ON TOPOLOGICAL BRANDT λ^0-EXTENSIONS OF A SEMITOPOLOGICAL MONOID

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The structure of compact and countably compact topological Brandt λ^0-extensions in the class of topological semigroups was described by Gutik and Repovš. The structure of these extensions proved to be very poor, namely, arbitrary compact topologization of Brandt λ^0-extension of a compact semigroup is finite. Motivated by a result which concerns topologization of infinite semitopological semigroup of matrix units, which is indeed a trivial case of Brandt λ^0-extension, we recently succeeded to describe all topologizations of *infinite* pseudocompact topological Brandt λ^0-extensions in the class of semiregular semitopological semigroups.