

EMBEDDINGS INTO $\mathcal{P}(\mathbb{N})/\text{fin}$ AND EXTENSION
OF AUTOMORPHISMS

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Abstract

Given a Boolean algebra \mathbb{B} and an embedding $e : \mathbb{B} \rightarrow \mathcal{P}(\mathbb{N})/\text{fin}$ we consider the possibility of extending each or some automorphism of \mathbb{B} to the whole $\mathcal{P}(\mathbb{N})/\text{fin}$. Among other things, we show that for a wide class of Boolean algebras there are embeddings for which no non-trivial automorphism can be extended.

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