

t35_modelc_1

(TMF3uw9FngWqoHPA347ckr6orpFmEZVPQni)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k30_modelc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k48_modelc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r3_modelc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k51_modelc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_partfun1 X1 X0) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \Rightarrow (\forall X2. \\ & ((\neg v1_xboole_0 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k30_modelc_1 \\ & X0)))) \Rightarrow (\forall X3. (m1_subset_1 X3 (u1_struct_0 (k48_modelc_1 \\ & X0 X1 X2)))) \Rightarrow (k51_modelc_1 X0 X1 X2 X3 = ReplSep (toset (\lambda X4 : \iota. \\ & m1_subset_1 X4 X0)) (\lambda X4 : \iota. r3_modelc_1 X0 X1 X2 X4 X3) (\lambda X4 : \\ & \iota. X4)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_partfun1 X1 X0) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \Rightarrow (\forall X2. \\ & ((\neg v1_xboole_0 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k30_modelc_1 \\ & X0)))) \Rightarrow (\forall X3. (m1_subset_1 X3 (u1_struct_0 (k48_modelc_1 \\ & X0 X1 X2)))) \Rightarrow (\forall X4. (m1_subset_1 X4 (u1_struct_0 (k48_modelc_1 \\ & X0 X1 X2)))) \Rightarrow (\forall X5. (m1_subset_1 X5 X0) \Rightarrow ((r3_modelc_1 X0 \\ & X1 X2 X5 X3) \Rightarrow (r3_modelc_1 X0 X1 X2 X5 X4))) \Rightarrow (r1_tarski (k51_modelc_1 \\ & X0 X1 X2 X3) (k51_modelc_1 X0 X1 X2 X4)))))) \end{aligned}$$