t5_conmetr (TMGEPxyAmBvNpA-tRaZKYJ4jWDCv1mtbHHsW)

October 27, 2020

Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v3\_analmetr : \iota \Rightarrow o$ be given. Let $l1\_analmetr : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v4\_analmetr : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_analmetr : \iota \Rightarrow o$ be given. Let $k4\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_analmetr\ X0) \wedge (l1\_analmetr\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow (((X2 \in X1) \wedge ((X3 \in X1) \wedge (v4\_analmetr\ X1\ X0))) \Rightarrow ((X2 = X3) \vee (X1 = k4\_analmetr\ X0\ X2\ X3))))))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_analmetr\ X0) \Rightarrow (((\neg v2\_struct\_0\ X0) \wedge (v3\_analmetr\ X0)) \Rightarrow ((\neg v2\_struct\_0\ X0) \wedge (v2\_analmetr\ X0))) \tag{2}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v3\_analmetr\ X0) \wedge (l1\_analmetr\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\neg (v4\_analmetr\ X3\ X0) \wedge ((v4\_analmetr\ X4\ X0) \wedge ((X1 \in X3) \wedge ((X2 \in X3) \wedge ((X1 \in X4) \wedge ((X2 \in X4) \wedge ((X1 \neq X2) \wedge (X3 \neq X4)))))))))))$$