t20_latsum_1 (TMUHzfCpqsb1h8Smzt3XRAXTAHNwPqf6KxQ)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v3\_orders\_2 : \iota \Rightarrow o$ be given. Let $v4\_orders\_2 : \iota \Rightarrow o$ be given. Let $v5\_orders\_2 : \iota \Rightarrow o$ be given. Let $v1\_lattice3 : \iota \Rightarrow o$ be given. Let $v1\_yellow\_0 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v12\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_yellow\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_yellow\_0\ X0) \wedge (l1\_orders\_2\ X0)))))) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge ((v1\_waybel\_0\ X1\ X0) \wedge ((v12\_waybel\_0\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))))) \Rightarrow (k3\_yellow\_0\ X0 \in X1)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k3\_xboole\_0\ X0\ X1) \Leftrightarrow (\forall X3.\ (X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (X3 \in X1))) \tag{2}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v1\_yellow\_0\ X0) \wedge (l1\_orders\_2\ X0))))))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v3\_orders\_2\ X1) \wedge ((v4\_orders\_2\ X1) \wedge ((v5\_orders\_2\ X1) \wedge ((v1\_lattice3\ X1) \wedge ((v1\_yellow\_0\ X1) \wedge (l1\_orders\_2\ X1))))))) \Rightarrow (((\neg v1\_xboole\_0\ (k3\_xboole\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))) \wedge ((v1\_waybel\_0\ (k3\_xboole\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\ X1) \wedge ((v12\_waybel\_0\ (k3\_xboole\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\ X1) \wedge (m1\_subset\_1\ (k3\_xboole\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X1))))))) \Rightarrow (k3\_yellow\_0\ X1 \in u1\_struct\_0\ X0)))$$