

t22_unialg_3 (TML- Rokam7dfJnQdam23rvGhMVmS7zKVKPv8)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_unialg_1 : \iota \Rightarrow o$ be given. Let $v2_unialg_1 : \iota \Rightarrow o$ be given. Let $v3_unialg_1 : \iota \Rightarrow o$ be given. Let $v4_unialg_1 : \iota \Rightarrow o$ be given. Let $v2_unialg_2 : \iota \Rightarrow o$ be given. Let $l1_unialg_1 : \iota \Rightarrow o$ be given. Let $k6_lattices : \iota \Rightarrow \iota$ be given. Let $k12_unialg_2 : \iota \Rightarrow \iota$ 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 $k7_unialg_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_subset_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_unialg_1 X0) \wedge ((v2_unialg_1 \\ & X0) \wedge ((v3_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge ((v2_unialg_2 X0) \wedge \\ & (l1_unialg_1 X0))))))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow ((X1 = u1_struct_0 X0) \Rightarrow (k6_lattices (k12_unialg_2 \\ & X0) = k7_unialg_2 X0 X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_unialg_1 X0) \wedge ((v2_unialg_1 \\ & X0) \wedge ((v3_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 X0)))))) \Rightarrow \\ & (k7_unialg_2 X0 (k2_subset_1 (u1_struct_0 X0)) = X0) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. m1_subset_1 (k2_subset_1 X0) (k1_zfmisc_1 X0) \tag{3}$$

Assume the following.

$$\forall X0. k2_subset_1 X0 = X0 \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_unialg_1 X0) \wedge ((v2_unialg_1 \\ & X0) \wedge ((v3_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge ((v2_unialg_2 X0) \wedge \\ & (l1_unialg_1 X0))))))) \Rightarrow (k6_lattices (k12_unialg_2 X0) = X0) \end{aligned}$$