

t13_hallmar1 (TMSLWg-
GUGtP8U716mGFq5Sn9hpo7M2KFrMa)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_hallmar1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_hallmar1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. k2_tarski X0 X0 = k1_tarski X0 \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (v1_finset_1 X0) \Rightarrow (\forall X1. (m2_finseq_1 X1 (k1_zfmisc_1 \\ X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. \forall X4. \\ k1_hallmar1 X0 (k2_hallmar1 X0 X1 X2 X3) (k6_subset_1 X4 (k1_tarski \\ X2)) = k1_hallmar1 X0 X1 (k6_subset_1 X4 (k1_tarski X2)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \neg(\neg X0 \in X2) \wedge ((\neg X1 \in X2) \wedge (X2 \neq k4_xboole_0 \\ (k2_xboole_0 X2 (k2_tarski X0 X1)) (k2_tarski X0 X1))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0. (v1_finset_1 X0) \Rightarrow (\forall X1. (m2_finseq_1 X1 (k1_zfmisc_1 \\ X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. \forall X4. \\ (\neg X2 \in X4) \Rightarrow (k1_hallmar1 X0 X1 X4 = k1_hallmar1 X0 (k2_hallmar1 X0 \\ X1 X2 X3) X4)))) \end{aligned}$$