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Rickart-type Annihilator Conditions on Formal Power Series

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Abstract: Let R be an α -rigid ring and $R_0[[x;\alpha]]$ be the nearring of a formal skew power series in which addition and substitution are used as operations. It is shown that R is Rickart and any countable family of idempotents of R has a join in $I(R)$ if and only if $R_0[[x;\alpha]] \setminus R_{r_1}$ if and only if $R_0[[x;\alpha]] \setminus R_{\text{ell } 1}$ if and only if $R_0[[x;\alpha]] \setminus \text{qR}_{r_2}$. An example to show that, α -rigid condition on R is not superfluous, is provided.

Key Words: Annihilator conditions; Nearrings; Skew power series; Baer rings; α -rigid rings; Rickart rings

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