

Mathematics > Group Theory

On fuzzy- Γ -ideals of Γ -Abel-Grassmann's groupoids

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In this paper, we have introduced the notion of $\{\Gamma\}$ -fuzzification in $\{\Gamma\}$ -AG-groupoids which is in fact the generalization of fuzzy AG-groupoids. We have studied several properties of an intra-regular $\{\Gamma\}$ -AG^{**}-groupoids in terms of fuzzy $\{\Gamma\}$ -left (right, two-sided, quasi, interior, generalized bi-, bi-) ideals. We have proved that all fuzzy $\{\Gamma\}$ -ideals coincide in intra-regular $\{\Gamma\}$ -AG^{**}-groupoids. We have also shown that the set of fuzzy $\{\Gamma\}$ -two-sided ideals of an intra-regular $\{\Gamma\}$ -AG^{**}-groupoid forms a semilattice structure.

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