t4_vectmetr (TMdo2ug4TTCu3Kuc1Hp4QWqon9AdeJErVrN)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v6\_metric\_1 : \iota \Rightarrow o$ be given. Let $v7\_metric\_1 : \iota \Rightarrow o$ be given. Let $l1\_metric\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_funct\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_vectmetr : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_tops\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge ((v6\_metric\_1\ X0) \wedge ((v7\_metric\_1\ X0) \wedge (l1\_metric\_1\ X0)))) \wedge ((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)) \wedge ((v2\_funct\_2\ X1\ (u1\_struct\_0\ X0)) \wedge ((v3\_vectmetr\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)))))))))) \Rightarrow ((v1\_funct\_1\ (k2\_tops\_2\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ X1)) \wedge ((v1\_funct\_2\ (k2\_tops\_2\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ X1)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)) \wedge ((v2\_funct\_2\ (k2\_tops\_2\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ X1)\ (u1\_struct\_0\ X0)) \wedge (v3\_vectmetr\ (k2\_tops\_2\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ X1)\ X0))))) \tag{1}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v6\_metric\_1\ X0) \wedge ((v7\_metric\_1\ X0) \wedge (l1\_metric\_1\ X0)))) \Rightarrow (\forall X1.((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)) \wedge ((v2\_funct\_2\ X1\ (u1\_struct\_0\ X0)) \wedge ((v3\_vectmetr\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)))))))) \Rightarrow ((v2\_funct\_2\ (k2\_tops\_2\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ X1)\ (u1\_struct\_0\ X0)) \wedge (v3\_vectmetr\ (k2\_tops\_2\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ X1)\ X0)))$$