t7_finseq_2 (TMKvyoreVVioL6buf8xSG65UQ2UBLGCUYDp)

October 27, 2020

Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (k2\_xboole\_0\ (k2\_finseq\_1\ X0)\ (k1\_tarski\ (k1\_nat\_1\ X0\ np\_\_1)) = k2\_finseq\_1\ (k1\_nat\_1\ X0\ np\_\_1)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X0 \in k2\_xboole\_0\ X2\ (k1\_tarski\ X1)) \Leftrightarrow ((X0 \in X2) \vee (X0 = X1)) \tag{2}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (\neg (X0 \in k2\_finseq\_1\ (k1\_nat\_1\ X1\ np\_\_1)) \wedge ((\neg X0 \in k2\_finseq\_1\ X1) \wedge (X0 \neq k1\_nat\_1\ X1\ np\_\_1))))$$