

t4_compact1 (TMKzWMbRZrU- tAHKJ8Q6Z7G9hmjJJWfBcfLM)

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Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_compact1 : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_compts_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 (k2_xboole_0 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow (l1_struct_0 X0) \quad (2)$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow ((v1_pre_topc (k1_compact1 X0)) \wedge (l1_pre_topc (k1_compact1 X0))) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_pre_topc X0) \Rightarrow (\forall X1. ((v1_pre_topc X1) \wedge (\\ & l1_pre_topc X1)) \Rightarrow ((X1 = k1_compact1 X0) \Leftrightarrow ((u1_struct_0 X1 = k1_ordinal1 \\ & (k2_struct_0 X0)) \wedge (u1_pre_topc X1 = k2_xboole_0 (u1_pre_topc \\ & X0) (ReplSep (toset (\lambda X2 : \iota. m1_subset_1 X2 (k1_zfmisc_1 (\\ & u1_struct_0 X0)))) (\lambda X2 : \iota. (v3_pre_topc X2 X0) \wedge (v2_compts_1 \\ & (k3_subset_1 (u1_struct_0 X0) X2) X0)) (\lambda X2 : \iota. k2_xboole_0 \\ & X2 (k6_domain_1 (k1_zfmisc_1 (u1_struct_0 X0) (k2_struct_0 X0)))))))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. (l1_struct_0 X0) \Rightarrow (k2_struct_0 X0 = u1_struct_0 X0) \quad (5)$$

Assume the following.

$$\forall X0. k1_ordinal1 X0 = k2_xboole_0 X0 (k1_tarski X0) \quad (6)$$

Theorem 1

$$\forall X0. (l1_pre_topc\ X0) \Rightarrow (r1_tarSKI\ (k2_struct_0\ X0)\ (k2_struct_0\ (k1_compact1\ X0)))$$