REGULAR RELATIONS IN TRANSFORMATION GROUPS

Jung Ok Yu

The main purpose of the present thesis is to define a new relation, so called regular relation, in a transformation group. The relation is reflexive, symmetric and invariant, but is not in general transitive.

The major portion of this note is to find the necessary and sufficient conditions for the regular relation to be an equivalence relation.

We also introduce the syndetically regular relation which is more stronger concept than that of regular relation. It will be shown that the syndetically regular relations are always transitive.

Han Nam University
Daejeon 300, Korea