ADDENDUM TO "DIFFERENTIAL-BOUNDARY OPERATORS"

BY

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ABSTRACT. The proof of a lemma and the statement of another were omitted from an earlier paper. This corrects that omission.

Within the paper Differential-boundary operators, Trans. Amer. Math. Soc. 154 (1971), 429–458, the proof of Lemma 6.4 and the statement of Lemma 6.5 were inadvertently omitted. They are as follows.

Lemma 6.4. \( \lim_{Re(\lambda) \to \infty} \hat{H}(x) = 0 \) uniformly for all \( x \) in \([0,1]\).

Proof.

\[
\| \int_0^x e^{-\lambda u} H(u) \, du \| \leq \int_0^x e^{-Re(\lambda)u} \|H(u)\| \, du,
\]

\[
\leq \left[ \int_0^1 e^{-2Re(\lambda)u} \, du \right]^\frac{1}{2} \left[ \int_0^1 \|H(u)\|^2 \, du \right]^\frac{1}{2},
\]

\[
\leq \left[ (e^{-2Re(\lambda)} - 1)/( -2Re(\lambda)) \right]^\frac{1}{2} \left[ \int_0^1 \|H(u)\|^2 \, du \right]^\frac{1}{2},
\]

which approaches 0 as \( Re(\lambda) \to \infty \).

Lemma 6.5. \( \lim_{Re(\lambda) \to \infty} e^{\lambda x}[\hat{H}(1) - \hat{H}(x)] = 0 \) uniformly for all \( x \) in \([0,1]\).

The proof of Lemma 6.5 follows the statement of Lemma 6.4 in the text. The two \( \hat{H} \)'s at the beginning should be \( \hat{H} \).

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