t5_mesfunc3 (TMWeEP-awsv7bjvSN9G1TERSDw7sg7Tqq2Wb)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_prob\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_prob\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_prob\_2 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Rightarrow ((v1\_prob\_2\ X1) \Leftrightarrow (\forall X2.(v7\_ordinal1\ X2) \Rightarrow (\forall X3.(v7\_ordinal1\ X3) \Rightarrow (((X2 \in k4\_finseq\_1\ X1) \wedge (X3 \in k4\_finseq\_1\ X1)) \Rightarrow ((X2 = X3) \vee (r1\_xboole\_0\ (k1\_funct\_1\ X1\ X2)\ (k1\_funct\_1\ X1\ X3)))))))) \tag{1}$$

Assume the following.

$$\forall X0.k3\_xboole\_0\ X0\ k1\_xboole\_0 = k1\_xboole\_0 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3\_xboole\_0\ (k3\_xboole\_0\ X0\ X1)\ X2 = k3\_xboole\_0\ X0\ (k3\_xboole\_0\ X1\ X2) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_xboole\_0\ X0\ X1) \Leftrightarrow (k3\_xboole\_0\ X0\ X1 = k1\_xboole\_0) \tag{4}$$

Assume the following.

$$k1\_xboole\_0 = the\ (\lambda X0 : \iota.v1\_xboole\_0\ X0) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.k3\_xboole\_0\ X0\ X1 = k3\_xboole\_0\ X1\ X0 \tag{6}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.\forall X2.((\neg v1\_xboole\_0\ X2)\wedge((v1\_prob\_1\ X2\ X0)\wedge((v4\_prob\_1\ X2\ X0)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0))))))\Rightarrow(\forall X3.((v1\_prob\_2\ X3)\wedge(m2\_finseq\_1\ X3\ X2))\Rightarrow(\forall X4.(m2\_finseq\_1\ X4\ X2)\Rightarrow(((k4\_finseq\_1\ X4 = k4\_finseq\_1\ X3)\wedge(\forall X5.(v7\_ordinal1\ X5)\Rightarrow((X5 \in k4\_finseq\_1\ X4)\Rightarrow(k1\_funct\_1\ X4\ X5 = k3\_xboole\_0\ X1\ (k1\_funct\_1\ X3\ X5)))))\Rightarrow((v1\_prob\_2\ X4)\wedge(m2\_finseq\_1\ X4\ X2))))))$$