

t15_dynkin
(TMM5sLRizRCYHjXpGLGmsK2stCczN6bkrq5)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m1_dynkin : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_finsub_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k5_numbers : \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v1_prob_2 : \iota \Rightarrow o$ be given. Let $k1_prob_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. k3_tarski (k2_xboole_0 X0 X1) = k2_xboole_0 (k3_tarski X0) (k3_tarski X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (3)$$

Assume the following.

$$k3_tarski k1_xboole_0 = k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (5)$$

Assume the following.

$$\forall X0. k3_tarski (k1_tarski X0) = X0 \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (\forall X3. \\ ((\neg v1_xboole_0 X3) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k1_zfmisc_1 \\ X0)))) \Rightarrow (((m1_dynkin X3 X0) \wedge ((v2_finsub_1 X3) \wedge ((X1 \in X3) \wedge (X2 \in \\ X3)))) \Rightarrow (k4_subset_1 X0 X1 X2 \in X3)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0 : \iota \Rightarrow o. \forall X1. ((v1_finset_1 X1) \wedge ((X0 k1_xboole_0) \wedge \\ (\forall X2. \forall X3. ((X2 \in X1) \wedge ((r1_tarski X3 X1) \wedge (X0 X3)) \Rightarrow \\ (X0 (k2_xboole_0 X3 (k1_tarski X2)))))) \Rightarrow (X0 X1) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 \\ X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 X0))) \Rightarrow (k4_subset_1 X0 X1 X2 = \\ k2_xboole_0 X1 X2) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_dynkin X1 X0) \Rightarrow (\\ m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0)))) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ (k1_zfmisc_1 X0))) \Rightarrow ((m1_dynkin X1 X0) \Leftrightarrow ((\forall X2. ((v1_funct_1 \\ X2) \wedge ((v1_funct_2 X2 k5_numbers (k9_setfam_1 X0)) \wedge (m1_subset_1 \\ X2 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (k9_setfam_1 X0)))))) \Rightarrow \\ (((r1_tarski (k10_xtuple_0 X2) X1) \wedge (v1_prob_2 X2)) \Rightarrow (k1_prob_1 \\ X0 X2 \in X1))) \wedge ((\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (\\ (X2 \in X1) \Rightarrow (k3_subset_1 X0 X2 \in X1))) \wedge (k1_xboole_0 \in X1)))))) \end{aligned} \quad (11)$$

Theorem 1

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0)))) \Rightarrow (((m1_dynkin \\ X1 X0) \wedge (v2_finsub_1 X1)) \Rightarrow (\forall X2. (v1_finset_1 X2) \Rightarrow ((r1_tarski \\ X2 X1) \Rightarrow (k3_tarski X2 \in X1)))))) \end{aligned}$$