

t19_ospace
(TMJiopXz4Dwfib1a1EihuhCYZeNmrQyknKt)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_ospace : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_ospace : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k3_ospace : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_subset_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$k5_struct_0 \ k2_ospace = np_1 \tag{1}$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k1_zfmisc_1 \ X0) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 (k3_ospace \ X0 \ X1) (u1_struct_0 \ k2_ospace) \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 \ X1 \ (u1_struct_0 \ k2_ospace)) \Rightarrow \\ & (\forall X2. (m1_subset_1 \ X2 \ (k1_zfmisc_1 \ X0)) \Rightarrow (((X1 = k5_struct_0 \\ & k2_ospace) \Rightarrow (k4_ospace \ X0 \ X1 \ X2 = X2)) \wedge ((X1 = k4_struct_0 \ k2_ospace) \Rightarrow \\ & (k4_ospace \ X0 \ X1 \ X2 = k1_subset_1 \ X0)))) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. ((X1 \in X0) \Rightarrow (k3_ospace \ X0 \ X1 = k5_struct_0 \ k2_ospace)) \wedge ((\neg X1 \in X0) \Rightarrow (k3_ospace \ X0 \ X1 = k4_struct_0 \ k2_ospace)) \tag{5}$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 \ X0) \Rightarrow ((m1_subset_1 \ X1 \ X0) \Leftrightarrow (X1 \in X0))) \wedge ((v1_xboole_0 \ X0) \Rightarrow ((m1_subset_1 \ X1 \ X0) \Leftrightarrow (v1_xboole_0 \ X1))) \tag{6}$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(k4_bspace X0 (k5_struct_0 k2_bspace) X1 = X1)$$