t56_finseq_5 (TMSmHxGt-DmTEZ6o2nH9NijguVU6X19pJ6Eb)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_funct\_1 : \iota \Rightarrow o$ be given. Let $k2\_finseq\_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k2\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k4\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_rfinseq : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ X0) \Rightarrow (\neg(X1 \in k10\_xtuple\_0\ X2) \wedge (\forall X3.(m1\_subset\_1\ X3\ k5\_numbers) \Rightarrow (\neg(k2\_nat\_1\ X3\ np\_\_1 = k4\_finseq\_4\ X2\ X1) \wedge (k2\_finseq\_5\ X0\ X2\ X1 = k2\_rfinseq\ X0\ X3\ X2))))))) \tag{1}$$

Assume the following.

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

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(\neg v1\_xboole\_0\ X1) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ X1) \Rightarrow ((v2\_funct\_1\ X2) \Rightarrow (v2\_funct\_1\ (k2\_rfinseq\ X1\ X0\ X2))))) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (v7\_ordinal1\ X0) \tag{4}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ X0) \Rightarrow (((X1 \in k10\_xtuple\_0\ X2) \wedge (v2\_funct\_1\ X2)) \Rightarrow (v2\_funct\_1\ (k2\_finseq\_5\ X0\ X2\ X1)))))$$