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Examples of Nondistinguished Function Spaces $C_p(X)$

In the pointwise topology, familiar function spaces $C_p(\beta\mathbb{N})$, $C_p(\mathbb{R})$, $C_p[0, 1]$, and $C_p(\text{Cantor set})$ are not distinguished.

Keywords: Distinguished locally convex space, pointwise topology, strongest locally convex topology, function spaces.

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