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Strongly base-paracompact spaces

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Abstract: A space X is said to be strongly base-paracompact if there is a basis \mathcal{B} for X with $|\mathcal{B}| = w(X)$ such that every open cover of X has a star-finite open refinement by members of \mathcal{B} . Strongly paracompact spaces which are strongly base-paracompact are studied. Strongly base-paracompact spaces are shown have a family of functions \mathcal{F} with cardinality equal to the weight such that every open cover has a locally finite partition of unity subordinated to it from \mathcal{F} .

Keywords: base-paracompact, strongly base-paracompact, partition of unity, Lindelöf spaces

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