Yoshio Tanaka *Products of k-spaces, and questions*

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Abstract: As is well-known, every product of a locally compact space with a k-space is a k-space. But, the product of a separable metric space with a k-space need not be a k-space. In this paper, we consider conditions for products to be k-spaces, and pose some related questions.

Keywords: k-space, sequential space, strongly Fréchet space, bi-k-space, strongly

sequential space, Tanaka space

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