t21_yellow_3 (TMbpXjuYc6JDNtJJHwG7X2ST1123exix7H6)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k3\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_orders\_2 : \iota \Rightarrow \iota$ be given. Let $k2\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((l1\_orders\_2\ X0) \wedge ((l1\_orders\_2\ X1) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_yellow\_3\ X0\ X1)))))) \Rightarrow (k5\_yellow\_3\ X0\ X1\ X2 = k10\_xtuple\_0\ X2) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((l1\_orders\_2\ X0) \wedge ((l1\_orders\_2\ X1) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_yellow\_3\ X0\ X1)))))) \Rightarrow (k4\_yellow\_3\ X0\ X1\ X2 = k9\_xtuple\_0\ X2) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (v1\_relat\_1\ X0)) \Rightarrow (\neg v1\_xboole\_0\ (k10\_xtuple\_0\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (v1\_relat\_1\ X0)) \Rightarrow (\neg v1\_xboole\_0\ (k9\_xtuple\_0\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_orders\_2\ X0) \wedge (l1\_orders\_2\ X1)) \Rightarrow ((v1\_orders\_2\ (k3\_yellow\_3\ X0\ X1)) \wedge (l1\_orders\_2\ (k3\_yellow\_3\ X0\ X1))) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.(l1\_orders\_2\ X1)\Rightarrow(\forall X2.((v1\_orders\_2\ X2)\wedge(l1\_orders\_2\ X2))\Rightarrow((X2 = k3\_yellow\_3\ X0\ X1)\Leftrightarrow((u1\_struct\_0\ X2 = k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\wedge(u1\_orders\_2\ X2 = k2\_yellow\_3\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X1)\ (u1\_orders\_2\ X0)\ (u1\_orders\_2\ X1)))))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow(v1\_relat\_1\ X2) \tag{7}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge(l1\_orders\_2\ X1))\Rightarrow(\forall X2.((\neg v1\_xboole\_0\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_yellow\_3\ X0\ X1)))))\Rightarrow((\neg v1\_xboole\_0\ (k4\_yellow\_3\ X0\ X1\ X2))\wedge(\neg v1\_xboole\_0\ (k5\_yellow\_3\ X0\ X1\ X2)))))$$