1145-VQ-2858 Christina Pospisil* (pospisil.christina@gmx.de), Department of Mathematics, University of Massachusetts Boston, 100 William T. Morrissey Boulevard, Boston, MA 02125, and Eric L Grinberg. Generalization Theory of Linear Algebra.

We present an algorithm for multiplying and adding matrices regardless of dimensions via an embedding. We also investigate an equivalent embedding for a general determinant theory. In future work we will explore applications to physics and other natural sciences. (Received September 25, 2018)