

t12_petri

(TMU2b3R6M8psmRBtetoga8uQQ3uXwCaPX7T)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v11_struct_0 : \iota \Rightarrow o$ be given. Let $v2_petri : \iota \Rightarrow o$ be given. Let $v3_petri : \iota \Rightarrow o$ be given. Let $l1_petri : \iota \Rightarrow o$ be given. Let $k9_petri : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_subset_1 : \iota \Rightarrow \iota$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m1_petri : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u2_petri : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((\neg v11_struct_0 X0) \wedge ((v2_petri \\ &X0) \wedge ((v3_petri X0) \wedge (l1_petri X0)))))) \Rightarrow (\forall X1. (m1_subset_1 \\ &X1 (k1_zfmisc_1 (u4_struct_0 X0))) \Rightarrow (\forall X2. (X2 \in k9_petri \\ &X0 X1) \Leftrightarrow (\exists X3. (m1_petri X3 (u4_struct_0 X0) (u1_struct_0 \\ &X0) (u2_petri X0)) \wedge (\exists X4. (m1_subset_1 X4 (u4_struct_0 X0)) \wedge \\ &((X4 \in X1) \wedge (X3 = k4_tarski X4 X2))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (2)$$

Assume the following.

$$\forall X0. v1_xboole_0 (k1_subset_1 X0) \quad (3)$$

Assume the following.

$$\forall X0. m1_subset_1 (k1_subset_1 X0) (k1_zfmisc_1 X0) \quad (4)$$

Assume the following.

$$k1_xboole_0 = the (\lambda X0 : \iota. v1_xboole_0 X0) \quad (5)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \quad (6)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((\neg v11_struct_0 X0) \wedge ((v2_petri X0) \wedge (v3_petri X0) \wedge (l1_petri X0)))) \Rightarrow (k9_petri X0 (k1_subset_1 (u4_struct_0 X0)) = k1_xboole_0)$$