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Michael Dombroski* (dombroskistm11@verizon.net). *Further Extending the Preons of Harari, Shupe and Seiberg using Transpose(\) with Cispose(/)*. Preliminary report.

Dr. Don Lincoln, a senior physicist at Fermilab, wrote an article in the November 2012 issue of Scientific American. In it he referred to "a theory of sublime simplicity". He was talking about a straight-forward model of "preons" proposed independently in 1979 by Haim Harari, Michael A. Shupe, and Nathan Seiberg. In this paper we empirically extend the work of HSS by using two sets (a,m) of nine 3x3 matrices (whose elements are 3x3 real integer matrices). The "averages" of the integers of each set are 0 or +1/3. This is analogous to the electric charges of HSS. The well-known Transpose(\) with the important new Cispose(/) transformations, are necessary to generate the newly discovered Fermion Matrices and Boson Matrices. Four sets (aa, am, ma, mm) of four matrices each (16 total) demonstrate 8 pairs of groupings, each pair linked together by the same binary-form shape. <http://dombroskiSTM.org> (Received September 18, 2015)