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On lattice theoretic characterisation of maximal α - recursive sets.

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Our main aim here is to obtain a necessary and sufficient condition for the existence of maximal α -recursive enumerable sets. G. Kreisel derived some results related to generalisations of recursion theory. We develop here a Lattice theoretic approach in view of specific properties of maximal sets in terms of quotient Lattice $\Sigma(\alpha)$.

Classification: H50 E60

Keywords: admissible ordinal; alpha-recursive set; maximal set; quotient lattice; congruence relations