CORRECTION TO: “PLANE CURVES AND REMOVABLE SETS”

ROBERT P. KAUFMAN
Proof of Lemma 1a. Let $T_t$ be the group of $*$-automorphisms generated by $A$. There exists a group of homeomorphisms of $[0,1]$, $h(x,t)$, such that

$$(T_t f)(x) = f(h(x,t)),$$

for $f$ in $C[0,1]$, $x$ in $[0,1]$ $t$ real.

Suppose $f$ is in $D(A)$. Let $f_x(t) \equiv (T_t f)(x)$, $h_x(t) \equiv h(x,t)$. Note that

(*)

$f_x = f \circ h_x$.

Since $f$ is in $D(A)$, $f_x'(t)$ exists, and equals $(-A f)(h(x,t))$, for all $x, t$. Also $h_x'(t) = -p(h(x,t))$, since

$$p(h(x,t)) = T_t Af_1(x) = -\frac{\partial}{\partial t} T_t f_1(x) = -\frac{\partial}{\partial t} h(x,t).$$

If $p(x) \neq 0$, then by the inverse function theorem, $h_x^{-1}$ exists, and is differentiable, in a neighborhood of $h_x(0)$. Thus $f = f_x \circ h_x^{-1}$ is differentiable, in a neighborhood of $h_x(0)$. Differentiating both sides of (*) at $t = 0$, gives

$$(Af)(h(x,0)) = f'(h(x,0))p(h(x,0)) \text{ or } (Af)(x) = p(x)f'(x),$$
as desired.

ERRATA
CORRECTION TO
PLANE CURVES AND REMOVABLE SETS

R. KAUFMAN

Volume 125 (1986), 409–413

In Theorem 2, p. 409,
lim sup $\omega(\psi)$$\psi(h)$ should be lim inf $\omega(h)/\psi(h)$.
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