

t7_dist_1

(TMJ4R8qmeNS2D9q5nBQuZ7f4LDDf1Nw7UJp)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_dist_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_dist_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_finset_1 X0) \Rightarrow (\forall X1.(m2_finseq_1 X1 X0) \Rightarrow \\ (k5_dist_1 X0 X1 = ReplSep (toSet (\lambda X2 : \iota.m2_finseq_1 X2 X0)) \quad (1) \\ (\lambda X2 : \iota.r1_dist_1 X0 X1 X2) (\lambda X2 : \iota.X2))) \end{aligned}$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_finset_1 X0) \Rightarrow (\forall X1.(m2_finseq_1 X1 X0) \Rightarrow \\ (\forall X2.(m2_finseq_1 X2 X0) \Rightarrow ((r1_dist_1 X0 X1 X2) \Leftrightarrow (X2 \in k5_dist_1 \\ X0 X1)))) \end{aligned}$$