

t16_fomodel2

(TMYT54vdxHiWh78oaFLmxxgcCEZLDFubyYM)

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Let $v6_struct_0 : \iota \Rightarrow o$ be given. Let $v11_fomodel1 : \iota \Rightarrow o$ be given. Let $l1_fomodel1 : \iota \Rightarrow o$ be given. Let $v4_fomodel2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k15_fomodel1 : \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k33_fomodel2 : \iota \Rightarrow \iota$ be given. Let $k27_fomodel2 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v3_fomodel2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v6_struct_0 X0) \wedge ((v11_fomodel1 X0) \wedge (l1_fomodel1 X0))) \Rightarrow (k33_fomodel2 X0 = k27_fomodel2 X0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v6_struct_0 X0) \wedge ((v11_fomodel1 X0) \wedge (l1_fomodel1 X0))) \Rightarrow & (k27_fomodel2 X0 = \text{ReplSep}(\text{toset}(\lambda X1 : \iota. m2_subset_1 \\ X1 (k3_finseq_2 (k15_fomodel1 X0)) (k6_subset_1 (k3_finseq_2 & (k15_fomodel1 X0)) (k1_tarski k1_xboole_0)))) (\lambda X1 : \iota. \exists X2. \\ (v7_ordinal1 X2) \wedge (v3_fomodel2 X1 X0 X2)) (\lambda X1 : \iota. X1)) & \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0.((\neg v6_struct_0 X0) \wedge ((v11_fomodel1 X0) \wedge (l1_fomodel1 X0))) \Rightarrow (\forall X1. (m2_subset_1 X1 (k3_finseq_2 (k15_fomodel1 X0)) (k6_subset_1 (k3_finseq_2 (k15_fomodel1 X0)) (k1_tarski k1_xboole_0))) \Rightarrow ((v4_fomodel2 X1 X0) \Leftrightarrow (\exists X2. (v7_ordinal1 X2) \wedge (v3_fomodel2 X1 X0 X2)))) \quad (3)$$

Theorem 1

$$\forall X0.((\neg v6_struct_0 X0) \wedge ((v11_fomodel1 X0) \wedge (l1_fomodel1 X0))) \Rightarrow (\forall X1. ((v4_fomodel2 X1 X0) \wedge (m2_subset_1 X1 (k3_finseq_2 (k15_fomodel1 X0)) (k6_subset_1 (k3_finseq_2 (k15_fomodel1 X0)) (k1_tarski k1_xboole_0)))) \Rightarrow (X1 \in k33_fomodel2 X0))$$