## A.V. Arhangel'skii, I.V. Yaschenko Relatively compact spaces and separation properties

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**Abstract:** We consider the property of relative compactness of subspaces of Hausdorff spaces. Several examples of relatively compact spaces are given. We prove that the property of being a relatively compact subspace of a Hausdorff spaces is strictly stronger than being a regular space and strictly weaker than being a Tychonoff space.

**Keywords:** compact space, separation property, extension

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