

Abstract

We provide analogues of the results from Friedman (2011) and Camerlo (2012) (which correspond to the case $\kappa = \omega$) for arbitrary κ -Souslin quasi-orders on any Polish space, for κ an infinite cardinal smaller than the cardinality of \mathbb{R} . These generalizations yield a variety of results concerning the complexity of the embeddability relation between graphs or lattices of size κ , the isometric embeddability relation between complete metric spaces of density character κ , and the linear isometric embeddability relation between (real or complex) Banach spaces of density κ .