t14_tex_1 (TMbWHgKYsuptJR8JoX9Pq4SjJL5cn6ixp89)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ 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 $k1\_xboole\_0 : \iota$ be given. Let $v1\_tops\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_tdlat\_3 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k2\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow ((\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow ((\neg v1\_xboole\_0\ X1) \Rightarrow (k2\_pre\_topc\ X0\ X1 = u1\_struct\_0\ X0))) \Rightarrow (v2\_tdlat\_3\ X0)) \tag{1}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{2}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow ((v1\_tops\_1\ X1\ X0) \Leftrightarrow (k2\_pre\_topc\ X0\ X1 = u1\_struct\_0\ X0))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow ((\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow ((X1 \neq k1\_xboole\_0) \Rightarrow (v1\_tops\_1\ X1\ X0))) \Rightarrow (v2\_tdlat\_3\ X0))$$