_n(F_q)$ . We reveal a surprising combinatorial interpretation in terms of complete matchings in bipartite graphs. (Received February 15, 2010)