t5_jordan4 (TMP4k9NPZve582Xu55oSfzBhKQDpcWdTNqJ)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_finseq\_6 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.\forall X2.(m2\_finseq\_1\ X2\ X0) \Rightarrow ((r1\_xxreal\_0\ np\_\_1\ (k3\_finseq\_1\ X2)) \Rightarrow ((k1\_funct\_1\ (k7\_finseq\_1\ X2\ (k9\_finseq\_1\ X1))\ np\_\_1 = k1\_funct\_1\ X2\ np\_\_1) \wedge ((k1\_funct\_1\ (k7\_finseq\_1\ X2\ (k9\_finseq\_1\ X1))\ np\_\_1 = k7\_partfun1\ X0\ X2\ np\_\_1) \wedge ((k1\_funct\_1\ (k7\_finseq\_1\ (k9\_finseq\_1\ X1)\ X2)\ (k2\_nat\_1\ (k3\_finseq\_1\ X2)\ np\_\_1) = k1\_funct\_1\ X2\ (k3\_finseq\_1\ X2)) \wedge (k1\_funct\_1\ (k7\_finseq\_1\ (k9\_finseq\_1\ X1)\ X2)\ (k2\_nat\_1\ (k3\_finseq\_1\ X2)\ np\_\_1) = k7\_partfun1\ X0\ X2\ (k3\_finseq\_1\ X2)))))))) \tag{1}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m2\_finseq\_1\ X1\ X0) \Rightarrow ((v1\_finseq\_6\ X1\ X0) \Leftrightarrow (k7\_partfun1\ X0\ X1\ np\_\_1 = k7\_partfun1\ X0\ X1\ (k3\_finseq\_1\ X1)))) \tag{2}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m2\_finseq\_1\ X1\ X0) \Rightarrow (((v1\_finseq\_6\ X1\ X0) \wedge (r1\_xxreal\_0\ np\_\_1\ (k3\_finseq\_1\ X1))) \Rightarrow (k1\_funct\_1\ X1\ np\_\_1 = k1\_funct\_1\ X1\ (k3\_finseq\_1\ X1))))$$