t58_flang_2 (TM-SoSwK1ebHVW2tztdQEbnp7SRenmXSP3ER)

October 27, 2020

Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k8\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_flang\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_catalan2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X0))) \Rightarrow (\forall X2.(v7\_ordinal1\ X2) \Rightarrow (\forall X3.(v7\_ordinal1\ X3) \Rightarrow (\forall X4.(v7\_ordinal1\ X4) \Rightarrow (\forall X5.(v7\_ordinal1\ X5) \Rightarrow (((r1\_xxreal\_0\ X2\ X3) \wedge (r1\_xxreal\_0\ X4\ X5)) \Rightarrow (k6\_flang\_1\ X0\ (k1\_flang\_2\ X0\ X1\ X2\ X3)\ (k1\_flang\_2\ X0\ X1\ X4\ X5) = k1\_flang\_2\ X0\ X1\ (k2\_xcmplx\_0\ X2\ X4)\ (k2\_xcmplx\_0\ X3\ X5)))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k3\_catalan2\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k3\_catalan2\ X0))) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k3\_catalan2\ X0))) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k3\_catalan2\ X0))) \Rightarrow (((r1\_tarski\ X1\ X2) \wedge (r1\_tarski\ X3\ X4)) \Rightarrow (r1\_tarski\ (k6\_flang\_1\ X0\ X1\ X3)\ (k6\_flang\_1\ X0\ X2\ X4))))))) \tag{2}$$

Assume the following.

$$\forall X0.k3\_catalan2\ X0 = k8\_afinsq\_1\ X0 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X0))) \wedge ((v7\_ordinal1\ X2) \wedge (v7\_ordinal1\ X3))) \Rightarrow (m1\_subset\_1\ (k1\_flang\_2\ X0\ X1\ X2\ X3)\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X0))) \tag{4}$$

Theorem 1

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X0)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X0)))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X0)))\Rightarrow(\forall X4.(v7\_ordinal1\ X4)\Rightarrow(\forall X5.(v7\_ordinal1\ X5)\Rightarrow(\forall X6.(v7\_ordinal1\ X6)\Rightarrow(\forall X7.(v7\_ordinal1\ X7)\Rightarrow(((r1\_xxreal\_0\ X4\ X5)\wedge((r1\_xxreal\_0\ X6\ X7)\wedge((r1\_tarski\ X1\ (k1\_flang\_2\ X0\ X2\ X4\ X5))\wedge(r1\_tarski\ X3\ (k1\_flang\_2\ X0\ X2\ X6\ X7)))))\Rightarrow(r1\_tarski\ (k6\_flang\_1\ X0\ X1\ X3)\ (k1\_flang\_2\ X0\ X2\ (k2\_xcmplx\_0\ X4\ X6)\ (k2\_xcmplx\_0\ X5\ X7)))))))))))$$