Abstract for an Invited Paper for the SES11 Meeting of The American Physical Society

Mathematical Surprises From Off-Shell SUSY Representation Theory¹

S. JAMES GATES, University of Maryland

This presentation reports on the effort to create a mathematical theory for off-shell supersymmetry that is analogous to the construction or roots and weights for Lie groups. The construction begins with the introduction of Adinkras, diagram analogous to weight space representation for quarks. Recent surprising results are discussed.

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