t23_ltlaxio1 (TMZZt88kuKkxmRoQZLeoX6g8XPsdPiQAZHq)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_hilbert1 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k10\_ltlaxio1 : \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_ltlaxio1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2\_ltlaxio1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $v5\_hilbert1 : \iota \Rightarrow o$ be given. Let $v1\_hilbert1 : \iota \Rightarrow o$ be given. Let $v2\_hilbert1 : \iota \Rightarrow o$ be given. Let $v3\_hilbert1 : \iota \Rightarrow o$ be given. Let $v4\_hilbert1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X2))) \Rightarrow (m1\_subset\_1\ X0\ X2) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X1\ X0)) \Rightarrow (k6\_domain\_1\ X0\ X1 = k1\_tarski\ X1) \tag{2}$$

Assume the following.

$$v5\_hilbert1\ k1\_hilbert1 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X1\ X0)) \Rightarrow (m1\_subset\_1\ (k6\_domain\_1\ X0\ X1)\ (k1\_zfmisc\_1\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{5}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge ((v1\_funct\_2\ X0\ k5\_numbers\ (k1\_zfmisc\_1\ k10\_ltlaxio1)) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k1\_zfmisc\_1\ k10\_ltlaxio1)))))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ k1\_hilbert1)) \Rightarrow ((r2\_ltlaxio1\ X0\ X1) \Leftrightarrow (\forall X2.(m1\_subset\_1\ X2\ k1\_hilbert1) \Rightarrow ((X2 \in X1) \Rightarrow (r1\_ltlaxio1\ X0\ X2))))) \tag{6}$$

Assume the following.

$$\forall X0.(v5\_hilbert1\ X0)\Rightarrow((\neg v1\_xboole\_0\ X0)\wedge((v1\_hilbert1\ X0)\wedge((v2\_hilbert1\ X0)\wedge((v3\_hilbert1\ X0)\wedge(v4\_hilbert1\ X0))))) \tag{7}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_hilbert1)\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ k5\_numbers\ (k1\_zfmisc\_1\ k10\_ltlaxio1))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k1\_zfmisc\_1\ k10\_ltlaxio1))))))\Rightarrow((r1\_ltlaxio1\ X1\ X0)\Leftrightarrow(r2\_ltlaxio1\ X1\ (k6\_domain\_1\ k1\_hilbert1\ X0))))$$