t51_abcmiz_0 (TMRojnkhZkViFX3UjaLgffQz2fVKN8Td18a)

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Let $v3\_orders\_2 : \iota \Rightarrow o$ be given. Let $v4\_orders\_2 : \iota \Rightarrow o$ be given. Let $v5\_orders\_2 : \iota \Rightarrow o$ be given. Let $v1\_lattice3 : \iota \Rightarrow o$ be given. Let $v1\_abcmiz\_0 : \iota \Rightarrow o$ be given. Let $v9\_abcmiz\_0 : \iota \Rightarrow o$ be given. Let $l2\_abcmiz\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_abcmiz\_0 : \iota \Rightarrow \iota$ be given. Let $r2\_abcmiz\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_abcmiz\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_abcmiz\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_abcmiz\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $l1\_abcmiz\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v1\_abcmiz\_0\ X0) \wedge ((v9\_abcmiz\_0\ X0) \wedge (l2\_abcmiz\_0\ X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_abcmiz\_0\ X0))) \Rightarrow ((r2\_abcmiz\_0\ X0\ X1\ X2) \Rightarrow (r1\_tarski\ X2\ (k2\_abcmiz\_0\ X0\ (k6\_abcmiz\_0\ X0\ X1\ X2))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l2\_abcmiz\_0\ X0)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_abcmiz\_0\ X0))) \Rightarrow ((r1\_tarski\ X2\ (k2\_abcmiz\_0\ X0\ X1)) \Leftrightarrow (X1 \in k4\_abcmiz\_0\ X0\ X2)))) \tag{2}$$

Assume the following.

$$\forall X0.(l2\_abcmiz\_0\ X0) \Rightarrow ((l1\_orders\_2\ X0) \wedge (l1\_abcmiz\_0\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0) \wedge ((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge (l2\_abcmiz\_0\ X0)))) \wedge ((m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_abcmiz\_0\ X0))))) \Rightarrow (m1\_subset\_1\ (k6\_abcmiz\_0\ X0\ X1\ X2)\ (u1\_struct\_0\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow ((v1\_lattice3\ X0) \Rightarrow (\neg v2\_struct\_0\ X0)) \qquad (5)$$

Theorem 1

$$\forall X0.((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v1\_abcmiz\_0\ X0) \wedge ((v9\_abcmiz\_0\ X0) \wedge (l2\_abcmiz\_0\ X0))))))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_abcmiz\_0\ X0))) \Rightarrow ((r2\_abcmiz\_0\ X0\ X1\ X2) \Rightarrow (k6\_abcmiz\_0\ X0\ X1\ X2 \in k4\_abcmiz\_0\ X0\ X2))))$$