

# t15\_lattices (TM- Lyc1nLtBKBM7KMdsj7vFCXvWSbaPTaGfw)

October 27, 2020

Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v10\_lattices : \iota \Rightarrow o$  be given. Let  $v13\_lattices : \iota \Rightarrow o$  be given. Let  $l3\_lattices : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_lattices : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (((\neg v2\_struct\_0 X0) \wedge (v10\_lattices X0) \wedge ((v13\_lattices X0) \wedge (l3\_lattices X0)))) \wedge (m1\_subset\_1 X1 (u1\_struct\_0 X0))) \Rightarrow (k4\_lattices X0 (k5\_lattices X0) X1 = k5\_lattices X0) \quad (1)$$

**Theorem 1**

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge (v10\_lattices X0) \wedge ((v13\_lattices X0) \wedge (l3\_lattices X0))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (k4\_lattices X0 (k5\_lattices X0) X1 = k5\_lattices X0))$$