

## ERRATA FOR “THE ELLIS–GOHBERG INVERSE PROBLEM FOR MATRIX-VALUED WIENER FUNCTIONS ON THE LINE”

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Pages 1026 and 1027 of the paper [1] contain a few mistakes. Below we present the corrections needed.

- Page 1026, formula (4.1). The plus sign in formula (4.1) should be replaced by a minus sign. In other words, the correct version of [1, formula (4.1)] is

$$g(\lambda) = -(\alpha^{-*}\gamma^*)_+(\lambda) - B_+^*(\lambda I_{n_+} - A_+^*)^{-1}\gamma(A_+^*)^{-1}C_+^*, \quad (1)$$

- Page 1026, line  $\uparrow$  6–5. The symbol  $C_+$  should be replaced by  $-C_+$ . So the correct version of these two lines is:

In that case the solution  $Y_\circ$  of  $J(Y) = -C_+$ , i.e. the equation (3.2), is  $Y_\circ = -C_+\gamma^*(A_+)^{-1}$  and hence  $Y_\circ^* = (\gamma^*(A_+))^{-*}(-C_+^*) = -\gamma(A_+^*)^{-1}C_+^*$ . Formula (4.1) now follows from (3.3).

- Page 1027, line 1. Replace  $\gamma(A_+^*)$  by  $\gamma^*(A_+)$ .
- Page 1027, formula (4.6). The plus sign in the first line of formula (4.6) should be replaced by a minus sign. The second line of formula (4.6) should be

$$= \frac{2(\sqrt{2}+1)}{\lambda+i}.$$

Thus the correct version of [1, formula (4.6)] is

$$g(\lambda) = -(\alpha^{-*}\gamma^*)_+(\lambda) - B_+^*(\lambda - A_+^*)^{-1}\gamma(A_+^*)^{-1}C_+^* = \frac{2(\sqrt{2}+1)}{\lambda+i}. \quad (2)$$

## REFERENCES

- [1] M. A. KAASHOEK AND F. VAN SCHAGEN, *The Ellis-Gohberg inverse problem for matrix-valued Wiener functions on the line*, *Operators and Matrices* **10** (4) (2016), 1009–1042.

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