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Closed mapping theorems on k -spaces with point-countable k -networks

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Abstract: We prove some closed mapping theorems on k -spaces with point-countable k -networks. One of them generalizes Lašnev's theorem. We also construct an example of a Hausdorff space Ur with a countable base that admits a closed map onto metric space which is not compact-covering. Another our result says that a k -space X with a point-countable k -network admitting a closed surjection which is not compact-covering contains a closed copy of Ur .

Keywords: k -space, k -network, closed map, compact-covering map

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