

t14_projred1 (TMRjjBfPEgUn-
ReYg6hDdTxBKUpLUzDJYHvPA)

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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 $v8_incproj : \iota \Rightarrow o$ 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 $r1_incsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r4_incsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given.

Let $r2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((v6_incsp_1 X0) \wedge ((v1_incproj X0) \wedge ((v2_incproj X0) \wedge \\
& ((v3_incproj X0) \wedge ((v4_incproj X0) \wedge ((v8_incproj X0) \wedge (l1_incsp_1 \\
& X0)))))) \Rightarrow (\exists X1.(m1_subset_1 X1 (u1_incsp_1 X0)) \wedge (\exists X2. \\
& (m1_subset_1 X2 (u1_incsp_1 X0)) \wedge (\exists X3.(m1_subset_1 X3 \\
& (u1_incsp_1 X0)) \wedge (\exists X4.(m1_subset_1 X4 (u1_incsp_1 X0)) \wedge \\
& (\exists X5.(m1_subset_1 X5 (u1_incsp_1 X0)) \wedge (\exists X6.(m1_subset_1 \\
& X6 (u1_incsp_1 X0)) \wedge (\exists X7.(m1_subset_1 X7 (u1_incsp_1 X0)) \wedge \\
& (\exists X8.(m1_subset_1 X8 (u2_incsp_1 X0)) \wedge (\exists X9.(m1_subset_1 \\
& X9 (u2_incsp_1 X0)) \wedge (\exists X10.(m1_subset_1 X10 (u2_incsp_1 \\
& X0)) \wedge (\exists X11.(m1_subset_1 X11 (u2_incsp_1 X0)) \wedge (\exists X12. \\
& (m1_subset_1 X12 (u2_incsp_1 X0)) \wedge (\exists X13.(m1_subset_1 \\
& X13 (u2_incsp_1 X0)) \wedge (\exists X14.(m1_subset_1 X14 (u2_incsp_1 \\
& X0)) \wedge (\exists X15.(m1_subset_1 X15 (u2_incsp_1 X0)) \wedge (\exists X16. \\
& (m1_subset_1 X16 (u1_incsp_1 X0)) \wedge ((\neg r1_incsp_1 X0 X2 X12) \wedge ((\\
& \neg r1_incsp_1 X0 X3 X12) \wedge ((\neg r1_incsp_1 X0 X1 X11) \wedge ((\neg r1_incsp_1 \\
& X0 X4 X11) \wedge ((\neg r1_incsp_1 X0 X1 X13) \wedge ((\neg r1_incsp_1 X0 X3 X13) \wedge ((\\
& \neg r1_incsp_1 X0 X2 X14) \wedge ((\neg r1_incsp_1 X0 X4 X14) \wedge ((r4_incsp_1 X0 \\
& (k8_domain_1 (u1_incsp_1 X0) X5 X1 X4) X12) \wedge ((r4_incsp_1 X0 (k8_domain_1 \\
& (u1_incsp_1 X0) X5 X2 X3) X11) \wedge ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 \\
& X0) X6 X2 X4) X13) \wedge ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) \\
& X6 X1 X3) X14) \wedge ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) X7 X1 \\
& X2) X8) \wedge ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) X7 X3 X4) X9) \wedge \\
& ((r4_incsp_1 X0 (k7_domain_1 (u1_incsp_1 X0) X5 X6) X10) \wedge ((\neg r1_incsp_1 \\
& X0 X7 X10) \wedge ((r1_incsp_1 X0 X6 X15) \wedge ((r1_incsp_1 X0 X7 X15) \wedge ((r2_zfmisc_1 \\
& X10 X15 X13 X14) \wedge ((r1_incsp_1 X0 X16 X8) \wedge (r2_zfmisc_1 X7 X16 X1 X2)))))))))))))))))))))))))))))))))) \\
& (1)
\end{aligned}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v6_incsp_1 X0) \wedge ((v1_incproj X0) \wedge ((v2_incproj X0) \wedge \\
& ((v3_incproj X0) \wedge ((v4_incproj X0) \wedge ((v8_incproj X0) \wedge (l1_incsp_1 \\
& X0)))))) \Rightarrow (\exists X1.(m1_subset_1 X1 (u1_incsp_1 X0)) \wedge (\exists X2. \\
& (m1_subset_1 X2 (u1_incsp_1 X0)) \wedge (\exists X3.(m1_subset_1 X3 \\
& (u1_incsp_1 X0)) \wedge (\exists X4.(m1_subset_1 X4 (u1_incsp_1 X0)) \wedge \\
& (\exists X5.(m1_subset_1 X5 (u1_incsp_1 X0)) \wedge (\exists X6.(m1_subset_1 \\
& X6 (u1_incsp_1 X0)) \wedge (\exists X7.(m1_subset_1 X7 (u1_incsp_1 X0)) \wedge \\
& (\exists X8.(m1_subset_1 X8 (u2_incsp_1 X0)) \wedge (\exists X9.(m1_subset_1 \\
& X9 (u2_incsp_1 X0)) \wedge (\exists X10.(m1_subset_1 X10 (u2_incsp_1 \\
& X0)) \wedge (\exists X11.(m1_subset_1 X11 (u2_incsp_1 X0)) \wedge (\exists X12. \\
& (m1_subset_1 X12 (u2_incsp_1 X0)) \wedge (\exists X13.(m1_subset_1 \\
& X13 (u2_incsp_1 X0)) \wedge (\exists X14.(m1_subset_1 X14 (u2_incsp_1 \\
& X0)) \wedge (\exists X15.(m1_subset_1 X15 (u2_incsp_1 X0)) \wedge ((\neg r1_incsp_1 \\
& X0 X2 X12) \wedge ((\neg r1_incsp_1 X0 X3 X12) \wedge ((\neg r1_incsp_1 X0 X1 X11) \wedge ((\\
& \neg r1_incsp_1 X0 X4 X11) \wedge ((\neg r1_incsp_1 X0 X1 X13) \wedge ((\neg r1_incsp_1 \\
& X0 X3 X13) \wedge ((\neg r1_incsp_1 X0 X2 X14) \wedge ((\neg r1_incsp_1 X0 X4 X14) \wedge ((\\
& r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) X5 X1 X4) X12) \wedge ((r4_incsp_1 \\
& X0 (k8_domain_1 (u1_incsp_1 X0) X5 X2 X3) X11) \wedge ((r4_incsp_1 X0 (\\
& k8_domain_1 (u1_incsp_1 X0) X6 X2 X4) X13) \wedge ((r4_incsp_1 X0 (k8_domain_1 \\
& (u1_incsp_1 X0) X6 X1 X3) X14) \wedge ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 \\
& X0) X7 X1 X2) X8) \wedge ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) X7 \\
& X3 X4) X9) \wedge ((r4_incsp_1 X0 (k7_domain_1 (u1_incsp_1 X0) X5 X6) X10) \wedge \\
& (\neg r1_incsp_1 X0 X7 X10))))))))))))))))))))))))))))))))))
\end{aligned}$$