1035-16-242 Ashish K. Srivastava^{*} (asrivas3@slu.edu), Department of Mathematics and CS, St. Louis University, St. Louis, MO 63103. *Rings Generated by Units.*

A classical result of Zelinsky states that every linear transformation on a vector space V, except when V is one dimensional over Z_2 , is a sum of two invertible linear transformations. We extend this result to any right selfinjective ring R by proving that every element of R is a sum of two units if and only if no factor ring of R is isomorphic to Z_2 . We also give a complete characterization of unit sum numbers of right self-injective rings. Finally, we discuss the Hochschild extensions of rings generated by units. (Received August 23, 2007)