t40_coh_sp (TMZtEMY15Amvop24H9KxsiJJzBaq7rki1mH)

October 27, 2020

Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k20\_coh\_sp : \iota \Rightarrow \iota$ be given. Let $k19\_coh\_sp : \iota \Rightarrow \iota$ be given. Let $k16\_coh\_sp : \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17\_coh\_sp : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_coh\_sp : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{1}$$

Assume the following.

$$\forall X0.\neg v1\_xboole\_0\ (k20\_coh\_sp\ X0) \tag{2}$$

Assume the following.

$$\forall X0.k20\_coh\_sp\ X0 = ReplSep3\ (toset\ (\lambda X1 : \iota.m1\_subset\_1\ X1\ (k16\_coh\_sp\ X0)))\ (\lambda X1 : \iota.toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ (k16\_coh\_sp\ X0)))\ (\lambda X1 : \iota.\lambda X2 : \iota.toset\ (\lambda X3 : \iota.\ m1\_subset\_1\ X3\ (k19\_coh\_sp\ X0)))\ (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.((k17\_coh\_sp\ X0\ X2 = k1\_xboole\_0) \Rightarrow (k17\_coh\_sp\ X0\ X1 = k1\_xboole\_0)) \wedge (((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2\ X3\ (k17\_coh\_sp\ X0\ X1)\ (k17\_coh\_sp\ X0\ X2)) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k17\_coh\_sp\ X0\ X1)\ (k17\_coh\_sp\ X0\ X2)))))) \wedge (\forall X4.\forall X5.(k4\_tarski\ X4\ X5 \in k18\_coh\_sp\ X0\ X1) \Rightarrow (k4\_tarski\ (k1\_funct\_1\ X3\ X4)\ (k1\_funct\_1\ X3\ X5) \in k18\_coh\_sp\ X0\ X2)))))\ (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.\ k4\_tarski\ (k4\_tarski\ X1\ X2)\ X3) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k20\_coh\_sp\ X0))\Rightarrow(\exists X2.$$
$$(m1\_subset\_1\ X2\ (k19\_coh\_sp\ X0))\wedge(\exists X3.(m1\_subset\_1\ X3$$
$$(k16\_coh\_sp\ X0))\wedge(\exists X4.(m1\_subset\_1\ X4\ (k16\_coh\_sp\ X0))\wedge$$
$$((X1 = k4\_tarski\ (k4\_tarski\ X3\ X4)\ X2)\wedge(((k17\_coh\_sp\ X0\ X4 = k1\_xboole\_0)\Rightarrow$$
$$(k17\_coh\_sp\ X0\ X3 = k1\_xboole\_0))\wedge(((v1\_funct\_1\ X2)\wedge((v1\_funct\_2$$
$$X2\ (k17\_coh\_sp\ X0\ X3)\ (k17\_coh\_sp\ X0\ X4))\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1$$
$$(k2\_zfmisc\_1\ (k17\_coh\_sp\ X0\ X3)\ (k17\_coh\_sp\ X0\ X4))))))\wedge(\forall X5.$$
$$\forall X6.(k4\_tarski\ X5\ X6 \in k18\_coh\_sp\ X0\ X3)\Rightarrow(k4\_tarski\ (k1\_funct\_1$$
$$X2\ X5)\ (k1\_funct\_1\ X2\ X6) \in k18\_coh\_sp\ X0\ X4))))))))$$