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Characterizations of intra-regular Γ -AG-groupoids by the properties of their Γ ideals

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We have characterized an intra-regular Γ -AG^{**}-groupoids by using the properties of Γ -ideals (left, right, two-sided), Γ -interior, Γ -quasi, Γ -bi and Γ -generalized bi and Γ -(1,2)). We have prove that all the Γ -ideals coincides in an intra-regular Γ -AG^{**}-groupoids. It has been examined that all the Γ -ideals of an intra-regular Γ -AG^{**}-groupoids are Γ -idempotent. In this paper we define all Γ -ideals in Γ -AG^{**}-groupoids and we generalize some results.

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