

**CORRIGENDUM  
TO  
MULTIPLICATON OPERATORS AND DYNAMICAL SYSTEMS**

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Throughout Section 2 of [1],  $X$  should be taken as a completely regular Hausdorff  $K_{\mathbb{R}}$ -space. The lines 1 through 26 in the proof of Theorem 2.1 of the paper should be replaced by the following lines.

PROOF. Suppose the condition holds. Firstly we show that  $M_{\psi}$  maps  $CV_b(X, T)$  into itself. Let  $f \in CV_b(X, T)$ . Since  $X$  is a  $K_{\mathbb{R}}$ -space, it is enough to show that  $M_{\psi}f$  is continuous on each compact subset of  $X$ . Let  $K$  be an arbitrary compact subset of  $X$  and let  $\{x_{\alpha} : \alpha \in \Delta\}$  be a net in  $K$  such that  $x_{\alpha} \rightarrow x$  in  $K$ . Fix  $p \in cs(T)$  and  $\epsilon > 0$ . Let  $B = \{f(x_{\alpha}) : \alpha \in \Delta\}$ . Then  $B$  is a bounded set in  $T$ . Since  $f(x_{\alpha}) \rightarrow f(x)$  in  $T$ , there exists  $\alpha_1 \in \Delta$  such that  $p[\psi(x)(f(x_{\alpha}) - f(x))] < \epsilon/2$ , for every  $\alpha \geq \alpha_1$ . Also, since  $\psi : X \rightarrow B(T)$  is continuous, there exists  $\alpha_2 \in \Delta$  such that  $p[(\psi(x_{\alpha}) - \psi(x))(f(x_{\alpha}))] < \epsilon/2$ , for every  $\alpha \geq \alpha_2$ . Let  $\alpha_0 \in \Delta$  be such that  $\alpha_0 \geq \alpha_1$  and  $\alpha_0 \geq \alpha_2$ . Then clearly  $p[\psi(x_{\alpha})f(x_{\alpha}) - \psi(x)f(x)] < \epsilon$ , for every  $\alpha \geq \alpha_0$ . This proves that  $\psi f \in C(X, T)$ . Let  $v \in V$  and  $p \in cs(T)$ . Then there exists  $u \in V$  and  $q \in cs(T)$  such that  $v(x)p(\psi(x)y) \leq u(x)q(y)$ , for every  $x \in X$  and  $y \in T$ . Thus  $\|\psi f\|_{v,p} = \sup\{v(x)p(\psi(x)f(x)) : x \in X\} \leq \sup\{u(x)q(f(x)) : x \in X\} < \infty$ . This implies that  $\psi f \in CV_b(X, T)$ . Clearly  $M_{\psi}$  is linear on  $CV_b(X, T)$ .

**References**

- [1] R. K. Singh and J. S. Manhas, 'Multiplication operators and dynamical systems', *J. Austral. Math. Soc. (Ser. A)* **53** (1992), 92–102.

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