

## t25\_afproj

(TMUA63PigeXogLewAYqyCYVyHVuFA284Bbc)

October 27, 2020

Let  $v7\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v1\_diraf : \iota \Rightarrow o$  be given. Let  $l1\_analoaf : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u2\_incsp\_1 : \iota \Rightarrow \iota$  be given. Let  $k14\_afproj : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k13\_afproj : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k6\_afproj : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_aff\_4 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $v1\_aff\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v7\_struct\_0 X0) \wedge ((v1\_diraf X0) \wedge (l1\_analoaf X0))) \Rightarrow \\ & (\forall X1. (m1\_subset\_1 X1 (u2\_incsp\_1 (k14\_afproj X0))) \Leftrightarrow (\exists X2. \\ & (m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \wedge ((X1 = k6\_afproj \\ & X0 X2) \wedge (v1\_aff\_4 X2 X0)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v7\_struct\_0 X0) \wedge ((v1\_diraf X0) \wedge (l1\_analoaf X0))) \Rightarrow \\ & (\forall X1. (m1\_subset\_1 X1 (u2\_incsp\_1 (k13\_afproj X0))) \Leftrightarrow (\neg \\ & \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ( \\ & (\neg (X1 = k4\_tarski X2 np\_1) \wedge (v1\_aff\_1 X2 X0)) \wedge (\neg (X1 = k4\_tarski \\ & (k6\_afproj X0 X2) np\_2) \wedge (v1\_aff\_4 X2 X0)))) \end{aligned} \tag{2}$$

### Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v7\_struct\_0 X0) \wedge ((v1\_diraf X0) \wedge (l1\_analoaf X0))) \Rightarrow \\ & (\forall X1. (m1\_subset\_1 X1 (u2\_incsp\_1 (k14\_afproj X0))) \Rightarrow (m1\_subset\_1 \\ & (k4\_tarski X1 np\_2) (u2\_incsp\_1 (k13\_afproj X0)))) \end{aligned}$$