

t15_taxonom1
(TMF_{x3}KaadWFvTP4w3mMCbunM7s6Fo7gskBR)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_partit1 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k10_eqrel_1 : \iota \Rightarrow \iota$ be given. Let $m2_taxonom1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_taxonom1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ (k1_partit1 X0))) \Rightarrow ((X1 = k2_tarski (k1_tarski X0) (k10_eqrel_1 \\ X0)) \Rightarrow (m1_taxonom1 X1 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ (k1_partit1 X0))) \Rightarrow ((m2_taxonom1 X1 X0) \Leftrightarrow ((m1_taxonom1 X1 X0) \wedge \\ ((k1_tarski X0 \in X1) \wedge (k10_eqrel_1 X0 \in X1)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (X2 = k2_tarski X0 X1) \Leftrightarrow (\forall X3. \\ (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ (k1_partit1 X0))) \Rightarrow ((X1 = k2_tarski (k1_tarski X0) (k10_eqrel_1 \\ X0)) \Rightarrow (m2_taxonom1 X1 X0))) \end{aligned}$$