t1_scmringi (TMZ89GdH59mX6tsvpbtbGY6FeZBWfU7jc2s)

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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 $k2\_scm\_inst : \iota$ be given. Let $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k2\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_scmringi : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_scmringi : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $np\_\_2 : \iota$ be given. Let $k2\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ X0) \Rightarrow ((k7\_partfun1\ X0\ (k2\_finseq\_4\ X0\ X1\ X2)\ np\_\_1 = X1) \wedge (k7\_partfun1\ X0\ (k2\_finseq\_4\ X0\ X1\ X2)\ np\_\_2 = X2))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k2\_xtuple\_0\ (k3\_xtuple\_0\ X0\ X1\ X2) = X2 \tag{2}$$

Assume the following.

$$\neg v1\_xboole\_0\ k2\_scm\_inst \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge (l1\_struct\_0\ X0)) \wedge (m1\_subset\_1\ X1\ (k1\_scmringi\ X0))) \Rightarrow (m1\_subset\_1\ (k3\_scmringi\ X0\ X1)\ k2\_scm\_inst) \tag{4}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow(\forall X1.\ (m1\_subset\_1\ X1\ (k1\_scmringi\ X0))\Rightarrow((\exists X2.(m1\_subset\_1\ X2\ k2\_scm\_inst)\wedge(\exists X3.(m1\_subset\_1\ X3\ k2\_scm\_inst)\wedge(\exists X4.\ (m2\_subset\_1\ X4\ k4\_ordinal1\ (k7\_card\_1\ np\_\_8))\wedge(X1 = k3\_xtuple\_0\ X4\ k1\_xboole\_0\ (k2\_finseq\_4\ k2\_scm\_inst\ X2\ X3)))))\Rightarrow(\forall X2.\ (m1\_subset\_1\ X2\ k2\_scm\_inst)\Rightarrow((X2 = k3\_scmringi\ X0\ X1)\Leftrightarrow(\exists X3.\ (m2\_finseq\_1\ X3\ k2\_scm\_inst)\wedge((X3 = k2\_xtuple\_0\ X1)\wedge(X2 = k7\_partfun1\ k2\_scm\_inst\ X3\ np\_\_2)))))))) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow(\forall X1.\ (m1\_subset\_1\ X1\ (k1\_scmringi\ X0))\Rightarrow((\exists X2.(m1\_subset\_1\ X2\ k2\_scm\_inst)\wedge(\exists X3.(m1\_subset\_1\ X3\ k2\_scm\_inst)\wedge(\exists X4.\ (m2\_subset\_1\ X4\ k4\_ordinal1\ (k7\_card\_1\ np\_\_8))\wedge(X1 = k3\_xtuple\_0\ X4\ k1\_xboole\_0\ (k2\_finseq\_4\ k2\_scm\_inst\ X2\ X3)))))\Rightarrow(\forall X2.\ (m1\_subset\_1\ X2\ k2\_scm\_inst)\Rightarrow((X2 = k2\_scmringi\ X0\ X1)\Leftrightarrow(\exists X3.\ (m2\_finseq\_1\ X3\ k2\_scm\_inst)\wedge((X3 = k2\_xtuple\_0\ X1)\wedge(X2 = k7\_partfun1\ k2\_scm\_inst\ X3\ np\_\_1)))))))) \tag{6}$$

Theorem 1

$$\forall X0.(m2\_subset\_1\ X0\ k4\_ordinal1\ (k7\_card\_1\ np\_\_8))\Rightarrow(\forall X1.\ ((\neg v2\_struct\_0\ X1)\wedge(l1\_struct\_0\ X1))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_scmringi\ X1))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ k2\_scm\_inst)\Rightarrow(\forall X4.(m1\_subset\_1\ X4\ k2\_scm\_inst)\Rightarrow((X2 = k3\_xtuple\_0\ X0\ k1\_xboole\_0\ (k2\_finseq\_4\ k2\_scm\_inst\ X3\ X4))\Rightarrow((k2\_scmringi\ X1\ X2 = X3)\wedge(k3\_scmringi\ X1\ X2 = X4)))))))$$