t33_intpro_1
(TMYuh6oZfVoKrRjspyrwRxoC3Xgh1gKBYwy)

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

$$\forall X0.(m1\_subset\_1\ X0\ k1\_intpro\_1){\Rightarrow}(\forall X1.(m1\_subset\_1\ X1\ k1\_intpro\_1){\Rightarrow}(k3\_intpro\_1\ (k3\_intpro\_1\ X0\ (k3\_intpro\_1\ X0\ X1))\ (k3\_intpro\_1\ X0\ X1) \in k8\_intpro\_1)) \tag{1}$$

Assume the following.
$$v8\_intpro\_1\ k8\_intpro\_1 \tag{2}$$

Assume the following.

$$m1\_subset\_1\ k8\_intpro\_1\ (k1\_zfmisc\_1\ k1\_intpro\_1) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_intpro\_1){\wedge}(m1\_subset\_1\ X1\ k1\_intpro\_1)){\Rightarrow}(m1\_subset\_1\ (k4\_intpro\_1\ X0\ X1)\ k1\_intpro\_1) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_intpro\_1){\wedge}(m1\_subset\_1\ X1\ k1\_intpro\_1)){\Rightarrow}(m1\_subset\_1\ (k3\_intpro\_1\ X0\ X1)\ k1\_intpro\_1) \tag{5}$$

Assume the following.

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

$$(6)$$

Theorem 1

$$\forall X0.(m1\_subset\_1 \ X0 \ k1\_intpro\_1)\Rightarrow(k3\_intpro\_1 \ X0 \ (k4\_intpro\_1$$
$$X0 \ X0) \in k8\_intpro\_1)$$

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