

t11\_dynkin  
(TMTpj9fN1NhPSQwQBUCheg9JtjLhVsSmEgb)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m1\_dynkin : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  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  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_prob\_2 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0.k9\_setfam\_1 X0 = k1\_zfmisc\_1 X0 \quad (3)$$

Assume the following.

$$\forall X0.\exists X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \wedge (v1\_xboole\_0 X1) \quad (4)$$

Assume the following.

$$\forall X0.\neg v1\_xboole\_0 (k1\_zfmisc\_1 X0) \quad (5)$$

Assume the following.

$$\forall X0.m1\_subset\_1 (k9\_setfam\_1 X0) (k1\_zfmisc\_1 (k1\_zfmisc\_1 X0)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (m1\_subset\_1 (k3\_subset\_1 X0 X1) (k1\_zfmisc\_1 X0)) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1\_funct\_1 X1)\wedge((v1\_funct\_2 X1 k5\_numbers \\ (k9\_setfam\_1 X0))\wedge(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k5\_numbers (k9\_setfam\_1 X0))))))\Rightarrow(m1\_subset\_1 (k1\_prob\_1 X0 \\ X1) (k1\_zfmisc\_1 X0)) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.(\neg v1\_xboole\_0 X0)\Rightarrow(\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ (k1\_zfmisc\_1 X0)))\Rightarrow((m1\_dynkin X1 X0)\Leftrightarrow((\forall X2.((v1\_funct\_1 \\ X2)\wedge((v1\_funct\_2 X2 k5\_numbers (k9\_setfam\_1 X0))\wedge(m1\_subset\_1 \\ X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers (k9\_setfam\_1 X0))))))\Rightarrow \\ ((r1\_tarski (k10\_xtuple\_0 X2) X1)\wedge(v1\_prob\_2 X2))\Rightarrow(k1\_prob\_1 \\ X0 X2 \in X1)))\wedge((\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 X0))\Rightarrow( \\ (X2 \in X1)\Rightarrow(k3\_subset\_1 X0 X2 \in X1)))\wedge(k1\_xboole\_0 \in X1)))) \end{aligned} \quad (9)$$

**Theorem 1**  $\forall X0.(\neg v1\_xboole\_0 X0)\Rightarrow(m1\_dynkin (k9\_setfam\_1 X0) X0)$ .