

t1_algstr_1
(TMSjWwJo55QkC5Eepf2UcjvprDmx7SvoLnJ)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $l2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_algstr_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l2_algstr_0 X0) \Rightarrow ((l2_struct_0 X0) \wedge (l1_algstr_0 X0)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((l1_algstr_0 X0) \wedge ((m1_subset_1 \\ & X1 (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (u1_struct_0 X0)))) \Rightarrow (m1_subset_1 \\ & (k1_algstr_0 X0 X1 X2) (u1_struct_0 X0)) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 \\ & (u1_struct_0 X0)) \Rightarrow ((\forall X3. (m1_subset_1 X3 (u1_struct_0 \\ & X0)) \Rightarrow (k1_algstr_0 X0 X3 (k4_struct_0 X0) = X3)) \wedge ((\forall X3. (\\ & m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\exists X4. (m1_subset_1 X4 \\ & (u1_struct_0 X0)) \wedge (k1_algstr_0 X0 X3 X4 = k4_struct_0 X0))) \wedge ((\\ & \forall X3. (m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\forall X4. (m1_subset_1 \\ & X4 (u1_struct_0 X0)) \Rightarrow (\forall X5. (m1_subset_1 X5 (u1_struct_0 \\ & X0)) \Rightarrow (k1_algstr_0 X0 (k1_algstr_0 X0 X3 X4) X5 = k1_algstr_0 X0 X3 \\ & (k1_algstr_0 X0 X4 X5)))))) \wedge (k1_algstr_0 X0 X1 X2 = k4_struct_0 X0))) \Rightarrow \\ & (k1_algstr_0 X0 X2 X1 = k4_struct_0 X0))) \end{aligned}$$