

t2_exchsort (TMd-
MQzkyoS4DAQJhfYNe4v2J6MTt1EH6sWW)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (\neg (\neg X0 \in X1) \wedge ((X0 \neq X1) \wedge (\neg X1 \in X0)))) \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (\forall X2. \\ & (v3_ordinal1 X2) \Rightarrow (\forall X3.(v3_ordinal1 X3) \Rightarrow (\neg (X0 \in X1) \wedge ((\\ & X2 \in X3) \wedge ((\neg (X2 \neq X0) \wedge ((X2 \neq X1) \wedge ((X3 \neq X0) \wedge (X3 \neq X1)))) \wedge ((\neg (X2 \in X0) \wedge \\ & (X3 = X0)) \wedge ((\neg (X2 \in X0) \wedge (X3 = X1)) \wedge ((\neg (X2 = X0) \wedge (X3 \in X1)) \wedge ((\neg (X2 = \\ & X0) \wedge (X3 = X1)) \wedge ((\neg (X2 = X0) \wedge (X1 \in X3)) \wedge ((\neg (X0 \in X2) \wedge (X3 = X1)) \wedge (\neg \\ & (X2 = X1) \wedge (X1 \in X3)))))))))))))) \end{aligned}$$