COVERING A POLISH GROUP BY TRANSLATES OF A NOWHERE DENSE SET

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Abstract. We present a joint work with Witold Marciszewski.

We show that, for every nonlocally compact Polish group $G$ with a left-invariant complete metric $\rho$, we have $\text{cov}_G = \text{cov}(M)$. Here, $\text{cov}_G$ is the minimal number of translates of a fixed closed nowhere dense subset of $G$, which is needed to cover $G$, and $\text{cov}(M)$ is the minimal cardinality of a cover of the real line $\mathbb{R}$ by meagre sets.

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