

# SOME STRUCTURAL PROPERTIES OF IDEAL INVARIANT INJECTIONS

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ABSTRACT. In locally compact Polish groups there is a very natural  $\sigma$ -ideal of null sets with respect to Haar-measure. In non locally compact groups there is no Haar measure, however Christensen introduced a notion of Haar-null sets which is an analogue of locally compact case. In 2013 Darji introduced a similar notion of Haar-meager sets. During my talk I will present some equivalent definition of Haar-null sets which leads us to joint generalization of those notions. This is joint work with T. Banach, Sz. Głab and E. Jabłońska.