t18_intpro_1 (TMG-WZxKA6JrUy3FDuo9Jz2JBr9wvbqsbHiR)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_intpro\_1 : \iota$ be given. Let $k8\_intpro\_1 : \iota$ be given. Let $k3\_intpro\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v8\_intpro\_1 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_intpro\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_intpro\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_intpro\_1 : \iota$ be given. Assume the following.

$$v8\_intpro\_1\ k8\_intpro\_1 \tag{1}$$

Assume the following.

$$m1\_subset\_1\ k8\_intpro\_1\ (k1\_zfmisc\_1\ k1\_intpro\_1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_intpro\_1) \wedge (m1\_subset\_1\ X1\ k1\_intpro\_1)) \Rightarrow (m1\_subset\_1\ (k3\_intpro\_1\ X0\ X1)\ k1\_intpro\_1) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_intpro\_1)) \Rightarrow ((v8\_intpro\_1\ X0) \Leftrightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_intpro\_1) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k1\_intpro\_1) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ k1\_intpro\_1) \Rightarrow ((k3\_intpro\_1\ X1\ (k3\_intpro\_1\ X2\ X1) \in X0) \wedge ((k3\_intpro\_1\ (k3\_intpro\_1\ X1\ (k3\_intpro\_1\ X2\ X3))\ (k3\_intpro\_1\ (k3\_intpro\_1\ X1\ X2)\ (k3\_intpro\_1\ X1\ X3)) \in X0) \wedge ((k3\_intpro\_1\ (k4\_intpro\_1\ X1\ X2)\ X1 \in X0) \wedge ((k3\_intpro\_1\ (k4\_intpro\_1\ X1\ X2)\ X2 \in X0) \wedge ((k3\_intpro\_1\ X1\ (k3\_intpro\_1\ X2\ (k4\_intpro\_1\ X1\ X2)) \in X0) \wedge ((k3\_intpro\_1\ X1\ (k5\_intpro\_1\ X1\ X2) \in X0) \wedge ((k3\_intpro\_1\ X2\ (k5\_intpro\_1\ X1\ X2) \in X0) \wedge ((k3\_intpro\_1\ (k3\_intpro\_1\ X1\ X3)\ (k3\_intpro\_1\ (k3\_intpro\_1\ X2\ X3)\ (k3\_intpro\_1\ (k5\_intpro\_1\ X1\ X2)\ X3)) \in X0) \wedge ((k3\_intpro\_1\ k2\_intpro\_1\ X1 \in X0) \wedge (((X1 \in X0) \wedge (k3\_intpro\_1\ X1\ X2 \in X0)) \Rightarrow (X2 \in X0)))))))))))))) \tag{4}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_intpro\_1) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_intpro\_1) \Rightarrow ((X0 \in k8\_intpro\_1) \Rightarrow (k3\_intpro\_1\ X1\ X0 \in k8\_intpro\_1)))$$