

t7_openlatt
(TMTxo8Zmq3LnJS94H6LkMgGMDcgEF1TSc5G)

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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 $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k6_openlatt : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_openlatt : \iota \Rightarrow \iota$ be given. Let $r3_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 (k6_openlatt \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (u1_struct_0 (k6_openlatt \\ & X0))) \Rightarrow ((r3_lattices (k6_openlatt X0) X1 X2) \Leftrightarrow (r1_tarski X1 X2)))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 (k6_openlatt \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (u1_struct_0 (k6_openlatt \\ & X0))) \Rightarrow (\forall X3. (m2_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 \\ & X0)) (k1_openlatt X0)) \Rightarrow (\forall X4. (m2_subset_1 X4 (k1_zfmisc_1 \\ & (u1_struct_0 X0)) (k1_openlatt X0)) \Rightarrow (((X1 = X3) \wedge (X2 = X4)) \Rightarrow ((r3_lattices \\ & (k6_openlatt X0) X1 X2) \Leftrightarrow (r1_tarski X3 X4)))))) \end{aligned}$$