l82_finseq_6 (TMSMV3wgrQMV6zhcz1G3t2m4SqPqm5uxbLe)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_rfinseq : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(\neg v1\_xboole\_0\ X1) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ X1) \Rightarrow (\forall X3.(m2\_finseq\_1\ X3\ X1) \Rightarrow ((X2 \in k10\_xtuple\_0\ X3) \Rightarrow ((r1\_xxreal\_0\ (k4\_finseq\_4\ X3\ X2)\ X0) \vee (k4\_finseq\_4\ X3\ X2 = k1\_nat\_1\ X0\ (k4\_finseq\_4\ (k2\_rfinseq\ X1\ X0\ X3)\ X2)))))))) \tag{1}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(\neg v1\_xboole\_0\ X1) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ X1) \Rightarrow (\forall X3.(m2\_finseq\_1\ X3\ X1) \Rightarrow ((X2 \in k10\_xtuple\_0\ X3) \Rightarrow ((r1\_xxreal\_0\ (k4\_finseq\_4\ X3\ X2)\ X0) \vee (k1\_nat\_1\ X0\ (k4\_finseq\_4\ (k2\_rfinseq\ X1\ X0\ X3)\ X2) = k4\_finseq\_4\ X3\ X2)))))))$$