

t31_stirl2_1 (TMXmBCDyP-
JAaLX2nERsQfUwkuA7wS42RZ1n)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k3_stirl2_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_funct_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_stirl2_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_nat_1 : \iota \Rightarrow \iota$ be given. Let $k1_stirl2_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_seq_4 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (2)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow ((v1_xboole_0 (k1_card_1 X0)) \wedge (v1_card_1 (k1_card_1 X0))) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (k3_stirl2_1 \\ X0 X1 = k1_card_1 (ReplSep (toset (\lambda X2 : \iota.(v1_funct_1 X2)) \wedge \\ ((v1_funct_2 X2 X0 X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ X0 X1)))))) (\lambda X2 : \iota.(v2_funct_2 X2 X1) \wedge (v1_stirl2_1 X2 X0 \\ X1)) (\lambda X2 : \iota.X2)))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \quad (6)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(v7_ordinal1\ X1) \Rightarrow (\forall X2. \\
& ((v1_funct_1\ X2) \wedge ((v1_funct_2\ X2\ X0\ X1) \wedge (m1_subset_1\ X2\ (k1_zfmisc_1 \\
& (k2_zfmisc_1\ X0\ X1)))))) \Rightarrow ((v1_stirl2_1\ X2\ X0\ X1) \Leftrightarrow (((X0 = k6_numbers) \Rightarrow \\
& (X1 = k6_numbers)) \wedge ((X1 = k6_numbers) \Rightarrow (X0 = k6_numbers)) \wedge (\forall X3. \\
& (v7_ordinal1\ X3) \Rightarrow (\forall X4.(v7_ordinal1\ X4) \Rightarrow (\neg(X3 \in k2_rerset_1 \\
& X1\ X2) \wedge ((X4 \in k2_rerset_1\ X1\ X2) \wedge (\neg r1_xxreal_0\ X4\ X3) \wedge (r1_xxreal_0 \\
& (k5_nat_1\ (k1_stirl2_1\ X0\ X1\ X2\ (k1_seq_4\ X4)))\ (k5_nat_1\ (k1_stirl2_1 \\
& X0\ X1\ X2\ (k1_seq_4\ X3)))))))))))))
\end{aligned} \tag{7}$$

Assume the following.

$$\forall X0.(v1_xboole_0\ X0) \Rightarrow (v7_ordinal1\ X0) \tag{8}$$

Theorem 1

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (k3_stirl2_1\ X0\ k6_numbers = k6_numbers))$$