

t8\_combgras  
(TMFtRdXKXKM7bQESZ7ATr5iPsE4rFu7FAJF)

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Let  $l1\_incsp\_1 : \iota \Rightarrow o$  be given. Let  $g1\_incsp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_incsp\_1 : \iota \Rightarrow \iota$  be given. Let  $u2\_incsp\_1 : \iota \Rightarrow \iota$  be given. Let  $u3\_incsp\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_incsp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  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.

$$\forall X0. (l1\_incsp\_1 X0) \Rightarrow (m1\_subset\_1 (u3\_incsp\_1 X0) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (u1\_incsp\_1 X0) (u2\_incsp\_1 X0)))) \tag{2}$$

Assume the following.

$$\forall X0. (l1\_incsp\_1 X0) \Rightarrow (\neg v1\_xboole\_0 (u2\_incsp\_1 X0)) \tag{3}$$

Assume the following.

$$\forall X0. (l1\_incsp\_1 X0) \Rightarrow (\neg v1\_xboole\_0 (u1\_incsp\_1 X0)) \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1\_incsp\_1 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_incsp\_1 \\ & X0)) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (u2\_incsp\_1 X0)) \Rightarrow ((r1\_incsp\_1 \\ & X0 X1 X2) \Leftrightarrow (k1\_domain\_1 (u1\_incsp\_1 X0) (u2\_incsp\_1 X0) X1 X2 \in u3\_incsp\_1 \\ & X0)))) \end{aligned} \tag{5}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(l1\_incsp\_1 X0) \Rightarrow (\forall X1.(l1\_incsp\_1 X1) \Rightarrow ((g1\_incsp\_1 \\ & (u1\_incsp\_1 X0) (u2\_incsp\_1 X0) (u3\_incsp\_1 X0) = g1\_incsp\_1 (u1\_incsp\_1 \\ & X1) (u2\_incsp\_1 X1) (u3\_incsp\_1 X1)) \Rightarrow (\forall X2.(m1\_subset\_1 \\ & X2 (u1\_incsp\_1 X0)) \Rightarrow (\forall X3.(m1\_subset\_1 X3 (u1\_incsp\_1 X1)) \Rightarrow \\ & ((X2 = X3) \Rightarrow (\forall X4.(m1\_subset\_1 X4 (u2\_incsp\_1 X0)) \Rightarrow (\forall X5. \\ & (m1\_subset\_1 X5 (u2\_incsp\_1 X1)) \Rightarrow (((X4 = X5) \wedge (r1\_incsp\_1 X0 X2 \\ & X4)) \Rightarrow (r1\_incsp\_1 X1 X3 X5)))))))))) \end{aligned}$$