



Feral dual spaces and (strongly) distinguished spaces $C(X)$

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Abstract

Following Dieudonné and Schwartz a locally convex space is *distinguished* if its strong dual is barrelled. The distinguished property for spaces $C_p(X)$ of continuous real-valued functions over a Tychonoff space X is a peculiar (although applicable) property. It is known that $C_p(X)$ is distinguished if and only if $C_p(X)$ is large in \mathbb{R}^X if and only if X is a Δ -space (in sense of Reed) if and only if the strong dual of $C_p(X)$ carries the finest locally convex topology. Our main results about spaces whose strong dual has only finite-dimensional bounded sets (see Theorems 2, 7 and Proposition 4) are used to study distinguished spaces $C_k(X)$ with the compact-open topology. We also put together several known facts (Theorem 6) about distinguished spaces $C_p(X)$ with self-contained full proofs.

Keywords Distinguished space · Bidual space · Fundamental family of bounded sets · Point-finite family

Mathematics Subject Classification 54C35 · 46A03

1 Introduction

Recall that a locally convex space E is *distinguished* if its strong dual E'_β is barrelled (i.e. any absolutely convex, absorbing and closed subset of E'_β is a neighbourhood of zero). In fact (an equivalent condition [27, 23.7]), E is distinguished if and only if E is large in $(E'', \sigma(E'', E'))$. Recall also that a subspace F of a locally convex space G is *large* in G if every bounded subset of G is contained in the closure in G of some bounded subset of F .

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