

**A CATEGORICAL PROPERTY OF
THE STONE–ČECH COMPACTIFICATION***R. B. Beshimov*

We study some categorical properties of the functor O_β of weakly additive functionals acting in the category Tych of the Tychonoff spaces and their continuous mappings. We show that O_β preserves the weight of infinite-dimensional Tychonoff spaces, the singleton, and the empty set, and that O_β is monomorphic and continuous in the sense of T. Bannakh, takes every perfect mapping to an epimorphism, and preserves intersections of functionally closed sets in a Tychonoff space.

Key words and phrases: weakly additive functional, functor, weight.

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