

t16_sgraph1

(TMNnquLPstXJUHhtjMeoWJf3Tov7m7bMJJa2)

October 27, 2020

Let $g1_sgraph1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_subset_1 : \iota \Rightarrow \iota$ be given. Let $k2_sgraph1 : \iota \Rightarrow \iota$ be given. Let $k3_sgraph1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (2)$$

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.

$$\begin{aligned} \forall X0.k3_sgraph1 X0 = \text{ReplSep2} (\text{toset} (\lambda X1 : \iota.(v1_finset_1 \\ X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) (\lambda X1 : \iota.\text{toset} (\lambda X2 : \\ \iota.(v1_finset_1 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_sgraph1 \\ X1)))))) (\lambda X1 : \iota.\lambda X2 : \iota.\text{True}) (\lambda X1 : \iota.\lambda X2 : \iota. \\ g1_sgraph1 X1 X2) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v1_finset_1 X0) \quad (6)$$

Theorem 1

$$\forall X0.g1_sgraph1 k1_xboole_0 (k1_subset_1 (k2_sgraph1 k1_xboole_0)) \in k3_sgraph1 X0$$