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ON A DIFFERENTIAL ANALOG OF THE PRIME-RADICAL AND PROPERTIES OF THE LATTICE OF RADICAL DIFFERENTIAL IDEALS IN ASSOCIATIVE DIFFERENTIAL RINGS

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Abstract: In this paper we prove the following results: (1) For any assosiative differential ring with the unit we introduce a differential analog of the prime-radical and describe it; (2) any maximal differential ideal of a Ritt algebra is prime; (3) The lattice of radical differential ideals satisfies the condition of infinite \cap-distributivity.

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