

t55\_armstrng  
(TMGxHJ8A2BUaxPLtQTqVi4wvfFHB5thMrRW)

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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  $k9\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $k14\_armstrng : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_armstrng : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. k9\_setfam\_1 X0 = k1\_zfmisc\_1 X0 \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k9\_setfam\_1 X0) (k9\_setfam\_1 X0)))) \Rightarrow (k14\_armstrng X0 X1 = ReplSep \\ & (toset (\lambda X2 : \iota. m1\_subset\_1 X2 (k1\_zfmisc\_1 X0))) (\lambda X2 : \\ & \iota. \exists X3. (m1\_subset\_1 X3 (k1\_zfmisc\_1 X0)) \wedge (\exists X4. \\ & (m1\_subset\_1 X4 (k1\_zfmisc\_1 X0)) \wedge ((k6\_armstrng X0 X3 X4 \in X1) \wedge \\ & ((r1\_tarski X3 X2) \wedge (\neg r1\_tarski X4 X2)))))) (\lambda X2 : \iota. X2) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 (k9\_setfam\_1 X0) (k9\_setfam\_1 X0)))) \Rightarrow ((X1 \in k14\_armstrng \\ & X0 X2) \Rightarrow ((m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \wedge (\exists X3. (m1\_subset\_1 \\ & X3 (k1\_zfmisc\_1 X0)) \wedge (\exists X4. (m1\_subset\_1 X4 (k1\_zfmisc\_1 \\ & X0)) \wedge ((k6\_armstrng X0 X3 X4 \in X2) \wedge ((r1\_tarski X3 X1) \wedge (\neg r1\_tarski \\ & X4 X1))))))) \end{aligned}$$