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13820. *An "Adinkrammatic" Perspective on Gauge Transformations.*

A given on-shell supermultiplet generally corresponds to a variety of distinct off-shell analogues. In many cases, the distinction between elements of such a set differ by a supersymmetric analog of Hodge duality. Separate representatives of such a set may exhibit p -form gauge transformations which, by virtue of supersymmetry, become curiously interlinked. In this talk we examine this interlinking phenomenon in the case of off-shell $D = 4$ $N = 2$ supersymmetry, highlighting the duality between the vector multiplet and the vector-tensor multiplet, using the language of adinkra diagrams to graphically illustrate its graph-theoretic underpinning. (Received September 20, 2005)