Fréchet-like properties and almost disjoint families.

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Abstract

We study the relationship between \( \alpha_3 \) properties and strong Fréchet-like properties in \( \Psi \)-spaces associated to almost disjoint families. In particular, we will prove that under some mild assumptions (e.g. \( c \leq \aleph_2 \)) there is an almost disjoint family \( \mathcal{A} \) such that \( \Psi(\mathcal{A}) \) is Fréchet, \( \alpha_3 \) and not bisequential.