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Notes on cfp -covers

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Abstract: The main purpose of this paper is to establish general conditions under which T_2 -spaces are compact-covering images of metric spaces by using the concept of cfp -covers. We generalize a series of results on compact-covering open images and sequence-covering quotient images of metric spaces, and correct some mapping characterizations of g -metrizable spaces by compact-covering σ -maps and $mssc$ -maps.

Keywords: cfp -covers, compact-covering maps, metrizable spaces, g -metrizable spaces, σ -maps, $mssc$ -maps

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