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$\in$-*representation and set-prolongations*

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Abstract: By an $\in$-representation of a relation we mean its isomorphic embedding to $\mathbb{E} = \{\langle x, y\rangle; x \in y\}$. Some theorems on such a representation are presented. Especially, we prove a version of the well-known theorem on isomorphic representation of extensional and well-founded relations in $\mathbb{E}$, which holds in Zermelo-Fraenkel set theory. This our version is in Zermelo-Fraenkel set theory false. A general theorem on a set-prolongation is proved; it enables us to solve the task of the representation in question.

Keywords: isomorphic representation, extensional relation, well-founded relation, set-prolongation
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