

t57_measure6 (TM-
GYjG3Qp15rwh7X2oo9oP7eeToGn7MRaK)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v2_rcomp_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_measure6 : \iota \Rightarrow \iota$ be given. Let $k1_setfam_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (r1_tarski (k1_setfam_1 X1) X0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (k6_measure6 \\ X0 = k1_setfam_1 (ReplSep (toset (\lambda X1 : \iota. m1_subset_1 X1 (k1_zfmisc_1 \\ k1_numbers)))) (\lambda X1 : \iota. (r1_tarski X0 X1) \wedge (v2_rcomp_1 X1)) \\ (\lambda X1 : \iota. X1))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (\forall X1. \\ ((v2_rcomp_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 k1_numbers))) \Rightarrow \\ ((r1_tarski X0 X1) \Rightarrow (r1_tarski (k6_measure6 X0) X1))) \end{aligned}$$