

t11_projred1 (TMVPmCR- pxYQKvZDtnW3kPEuF65crf4Mcyxn)

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Let $v6_incsp_1 : \iota \Rightarrow o$ be given. Let $v1_incproj : \iota \Rightarrow o$ be given. Let $v2_incproj : \iota \Rightarrow o$ be given. Let $v3_incproj : \iota \Rightarrow o$ be given. Let $v4_incproj : \iota \Rightarrow o$ be given. Let $l1_incsp_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_incsp_1 : \iota \Rightarrow \iota$ be given. Let $u2_incsp_1 : \iota \Rightarrow \iota$ be given. Let $r4_incsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_incsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(l1_incsp_1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u2_incsp_1 \\
 & \quad X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_incsp_1 X0)) \Rightarrow (\forall X3. \\
 & \quad (m1_subset_1 X3 (u1_incsp_1 X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 \\
 & \quad (u1_incsp_1 X0)) \Rightarrow ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) \\
 & \quad X2 X3 X4) X1) \Leftrightarrow ((r1_incsp_1 X0 X2 X1) \wedge ((r1_incsp_1 X0 X3 X1) \wedge (r1_incsp_1 \\
 & \quad \quad X0 X4 X1)))))))))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.(((v6_incsp_1 X0) \wedge ((v1_incproj X0) \wedge ((v2_incproj X0) \wedge \\
 & \quad ((v3_incproj X0) \wedge ((v4_incproj X0) \wedge (l1_incsp_1 X0)))))) \Rightarrow (\forall X1. \\
 & \quad (m1_subset_1 X1 (u1_incsp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 \\
 & \quad (u1_incsp_1 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_incsp_1 X0)) \Rightarrow \\
 & \quad (\forall X4.(m1_subset_1 X4 (u2_incsp_1 X0)) \Rightarrow ((r4_incsp_1 X0 \\
 & \quad (k8_domain_1 (u1_incsp_1 X0) X1 X2 X3) X4) \Rightarrow ((r4_incsp_1 X0 (k8_domain_1 \\
 & \quad (u1_incsp_1 X0) X1 X3 X2) X4) \wedge ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 \\
 & \quad X0) X2 X1 X3) X4) \wedge ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) X2 \\
 & \quad X3 X1) X4) \wedge ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) X3 X1 X2) \\
 & \quad X4) \wedge (r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) X3 X2 X1) X4))))))))))
 \end{aligned}$$