t30_bspace (TMKnDE1KKfrUtmSBFJCsAGJ5ZHzu36g1Y75)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k7\_bspace : \iota \Rightarrow \iota$ be given. Let $k9\_bspace : \iota \Rightarrow \iota$ be given. Let $v3\_card\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k8\_bspace : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.k9\_bspace\ X0 = k8\_bspace\ X0 \tag{3}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\neg v1\_xboole\_0\ (k8\_bspace\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.m1\_subset\_1\ (k9\_bspace\ X0)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k7\_bspace\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.k8\_bspace\ X0 = ReplSep\ (toset\ (\lambda X1 : \iota.m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))\ (\lambda X1 : \iota.v3\_card\_1\ X1\ np\_\_1)\ (\lambda X1 : \iota.X1) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \Rightarrow (v1\_xboole\_0\ X1)) \tag{7}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow((m2\_subset\_1\ X1\ (u1\_struct\_0\ (k7\_bspace\ X0))\ (k9\_bspace\ X0))\Rightarrow(v3\_card\_1\ X1\ np\_\_1)))$$