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Corrigendum to the paper
“On the reproducing kernel for harmonic functions and
the space of Bloch harmonic functions on the unit ball in R^n ”

(Studia Mathematica 87 (1987), 23–32)

by

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On page 24 we got a formula for the projector P :

$$Pu = c(n) \Delta \left[(|x|^2 - 1) \int_B \frac{(1 - |x|^2|y|^2)u(y) dV_y}{[|x - y|^2 + (1 - |x|^2)(1 - |y|^2)]^{n/2}} \right].$$

In the next step we made a mistake in calculating the above laplacian. The next formula should read

$$Pu = c(n) \int_B \left(\frac{2n(1 - |x|^2|y|^2)^2}{[|x - y|^2 + (1 - |x|^2)(1 - |y|^2)]^{n/2+1}} - \frac{8|x|^2|y|^2}{[|x - y|^2 + (1 - |x|^2)(1 - |y|^2)]^{n/2}} \right) u(y) dV_y,$$

and the formula on the top of page 25 should read

$$K(x, y) = c(n) \left(\frac{2n(1 - |x|^2|y|^2)^2}{[|x - y|^2 + (1 - |x|^2)(1 - |y|^2)]^{n/2+1}} - \frac{8|x|^2|y|^2}{[|x - y|^2 + (1 - |x|^2)(1 - |y|^2)]^{n/2}} \right).$$

The kernel $K(x, y)$ in its correct form satisfies the estimates of page 26 and therefore the other results of the paper remain valid.

I am most grateful to Professor Sheldon Axlen for pointing out this error.

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