

t25_pua2mss1

(TMHvZXfxP4x7dc3bwVRvkio6NMGAJyhgSjA)

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Let $v2_unialg_1 : \iota \Rightarrow o$ be given. Let $v4_unialg_1 : \iota \Rightarrow o$ be given. Let $l1_unialg_1 : \iota \Rightarrow o$ be given. Let $m3_pua2mss1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_eqrel_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k9_pua2mss1 : \iota \Rightarrow \iota$ be given. Let $m1_pua2mss1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k1_pua2mss1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_unialg_1 : \iota \Rightarrow \iota$ be given. Let $r2_pua2mss1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_relat_2 : \iota \Rightarrow o$ be given. Let $v8_relat_2 : \iota \Rightarrow o$ 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 $m1_eqrel_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v2_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 \\ & X0))) \Rightarrow (\forall X1.(m1_pua2mss1 X1 (k3_finseq_2 (u1_struct_0 \\ & X0)) (u1_struct_0 X0) (k1_pua2mss1 (u1_struct_0 X0) (u1_unialg_1 \\ & X0))) \Rightarrow (r2_pua2mss1 (u1_struct_0 X0) X1 (k8_eqrel_1 (u1_struct_0 \\ & X0) (k9_pua2mss1 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 \\ & X0))) \Rightarrow ((v1_partfun1 (k9_pua2mss1 X0) (u1_struct_0 X0)) \wedge ((v3_relat_2 \\ & (k9_pua2mss1 X0)) \wedge (v8_relat_2 (k9_pua2mss1 X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 \\ & X0))) \Rightarrow (m1_subset_1 (k9_pua2mss1 X0) (k1_zfmisc_1 (k2_zfmisc_1 \\ & (u1_struct_0 X0) (u1_struct_0 X0)))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v3_relat_2 X1) \wedge ((v8_relat_2 X1) \wedge ((v1_partfun1 \\ & X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \Rightarrow \\ & (m1_eqrel_1 (k8_eqrel_1 X0 X1) X0) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v2_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 \\
& X0))) \Rightarrow (\forall X1.(m1_eqrel_1 X1 (u1_struct_0 X0)) \Rightarrow ((m3_pua2mss1 \\
& X1 X0) \Leftrightarrow (\forall X2.(m1_pua2mss1 X2 (k3_finseq_2 (u1_struct_0 \\
& X0)) (u1_struct_0 X0) (k1_pua2mss1 (u1_struct_0 X0) (u1_unialg_1 \\
& X0))) \Rightarrow (r2_pua2mss1 (u1_struct_0 X0) X2 X1)))) \quad (5)
\end{aligned}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v2_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 \\
& X0))) \Rightarrow (m3_pua2mss1 (k8_eqrel_1 (u1_struct_0 X0) (k9_pua2mss1 \\
& X0)) X0)
\end{aligned}$$