t2_scmringi (TMWte5Uffm4aUhi7xe3WKEpjWmKPfvFDpY3)

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Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k7\_card\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_8 : \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_scmringi : \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_scmringi : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k7\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k5\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (k7\_partfun1\ X0\ (k12\_finseq\_1\ X0\ X1)\ np\_\_1 = X1)) \tag{1}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k5\_xtuple\_0\ (k3\_xtuple\_0\ X0\ X1\ X2) = X1 \tag{3}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k4\_ordinal1) \wedge (v3\_ordinal1\ k4\_ordinal1) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X1\ X0)) \Rightarrow (m2\_finseq\_1\ (k12\_finseq\_1\ X0\ X1)\ X0) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow(\forall X1.\ (m1\_subset\_1\ X1\ (k1\_scmringi\ X0))\Rightarrow((\exists X2.(m1\_subset\_1\ X2\ k5\_numbers)\wedge(\exists X3.(m2\_subset\_1\ X3\ k4\_ordinal1\ (k7\_card\_1\ np\_\_8))\wedge(X1 = k3\_xtuple\_0\ X3\ (k12\_finseq\_1\ k5\_numbers\ X2)\ k1\_xboole\_0)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ k5\_numbers)\Rightarrow((X2 = k4\_scmringi\ X0\ X1)\Leftrightarrow(\exists X3.(m2\_finseq\_1\ X3\ k5\_numbers)\wedge((X3 = k5\_xtuple\_0\ X1)\wedge(X2 = k7\_partfun1\ k5\_numbers\ X3\ np\_\_1)))))))) \tag{6}$$

Theorem 1

$$\forall X0.(m2\_subset\_1\ X0\ k4\_ordinal1\ (k7\_card\_1\ np\_\_8))\Rightarrow(\forall X1.\ ((\neg v2\_struct\_0\ X1)\wedge(l1\_struct\_0\ X1))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_scmringi\ X1))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ k5\_numbers)\Rightarrow((X2 = k3\_xtuple\_0\ X0\ (k12\_finseq\_1\ k5\_numbers\ X3)\ k1\_xboole\_0)\Rightarrow(k4\_scmringi\ X1\ X2 = X3)))))$$