

- ▶ MARCO ABBADINI, IVAN DI LIBERTI, *Jónsson-Tarski duality beyond dimension 0*. Department of Mathematics, Università degli Studi di Salerno, Via Giovanni Paolo II, 132 - 84084 Fisciano (SA), Italy.  
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In 1951, Jónsson and Tarski obtained a representation theorem of modal algebras. A modern formulation is that the category of modal algebras is dually equivalent to the category of coalgebras for the Vietoris endofunctor over Stone spaces.

In the past years there has been a growing interest in analogues of Jónsson-Tarski duality in the larger settings of compact Hausdorff spaces and of stably compact spaces [2, 4, 3]. Our main result is that the category of coalgebras for the Vietoris functor on compact Hausdorff spaces is dually equivalent to a variety of infinitary algebras. For this, instead of working with the set of clopen subsets of a Stone space, we work with the set of continuous  $[0, 1]$ -valued functions on a compact Hausdorff space. We deliver analogous results for the upper, lower and convex Vietoris endofunctors on stably compact spaces.

This abstract is based on [1].

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