

l57_poset_1

(TMY3NXGd5D1kUTMGySGP5Q6kLUSBhKrGnXN)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v1_poset_1 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v6_orders_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_poset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_poset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_yellow_0 : \iota \Rightarrow \iota$ be given.

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v1_orders_2 X0) \wedge ((v3_orders_2 \\
& X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v1_poset_1 X0) \wedge (\\
& l1_orders_2 X0)))))) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge ((v6_orders_2 \\
& X1 (k6_poset_1 X0 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& (k6_poset_1 X0 X0)))))) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow (\forall X3. \\
& \forall X4. \neg (X3 = ReplSep (toset (\lambda X5 : \iota. m1_subset_1 X5 (u1_struct_0 \\
& X0))) (\lambda X5 : \iota. \exists X6.(m1_subset_1 X6 (u1_struct_0 (k6_poset_1 \\
& X0 X0))) \wedge (\exists X7.((v1_funct_1 X7) \wedge ((v1_funct_2 X7 (u1_struct_0 \\
& X0) (u1_struct_0 X0)) \wedge ((v2_poset_1 X7 X0 X0) \wedge (m1_subset_1 X7 (\\
& k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)))))) \wedge \\
& ((X7 = X6) \wedge ((X6 \in X1) \wedge (X5 = k1_funct_1 (k9_funct_7 X7 X2) (k3_yellow_0 \\
& X0)))))) (\lambda X5 : \iota. X5)) \wedge ((X4 \in X3) \wedge (\forall X5.(m1_subset_1 \\
& X5 (u1_struct_0 X0)) \Rightarrow (\forall X6.((v1_funct_1 X6) \wedge ((v1_funct_2 \\
& X6 (u1_struct_0 X0) (u1_struct_0 X0)) \wedge ((v2_poset_1 X6 X0 X0) \wedge (\\
& m1_subset_1 X6 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 \\
& X0)))))) \Rightarrow (\neg (X4 = X5) \wedge ((X6 \in X1) \wedge (X5 = k1_funct_1 (k9_funct_7 X6 \\
& X2) (k3_yellow_0 X0))))))))))
\end{aligned}$$