ERRATA: “ON THE HOLOMORPHY OF MAPS FROM A COMPLEX TO A REAL MANIFOLD”

Subhashis Nag
On p. 198 (fourth line from the bottom) of the quoted paper I erred in saying that $d_0\omega^\#$ varies continuously with $\theta$ near $\theta = 0$. Nevertheless, as pointed out to me by C. J. Earle, continuous dependence of $\ker d_\theta \Phi$ on $\theta$ is true because the implicit function theorem guarantees that the fibers of $\Phi$ are $C^1$ submanifolds in $M(\Gamma)$. So the rest of the argument holds unchanged.

Interestingly, no continuous dependence of any kind is needed to verify that $\Phi$ induces a well-defined almost complex structure on $T(\Gamma')$. Indeed let $G_\theta = d_0\omega^\#(G_0)$. Then

$$\ker d_\theta \Phi \oplus G_\theta = L^\infty(\Gamma) = K_0 \oplus G_0.$$ But note $d_\theta \Phi(g_\theta) = d_0 \Phi(g_0)$, (for any $g_0 \in G_0$ and $g_\theta \in G_\theta$), if and only if $g_\theta = d_0\omega^\#(g_0)$. Since $d_0\omega^\#$ restricted to $G_0$ is a complex linear isomorphism onto $G_\theta$ we are completely done.
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