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Non-commutative Clarkson inequalities for unitarily invariant norms. (English)

Zbl 1054.47011

Pac. J. Math. 202, No. 2, 363-369 (2002).

The authors obtain two types of norm inequalities which are extensions of the classical Clarkson inequalities for the Schatten p -norms in [*C. A. McCarthy*, Isr. J. Math. 5, 249–271 (1967; Zbl 0156.37902)]. The authors show these inequalities by using operator convex and concave functions. Moreover, they obtain new norm inequalities as corollaries of their main results.

Reviewer: [Takeaki Yamazaki \(Yokohama\)](#)

MSC:

[47A30](#) Norms (inequalities, more than one norm, etc.) of linear operators

[46B20](#) Geometry and structure of normed linear spaces

Cited in **2** Reviews
Cited in **14** Documents

Keywords:

Clarkson inequalities; Schatten p -norm; unitarily invariant norm; convex function; Ky Fan norm

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