

l42_normform

(TMa7DTcYHpuULM9REBmrDJPL4J9FietLqES)

October 27, 2020

Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_finsub_1 : \iota \Rightarrow \iota$ be given. Let $k7_normform : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_normform : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v4_finsub_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v4_finsub_1 X0)) \Rightarrow (k1_xboole_0 \in X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. (\neg v1_xboole_0 (k5_finsub_1 X0)) \wedge (v4_finsub_1 (k5_finsub_1 X0)) \quad (3)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. v4_finsub_1 (k5_finsub_1 X0) \quad (5)$$

Assume the following.

$$k1_xboole_0 = the (\lambda X0 : \iota. v1_xboole_0 X0) \quad (6)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0. k1_xboole_0 \in ReplSep (toset (\lambda X1 : \iota. m1_subset_1 \\ & \quad X1 (k5_finsub_1 (k7_normform X0)))) (\lambda X1 : \iota. \forall X2. (\\ & \quad m2_subset_1 X2 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) \\ & \quad (k7_normform X0)) \Rightarrow (\forall X3. (m2_subset_1 X3 (k2_zfmisc_1 (\\ & \quad k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform X0)) \Rightarrow (((X2 \in X1) \wedge \\ & \quad ((X3 \in X1) \wedge (r1_normform (k5_finsub_1 X0) (k5_finsub_1 X0) X2 X3))) \Rightarrow \\ & \quad (X2 = X3)))) (\lambda X1 : \iota. X1) \end{aligned}$$