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Clarkson-McCarthy Interpolated Inequalities in Finsler Norms

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Abstract: We apply the complex interpolation method to prove that, given two spaces

 $B_{p_0,a,s_0}^{(n)},\ B_{p_1,b,s_1}^{(n)}$ of n-tuples of operators in the p-Schatten class of a

Hilbert space H, endowed with weighted norms associated to positive and invertible operators a and b of B(H) then, the curve of interpolation

 $(B_{p_0,a;s_0}^{(n)},B_{p_1,b;s_1}^{(n)})_{[t]}$ of the pair is given by the space of n-tuples of

operators in the $\,p_t ext{-Schatten}$ class of $\,H ext{,}$ with the weighted norm associated

to the positive invertible element $\ \gamma_{a,b}(t)=a^{1/2}(a^{-1/2}ba^{-1/2})^ta^{1/2}$.

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