

ON T_1 - AND T_2 -PRODUCTABLE COMPACT SPACES

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We prove that if there exists a continuous surjection from a metric compact space X onto a product $X \times T$ where T is a T_1 second countable topological space which has the cardinality of the continuum then there exists a surjection from X onto the product $X \times [0, 1]$ where the interval $[0, 1]$ is equipped with the usual Euclidean topology.

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