Study of S-zero divisors

and S-idempotents in rings

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Abstract:

In this paper we define specially the notions of Smarandache zero divisors and Smarandache idempotents in rings. We show a zero divisor in general is not a S-zero divisor but a S-zero divisor is a zero divisor. Based on the notion of S-zero divisors we define Smarandache domains. Relation between the integral domains and S-domains are obtained.

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