

A construction of a compact metric space
from a compact Hausdorff space

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The Wallman representation of a lattice is a generalization of the Stone representation of a Boolean algebra. It yields a compact T_1 space from a purely algebraic object.

I will outline a method of using the Wallman representation and countable elementary submodels to construct, given a compact Hausdorff space X , a compact metric space having many of the same properties. I will discuss examples of various such properties that the metric space has in common with the original space X .