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Subobjects of the successive power objects in the topos $G\text{-Set}$. (English)

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Let G be a group and let M be an object of the topos $G\text{-Set}$. We prove that an object X of the category $G\text{-Set}$ is isomorphic to some subobject of one of the objects $P(M)$, $P(P(M))$, $P(P(P(M)))$, ... if and only if

$$\text{card}X < \sup\{\text{card}P(M), \text{card}P(P(M)), \text{card}P(P(P(M))), \dots\}$$

and $\{g \in G : \forall m \in M gm = m\} \subseteq \{g \in G : \forall x \in X gx = x\}$.

Keywords : power objects; topos

Classification :

***18B25** Topoi

03G30 Categorical logic

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