t14_armstrng (TMHLfkHKuaQsPdm6Ywnr6a4jJREHZiYG5XG)

October 27, 2020

Let $k7\_armstrng : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_armstrng : \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r3\_armstrng : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.k7\_armstrng\ X0 = ReplSep2\ (toset\ (\lambda X1 : \iota.m1\_subset\_1\ X1\ (k4\_armstrng\ X0)))\ (\lambda X1 : \iota.toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ (k4\_armstrng\ X0)))\ (\lambda X1 : \iota.\lambda X2 : \iota.r3\_armstrng\ X0\ X2\ X1)\ (\lambda X1 : \iota.\lambda X2 : \iota.k4\_tarski\ X1\ X2) \tag{1}$$

Theorem 1

$$\forall X0.\forall X1.(X1 \in k7\_armstrng\ X0) \Leftrightarrow (\exists X2.(m1\_subset\_1\ X2\ (k4\_armstrng\ X0)) \wedge (\exists X3.(m1\_subset\_1\ X3\ (k4\_armstrng\ X0)) \wedge ((X1 = k4\_tarski\ X2\ X3) \wedge (r3\_armstrng\ X0\ X3\ X2))))$$