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Feroz Siddique* (fsiddiq2@slu.edu), Saint Louis University, Department of Mathematics and Computer Sc., 220 N Grand Blvd., St.Louis, MO 63103, India. *A generalization of Exchange rings.*

The notion of exchange property in the context of general algebra was first introduced by Crawley and Johnson [Refinements for infinite direct decompositions of algebraic systems]. Recall that a ring R is an Exchange ring, if for every right R -module A and any two decompositions $A = M \oplus N = \bigoplus_{i \in I} A_i$ where $M_R \cong R_R$ and the index set I is finite, there exists submodules $A'_i \subseteq A_i$ such that $A = M \bigoplus (\bigoplus_{i \in I} A'_i)$. Nicholson [Lifting idempotents and exchange rings] calls a ring R to be clean if every element of R is the sum of an idempotent and a unit and showed that every clean ring is an exchange ring. Camillo and Yu showed that the converse is false through an example of Bergman's. In this paper we weaken the notions of exchange (and clean) properties and draw similar relationships between them. We show that for such rings after weakening the exchange property, stable range one is equivalent to the condition that every von neumann regular element is unit regular. (Received September 16, 2014)