KANTOROVICH TYPE OPERATOR INEQUALITIES FOR FURUTA INEQUALITY

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Abstract. In this paper, we shall present Kantorovich type operator inequalities for Furuta inequality related to the usual order and the chaotic one in terms of a generalized Kantorovich constant, a generalized condition number and the Specht ratio, in which we use variants of the grand Furuta inequality.

Key words and phrases: Furuta inequality, Grand Furuta inequality, Kantorovich inequality, generalized Kantorovich constant, generalized condition number, Specht ratio.

REFERENCES

[7] T. FURUTA, $A \geq B \geq 0$ assures $(B^*A^pB^r)^{1/q} \geq B^{(p+2r)/q}$ for $r \geq 0$, $p \geq 0$, $q \geq 1$ with $(1+2r)q \geq p + 2r$, Proc. Amer. Math. Soc., 101(1987), 85–88.