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C. J. HIMMELBERG

Correction to : “Precompact contraction of metric uniformities and the continuity of $F(t, x)$ ”

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**Correction to: Precompact Contraction
of Metric Uniformities and the Continuity of $F(t, x)$.**

C. J. HIMMELBERG

The hypotheses of Theorem 2 of the paper mentioned above are incomplete. The correct statement is the following:

THEOREM. Let T be a compact Hausdorff space with Radon measure μ , X a Polish space, and E a separable metric space. Let $F: T \times X \rightarrow E$ be a multifunction such that $t \rightarrow F(t, x)$ defines a measurable multifunction for each $x \in X$ and $x \rightarrow F(t, x)$ defines a continuous multifunction for each $t \in T$. Then for each $\varepsilon > 0$ there exists a closed subset T_ε of T such that $\mu(T - T_\varepsilon) < \varepsilon$ and $F|_{T_\varepsilon \times X}$ is lower semicontinuous. If, in addition, F is assumed to have closed values, then $F|_{T_\varepsilon \times X}$ has closed graph and is lower semicontinuous. (If F has compact values, then $F|_{T_\varepsilon \times X}$ is continuous.)

The only change from Theorem 2 of the original paper [1] is that there T is assumed to be locally compact. However, the proof requires T to be compact.

REFERENCE

- [1] C. J. HIMMELBERG, *Precompact contraction of metric uniformities and the continuity of $F(t, x)$* , Rend. Sem. Mat. Univ. Padova, **50** (1973), 185-188.