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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 27, 2018)