

t7_zfmodel1

(TMKR4fuuK7KvWgFgRTzFrN1EgpxW8M2PqJZ)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Let $r2_zf_model : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_zf_model : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $r2_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((v1_ordinal1 X0) \Rightarrow ((r2_zf_model \\ X0 k9_zf_model) \Leftrightarrow (\exists X1. (m1_subset_1 X1 X0) \wedge ((X1 \neq k1_xboole_0) \wedge \\ (\forall X2. (m1_subset_1 X2 X0) \Rightarrow (\neg (X2 \in X1) \wedge (\forall X3. (m1_subset_1 \\ X3 X0) \Rightarrow (\neg (r2_xboole_0 X2 X3) \wedge (X3 \in X1)))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (5)$$

Assume the following.

$$\forall X0. (v1_ordinal1 X0) \Leftrightarrow (\forall X1. (X1 \in X0) \Rightarrow (r1_tarski X1 X0)) \quad (6)$$

Theorem 1

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((v1_ordinal1 X0) \Rightarrow ((r2_zf_model \\ X0 k9_zf_model) \Leftrightarrow (\exists X1. (X1 \in X0) \wedge ((X1 \neq k1_xboole_0) \wedge (\forall X2. \\ \neg (X2 \in X1) \wedge (\forall X3. \neg (r2_xboole_0 X2 X3) \wedge (X3 \in X1))))))) \end{aligned}$$