

# ERRATUM TO "THE NONSTANDARD THEORY OF TOPOLOGICAL VECTOR SPACES"

BY

C. WARD HENSON AND L. C. MOORE, JR.

The authors are indebted to Steven F. Bellenot for pointing out an error in the proof of Theorem 6.2 (i). (The  $\sigma(F, E)$ -continuity of  $g$  on  $U^0$  need not imply the  $\sigma(F, E)$ -continuity of  $g$  on the span of  $U^0$ .)

The following is a brief sketch of a proof of Theorem 6.2 (i). By Theorem 16.8 of [2], for each  $\theta$ -neighborhood  $U$  of 0, each finite subset  $y_1, y_2, \dots, y_n$  of  $F$  and each  $\epsilon > 0$ , there exists  $x \in E$  such that  $|\langle x, y \rangle - \langle g, y \rangle| < \epsilon$  for all  $y \in \text{span} \{y_1, \dots, y_n\} + U^0$ . In particular  $\langle x, y_i \rangle = \langle g, y_i \rangle$  for  $i = 1, 2, \dots, n$ . Hence there exists  $p \in {}^*E$  such that  $\langle p, q \rangle = {}_1 \langle g, q \rangle$  for  $q \in M_\theta$  and  $\langle p, {}^*y \rangle = \langle g, y \rangle$  for  $y \in F$ . Then  $p \in [M_\theta \cap \mu_{\sigma(F, E)}(0)]^i = \text{pns}_\theta({}^*E)$ , since  $g$  is  $\sigma(F, E)$ -continuous on each  $\theta$ -equicontinuous subset of  $F$ , and so  $p$  satisfies the required conditions.

## REFERENCES

1. C. Ward Henson and L. C. Moore, Jr., *The nonstandard theory of topological vector spaces*, Trans. Amer. Math. Soc. 172 (1972), 405-435.
2. J. L. Kelley, and I. Namioka, *Linear topological spaces*, University Series in Higher Math., Van Nostrand, Princeton, N. J., 1963. MR 29 #3851.

DEPARTMENT OF MATHEMATICS, DUKE UNIVERSITY, DURHAM, NORTH CAROLINA 27706

(Current address of C. W. Henson)

*Current address* (L. C. Moore, Jr.): Department of Mathematics, California Institute of Technology, Pasadena, California 91109