

t6_yellow18
(TMSeL7S3dbyDvNLb8Li7ZGUY1JfFt5yhYa2)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l2_altcat_1 : \iota \Rightarrow o$ be given. Let $r2_yellow18 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_altcat_1 : \iota \Rightarrow \iota$ be given. Let $k2_funct_4 : \iota \Rightarrow \iota$ be given. Let $k4_altcat_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u2_altcat_1 : \iota \Rightarrow \iota$ be given. Let $k1_functor0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l2_altcat_1 X0)) \Rightarrow (\forall X1. \\
& ((\neg v2_struct_0 X1) \wedge (l2_altcat_1 X1)) \Rightarrow ((r2_yellow18 X0 X1) \Leftrightarrow (\\
& (u1_struct_0 X1 = u1_struct_0 X0) \wedge ((u1_altcat_1 X1 = k2_funct_4 \\
& (u1_altcat_1 X0)) \wedge (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow \\
& (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\forall X4.(m1_subset_1 \\
& X4 (u1_struct_0 X0)) \Rightarrow (\forall X5.(m1_subset_1 X5 (u1_struct_0 \\
& X1)) \Rightarrow (\forall X6.(m1_subset_1 X6 (u1_struct_0 X1)) \Rightarrow (\forall X7. \\
& (m1_subset_1 X7 (u1_struct_0 X1)) \Rightarrow (((X5 = X2) \wedge ((X6 = X3) \wedge (X7 = X4))) \Rightarrow \\
& (k4_altcat_1 (u1_struct_0 X1) (u1_altcat_1 X1) (u2_altcat_1 X1) \\
& X5 X6 X7 = k1_functor0 (k1_binop_1 (u1_altcat_1 X0) X3 X2) (k1_binop_1 \\
& (u1_altcat_1 X0) X4 X3) (k1_binop_1 (u1_altcat_1 X0) X4 X2) (k4_altcat_1 \\
& (u1_struct_0 X0) (u1_altcat_1 X0) (u2_altcat_1 X0) X4 X3 X2))))))))))))) \\
& \tag{1}
\end{aligned}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l2_altcat_1 X0)) \Rightarrow (\forall X1. \\
& ((\neg v2_struct_0 X1) \wedge (l2_altcat_1 X1)) \Rightarrow ((r2_yellow18 X0 X1) \Rightarrow (\\
& \forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (m1_subset_1 X2 \\
& (u1_struct_0 X1))))))
\end{aligned}$$