

t30_borsuk_6 (TMaJFsaduTQX- TaYQQnzp7t3jAUmhQ6M9mue)

October 27, 2020

Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v2_compts_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarSKI X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. r1_tarSKI k1_xboole_0 X0 \quad (2)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v1_xboole_0 X1) \Rightarrow (v2_compts_1 X1 X0))) \quad (4)$$

Theorem 1

$$\forall X0. (l1_pre_topc X0) \Rightarrow ((v1_xboole_0 k1_xboole_0) \wedge ((v2_compts_1 k1_xboole_0 X0) \wedge (m1_subset_1 k1_xboole_0 (k1_zfmisc_1 (u1_struct_0 X0))))))$$