t32_yellow18 (TMH2P9ZVLYmzvNH6Mgdct6PHBPnSSo4Tm2s)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k7\_altcat\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_yellow18 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_altcat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_partfun1 : \iota \Rightarrow \iota$ be given. Let $k4\_relat\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_altcat\_1 : \iota \Rightarrow o$ be given. Let $v6\_altcat\_1 : \iota \Rightarrow o$ be given. Let $v10\_altcat\_1 : \iota \Rightarrow o$ be given. Let $v11\_altcat\_1 : \iota \Rightarrow o$ be given. Let $v12\_altcat\_1 : \iota \Rightarrow o$ be given. Let $l2\_altcat\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k7\_altcat\_1\ X0))) \Rightarrow (k8\_altcat\_1\ (k7\_altcat\_1\ X0)\ X1 = k6\_partfun1\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.k6\_partfun1\ X0 = k4\_relat\_1\ X0 \tag{2}$$

Assume the following.

$$\forall X0.k9\_xtuple\_0\ (k4\_relat\_1\ X0) = X0 \tag{3}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow ((\neg v2\_struct\_0\ (k7\_altcat\_1\ X0)) \wedge ((v2\_altcat\_1\ (k7\_altcat\_1\ X0)) \wedge ((v6\_altcat\_1\ (k7\_altcat\_1\ X0)) \wedge ((v10\_altcat\_1\ (k7\_altcat\_1\ X0)) \wedge ((v11\_altcat\_1\ (k7\_altcat\_1\ X0)) \wedge (v12\_altcat\_1\ (k7\_altcat\_1\ X0))))))) \tag{4}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow ((\neg v2\_struct\_0\ (k7\_altcat\_1\ X0)) \wedge ((v6\_altcat\_1\ (k7\_altcat\_1\ X0)) \wedge ((v10\_altcat\_1\ (k7\_altcat\_1\ X0)) \wedge (l2\_altcat\_1\ (k7\_altcat\_1\ X0))))) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_altcat\_1\ X0)\wedge((v11\_altcat\_1\ X0)\wedge((v12\_altcat\_1\ X0)\wedge(l2\_altcat\_1\ X0)))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(k3\_yellow18\ X0\ X1 = k9\_xtuple\_0\ (k8\_altcat\_1\ X0\ X1))) \tag{6}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k7\_altcat\_1\ X0)))\Rightarrow(k3\_yellow18\ (k7\_altcat\_1\ X0)\ X1 = X1))$$