

t7_incproj
(TMFC5YYFjh4duorot6zF694NSrkuo3W4pT4)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_collsp : \iota \Rightarrow o$ be given. Let $v3_collsp : \iota \Rightarrow o$ be given. Let $v4_collsp : \iota \Rightarrow o$ be given. Let $l1_collsp : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v2_collsp X0) \wedge ((v3_collsp X0) \wedge \\ &((v4_collsp X0) \wedge (l1_collsp X0)))))) \Rightarrow (\exists X1. (m1_subset_1 \\ X1 (u1_struct_0 X0)) \wedge (\exists X2. (m1_subset_1 X2 (u1_struct_0 \\ X0)) \wedge (\exists X3. (m1_subset_1 X3 (u1_struct_0 X0)) \wedge ((X1 \neq X2) \wedge \\ ((X2 \neq X3) \wedge (X3 \neq X1))))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v2_collsp X0) \wedge ((v3_collsp X0) \wedge \\ &((v4_collsp X0) \wedge (l1_collsp X0)))))) \Rightarrow (\forall X1. (m1_subset_1 \\ X1 (u1_struct_0 X0)) \Rightarrow (\neg \forall X2. (m1_subset_1 X2 (u1_struct_0 \\ X0)) \Rightarrow (X1 = X2))) \end{aligned}$$