Erratum

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Product Integration for the Linear Transport Equation in Slab Geometry

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On page 230 the polynomial $t_n(u)$ should be chosen such that in $[-1, 1]$

$$(1-u^2)^2 |f(u) - t_n(u)| \leq \text{const} \cdot \left(\frac{\sqrt{1-u^2}}{n} \right)^{3-\delta}, \delta > 0 \quad \text{small as we like.}$$

The existence of such a polynomial is guaranteed by Theorem 4.2 in [1] applied to the function $(1-u^2)^2 f(u)$.

Then, the analysis of $R_n^{(2)}(f; s)$ for our kernels $k(s; u)$ leads to the bound

$$\|R_n^{(2)}(f; s)\|_\infty = o(n^{-3}),$$

which is sufficient to prove our convergence result.

On page 231, lines 1[–] and 9[–], replace $O(R^{k+\delta})$ by $O(R^{j+\delta})$ and $\rho = O(n^{-2})$ by the sentence: ρ' sufficiently small.

Reference

1. Hinnemann, E., Gonska, H.H.: Generalization of a theorem of De Vore. In: Chui, C.K., Schumaker, L.L., Ward, J.D., (eds.) Approximation Theory IV, pp. 527–532. London New York: Academic Press 1983