1086-47-2424   **William Benjamin Grilliette*** (w.b.grilliette@gmail.com), 203 Eden Drive, Apartment 217, Longview, TX 75605. *Scaled-Free Properties for Matrix-Normed Objects.* Preliminary report.

This talk continues the study of the scaled-free mapping property, an extension of the free mapping property to normed-objects. Here, I devise an "array-weighted set" and associated categories, which are then used to construct of matrix-normed objects. Much like sets in the natural algebraic constructions, this class of objects is used as a base to build matrix-normed vector spaces and algebras, including operator spaces and algebras, with a scaled-free mapping property. (Received September 25, 2012)