t119_seq_4 (TMLS5MYn6pwbL8YibntGx4eD6Xv4siLgXDs)

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Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_numbers : \iota$ be given. Let $k14\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k25\_seq\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k24\_seq\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k14\_seq\_4\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k1\_numbers) \Rightarrow (k25\_seq\_4\ X0\ X1\ X2 = ReplSep\ (toset\ (\lambda X3 : \iota.\ m2\_finseq\_2\ X3\ k2\_numbers\ (k14\_seq\_4\ X0)))\ (\lambda X3 : \iota.\neg r1\_xxreal\_0\ X2\ (k24\_seq\_4\ X0\ X3\ X1))\ (\lambda X3 : \iota.X3)))) \tag{1}$$

Theorem 1

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ k1\_numbers) \Rightarrow (\forall X2.(m2\_finseq\_2\ X2\ k2\_numbers\ (k14\_seq\_4\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k14\_seq\_4\ X0))) \Rightarrow ((X2 \in k25\_seq\_4\ X0\ X3\ X1) \Leftrightarrow (\neg r1\_xxreal\_0\ X1\ (k24\_seq\_4\ X0\ X2\ X3))))))$$