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8. Analysis

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On a class of special Namioka spaces

Following [HJT], a space X is called *Namioka space* if for every separately continuous function $f : X \times Y \to M$ where Y is compact and M metric there exists a dense G_δ $A \subset X$ s. t. f is continuous at each point of $A \times Y$. X is called a *special Namioka* if each its perfect irreducible preimage is Namioka. **Theorem** *Any Baire strict p-space is special Namioka.* **Corollary** (cf [SR]) *Metric Baire spaces are special Namioka* **Corollary** *Let* $(G, +)$ *be a group endowed with a topology which is Baire and Moore and such that* $+$ *is separately continuous. Then* $+$ *is jointly continuous.*

References: [HJT] R. Hansel, J. Jayne, M. Talagrand, First class selectors. .. , *J. Reine Ungewandte Mathematik*, **361** (1985), 201-220. [SR] J. Saint Raymond, Jeux topologique et espaces de Namioka, *Proc. Amer. Math. Soc.* **87** (1983), 499-504.