t3_sprect_5 (TM-RMtQ2FHKUYmWPfvCBZLzCaMfJKZA9Ym4p)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_finseq\_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ X0) \Rightarrow (\forall X3.(m2\_finseq\_1\ X3\ X0) \Rightarrow (((X1 \in k10\_xtuple\_0\ X3) \wedge (X2 \in k10\_xtuple\_0\ (k1\_finseq\_5\ X0\ X3\ X1))) \Rightarrow (k1\_finseq\_5\ X0\ (k1\_finseq\_5\ X0\ X3\ X1)\ X2 = k1\_finseq\_5\ X0\ X3\ X2))))) \tag{1}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ X0) \Rightarrow (\forall X3.((X3 \in k10\_xtuple\_0\ X2) \wedge ((X1 \in k10\_xtuple\_0\ X2) \wedge (r1\_xxreal\_0\ (k4\_finseq\_4\ X2\ X3)\ (k4\_finseq\_4\ X2\ X1)))) \Rightarrow (X3 \in k10\_xtuple\_0\ (k1\_finseq\_5\ X0\ X2\ X1))))) \tag{2}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ X0) \Rightarrow ((X1 \in k10\_xtuple\_0\ X2) \Rightarrow (k3\_finseq\_1\ (k1\_finseq\_5\ X0\ X2\ X1) = k4\_finseq\_4\ X2\ X1)))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Leftrightarrow (m1\_finseq\_1\ X1\ X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1\_xboole\_0\ X0) \wedge (m1\_finseq\_1\ X1\ X0)) \Rightarrow (m2\_finseq\_1\ (k1\_finseq\_5\ X0\ X1\ X2)\ X0) \tag{5}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m2\_finseq\_1\ X1\ X0)\Rightarrow (\forall X2.(m1\_subset\_1\ X2\ X0)\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ X0)\Rightarrow (((X2 \in k10\_xtuple\_0\ X1)\wedge((X3 \in k10\_xtuple\_0\ X1)\wedge(r1\_xxreal\_0 (k4\_finseq\_4\ X1\ X2)\ (k4\_finseq\_4\ X1\ X3))))\Rightarrow(k4\_finseq\_4\ (k1\_finseq\_5 X0\ X1\ X3)\ X2 = k4\_finseq\_4\ X1\ X2)))))$$