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Polish groups involving S_{∞}

Say that a Polish group G involves a Polish group H iff there is a closed subgroup G_0 of G and a closed normal subgroup N of G_0 such that $G_0/N \cong H$. The group S_∞ is the Polish group of (full-support) permutations of \mathbb{N} . We show that the non-Archimedean Polish groups involving S_∞ has a deep and interesting theory, with several formulations that are equivalent. We use this theory to show that the non-Archimedean Polish groups which classify $=^+$ are exactly those which involve S_∞ .