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Embedding into discretely absolutely star-Lindelöf spaces

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Abstract: A space X is discretely absolutely star-Lindelöf if for every open cover \mathcal{U} of X and every dense subset D of X , there exists a countable subset F of D such that F is discrete closed in X and $St(F, \mathcal{U}) = X$, where $St(F, \mathcal{U}) = \bigcup\{U \in \mathcal{U} : U \cap F \neq \emptyset\}$. We show that every Hausdorff star-Lindelöf space can be represented in a Hausdorff discretely absolutely star-Lindelöf space as a closed subspace.

Keywords: normal, star-Lindelöf, centered-Lindelöf

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