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Proper group actions and uniform equicontinuity

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Let G be locally compact Hausdorff group. A G -space X is called *proper* if each point $x \in X$ has a so called *small* neighborhood U , i.e., for every point $y \in X$ there exists a neighborhood V such that the set $\langle U, V \rangle := \{g \in G \mid gU \cap V \neq \emptyset\}$ has compact closure in G .

In the talk we shall discuss the long time stated open problem about existence of a G -invariant metric on a metrizable proper G -space and present some related new results.