

1048-11-142

**Donald Adams, Rene Ardila, David Hannasch, Audra Kosh, Hanah McCarthy and Vadim Ponomarenko\*** ([vadim@sciences.sdsu.edu](mailto:vadim@sciences.sdsu.edu)), 5500 Campanile Dr., San Diego, CA 92182-7720, and **Ryan Rosenbaum**. *On Matrix Factorization*.

Natural generalizations are presented of commutative semigroup factorization invariants, for noncommutative semigroups. These are computed for several classes of atomic subsemigroups of  $M_n(\mathbb{Z})$ . (Received February 04, 2009)