

SOME PROPERTIES OF LEFT PRODUCT OF TWO SUBCATEGORIES

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Abstract. On the examine some properties of left product of two subcategories: one coreflective and one reflective in the category of the local convex topological vectorial Hausdorff spaces. In this work on etude the situation generated by a structures of factorization $(\mathcal{P}'', \mathcal{I}'')$ with certain properties, allowing to prove that the left product of some coreflective subcategories with any \mathcal{P}'' -reflective subcategory is one and the same. In addition, be indicated examples of coreflectors and reflectors functors commutes.