

t2_incproj

(TMRS2XeDgdxVotopiUs86QG7GQ4ijtzpcDV)

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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 $u1_incsp_1 : \iota \Rightarrow \iota$ be given. Let $k3_incproj : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u2_incsp_1 : \iota \Rightarrow \iota$ be given. Let $k1_incproj : \iota \Rightarrow \iota$ be given. Let $u3_incsp_1 : \iota \Rightarrow \iota$ be given. Let $k2_incproj : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1_incsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v1_incsp_1 : \iota \Rightarrow o$ be given. Let $l1_incsp_1 : \iota \Rightarrow o$ be given. Let $m1_incproj : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 \\ & X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))))) \Rightarrow (\forall X3. \\ & \forall X4. \forall X5. (g1_incsp_1 X0 X1 X2 = g1_incsp_1 X3 X4 X5) \Rightarrow \\ & ((X0 = X3) \wedge ((X1 = X4) \wedge (X2 = X5)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\neg v1_xboole_0 (u1_struct_0 X0)) \tag{2}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_collsp X0) \wedge ((v3_collsp X0) \wedge ((v4_collsp X0) \wedge (l1_collsp X0))))) \Rightarrow (v1_incsp_1 (k3_incproj X0)) \tag{3}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_collsp X0) \wedge ((v3_collsp X0) \wedge ((v4_collsp X0) \wedge (l1_collsp X0))))) \Rightarrow (\neg v1_xboole_0 (k1_incproj X0)) \tag{4}$$

Assume the following.

$$\forall X0. (l1_collsp X0) \Rightarrow (l1_struct_0 X0) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_collsp X0) \wedge ((v3_collsp X0) \wedge ((v4_collsp X0) \wedge (l1_collsp X0)))))) \Rightarrow (l1_incsp_1 (k3_incproj X0)) \quad (6)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_collsp X0) \wedge ((v3_collsp X0) \wedge ((v4_collsp X0) \wedge (l1_collsp X0)))))) \Rightarrow (m1_subset_1 (k2_incproj X0) (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 X0) (k1_incproj X0)))) \quad (7)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_collsp X0) \wedge ((v3_collsp X0) \wedge ((v4_collsp X0) \wedge (l1_collsp X0)))))) \Rightarrow (k3_incproj X0 = g1_incsp_1 (u1_struct_0 X0) (k1_incproj X0) (k2_incproj X0)) \quad (8)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_collsp X0) \wedge ((v3_collsp X0) \wedge ((v4_collsp X0) \wedge (l1_collsp X0)))))) \Rightarrow (k1_incproj X0 = ReplSep (toset (\lambda X1 : \iota. m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))) (\lambda X1 : \iota. m1_incproj X1 X0) (\lambda X1 : \iota. X1))) \quad (9)$$

Assume the following.

$$\forall X0. (l1_incsp_1 X0) \Rightarrow ((v1_incsp_1 X0) \Rightarrow (X0 = g1_incsp_1 (u1_incsp_1 X0) (u2_incsp_1 X0) (u3_incsp_1 X0))) \quad (10)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_collsp X0) \wedge ((v3_collsp X0) \wedge ((v4_collsp X0) \wedge (l1_collsp X0)))))) \Rightarrow ((u1_incsp_1 (k3_incproj X0) = u1_struct_0 X0) \wedge ((u2_incsp_1 (k3_incproj X0) = k1_incproj X0) \wedge (u3_incsp_1 (k3_incproj X0) = k2_incproj X0)))$$