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ON STRONGLY REGULAR RINGS

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**Abstract:** Some characterizations of strongly regular rings will be given. Let  $R$  be a ring and  $I(\neq R)$  a right ideal of  $R$ . If, for each pair of right ideals  $A$  and  $B$  of  $R$ ,  $AB \subseteq I$  implies that either  $A \subseteq I$  or  $B \subseteq I$ , then  $I$  is called a prime right ideal (or equivalently, if  $aRb \not\subseteq I$  whenever  $a$  and  $b$  do not belong to  $I$ ).  $I$  is strongly prime right ideal if, for each pair of  $a$  and  $b$  in  $R$ ,  $ab \subseteq I$  and  $ab \in I$  imply that either  $a \in I$  or  $b \in I$ , and we call  $I$  a strongly semiprime right ideal whenever  $a \in I$  and  $a^2 \in I$  imply that  $a \in I$ . A strongly prime right ideal is trivially strongly semiprime, but the converse need not be true, as the following example shows:

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