

# t2\_projred2 (TMaZijoR- RpZe5ygmM756LMTk3EAwFQ7awBc)

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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  $v5\_incproj : \iota \Rightarrow o$  be given. Let  $v9\_incproj : \iota \Rightarrow o$  be given. Let  $l1\_incsp\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u2\_incsp\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_projred2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_incsp\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_incsp\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v6\_incsp\_1 X0) \wedge ((v1\_incproj X0) \wedge ((v2\_incproj X0) \wedge \\
 & ((v3\_incproj X0) \wedge ((v4\_incproj X0) \wedge (l1\_incsp\_1 X0)))))) \Rightarrow (\forall X1. \\
 & (m1\_subset\_1 X1 (u2\_incsp\_1 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 \\
 & (u2\_incsp\_1 X0)) \Rightarrow (\forall X3.(m1\_subset\_1 X3 (u2\_incsp\_1 X0)) \Rightarrow \\
 & ((r1\_projred2 X0 X1 X2 X3) \Leftrightarrow (\exists X4.(m1\_subset\_1 X4 (u1\_incsp\_1 \\
 & X0)) \wedge ((r1\_incsp\_1 X0 X4 X1) \wedge (r1\_incsp\_1 X0 X4 X2) \wedge (r1\_incsp\_1 \\
 & X0 X4 X3))))))
 \end{aligned} \tag{1}$$

## Theorem 1

$$\begin{aligned}
 & \forall X0.((v6\_incsp\_1 X0) \wedge ((v1\_incproj X0) \wedge ((v2\_incproj X0) \wedge \\
 & ((v3\_incproj X0) \wedge ((v4\_incproj X0) \wedge ((v5\_incproj X0) \wedge ((v9\_incproj \\
 & X0) \wedge (l1\_incsp\_1 X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u2\_incsp\_1 \\
 & X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u2\_incsp\_1 X0)) \Rightarrow (\forall X3. \\
 & (m1\_subset\_1 X3 (u2\_incsp\_1 X0)) \Rightarrow ((r1\_projred2 X0 X1 X2 X3) \Rightarrow (( \\
 & r1\_projred2 X0 X1 X3 X2) \wedge (r1\_projred2 X0 X2 X1 X3) \wedge ((r1\_projred2 \\
 & X0 X2 X3 X1) \wedge (r1\_projred2 X0 X3 X1 X2) \wedge (r1\_projred2 X0 X3 X2 X1))))))
 \end{aligned}$$