A REMARK ON EXTENSION OF ORDER
PRESERVING OPERATOR INEQUALITY

TATSUYA KOIZUMI AND KEIICHI WATANABE

Abstract. We will give an extension of order preserving operator inequality of Furuta type.


Keywords and phrases: Löwner-Heinz inequality, Furuta inequality, order preserving operator inequality.

REFERENCES

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