

t9\_zfmodel1  
(TMTzJzu9TfUXJ9B7vS1dJPymTk9SJsc8ag5)

October 27, 2020

Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r2\_zf\_model : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k10\_zf\_model : \iota$  be given. Let  $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow ((v1\_ordinal1 X0) \Rightarrow ((r2\_zf\_model \\ X0 k10\_zf\_model) \Leftrightarrow (\forall X1. (m1\_subset\_1 X1 X0) \Rightarrow (k3\_xboole\_0 \\ X0 (k1\_zfmisc\_1 X1) \in X0)))) \end{aligned} \quad (1)$$

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.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (3)$$

**Theorem 1**

$$\begin{aligned} \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow ((v1\_ordinal1 X0) \Rightarrow ((r2\_zf\_model \\ X0 k10\_zf\_model) \Leftrightarrow (\forall X1. (X1 \in X0) \Rightarrow (k3\_xboole\_0 X0 (k1\_zfmisc\_1 \\ X1) \in X0)))) \end{aligned}$$