

ABELIZATION OF JOIN SPACES OF AFFINE TRANSFORMATIONS OF ORDERED FIELDS WITH PROXIMITY

Šárka Hošková

Abstract. Using groups of affine transformations of linearly ordered fields is a certain construction of non-commutative join hypergroups based on the criterion of reproducibility of semi-hypergroups which are determined by ordered semigroups. The aim of this paper is to construct the abelization of the non-commutative join hypergroups of affine transformations of ordered fields. There is made a construction of commutative weakly associative hypergroup (H_ν -group) and a proximity is defined on this structure.

Šárka Hošková, Military Academy Brno, Kounicova 65, 612 00 Brno, Czech Republic
E-mail: hoskova@scova.vabo.cz