LETTER TO THE EDITORS

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In our paper [1], it is possible to simplify representation (5.1) for the operators $\mu_j(A)$ and write it as follows:

$$\mu_j(A) = \mu^j(A) = j \int_0^\infty \frac{I_j(t)}{t} V(t) dt, \quad (1)$$

where $I_j(t)$ is the Bessel function of order j of imaginary argument. For this purpose, one can use in the last equality in the proof of Theorem 5.1 the fact that the function $(p + \sqrt{p^2 - 1})^{-j}$ is the Laplace transform of the function $\frac{j I_j(t)}{t}$ (for example, see the table in p. 535 of the monograph [2]). After that, Theorem 5.1 will be formulated as follows:

Theorem 5.1. *For C_0 -operator Chebyshev polynomials $U_n(A)$ of the second kind, there exists the uniform operator limit*

$$\mu_j(A) = \lim_{n \rightarrow \infty} U_{n-j}(A) U_n^{-1}(A), \quad 1 \leq j \leq n;$$

this limit satisfies relation (1).

REFERENCES

1. V. A. Kostin and M. N. Nebolsina, “ C_0 -operator orthogonal Chebyshev polynomials and their representations,” *Zap. Nauch. Semin. POMI*, **376**, 64–87 (2010).
2. A. Angot, *Mathematics for Electric and Radio Engineers* [Russian translation], Moscow (1964).

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