

t19_roughs_1

(TMLjDcEK6TauNztS9V3F42yGCo7H57pMtHg)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v3_roughs_1 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $k4_roughs_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_struct_0 : \iota \Rightarrow \iota$ 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 $k3_roughs_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. m1_subset_1 \ k1_xboole_0 \ (k1_zfmisc_1 \ X0) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 \ X0) \wedge ((v3_roughs_1 \ X0) \wedge (l1_orders_2 \ X0))) \Rightarrow (k3_roughs_1 \ X0 \ (k1_struct_0 \ X0) = k1_xboole_0) \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 \ X0) \wedge ((v3_roughs_1 \ X0) \wedge (l1_orders_2 \ X0))) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (u1_struct_0 \ X0))) \Rightarrow ((X1 = k3_roughs_1 \ X0 \ X1) \Leftrightarrow (X1 = k4_roughs_1 \ X0 \ X1))) \quad (3)$$

Assume the following.

$$\forall X0. (l1_orders_2 \ X0) \Rightarrow (l1_struct_0 \ X0) \quad (4)$$

Assume the following.

$$\forall X0. (l1_struct_0 \ X0) \Rightarrow (k1_struct_0 \ X0 = k1_xboole_0) \quad (5)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 \ X0) \wedge ((v3_roughs_1 \ X0) \wedge (l1_orders_2 \ X0))) \Rightarrow (k4_roughs_1 \ X0 \ (k1_struct_0 \ X0) = k1_xboole_0)$$