The least $r$-concave majorant of the continuity modulus $\omega_r$

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Abstract.

We define the least $r$-concave majorant for the modulus of continuity of order $r$ on $C[a,b]$, denoted by $\widetilde{\omega}_r^r$, and we establish the inequality

$$\widetilde{\omega}_r^r(f,2t) \leq 2^r K^1_r(f,t; C[a,b], C^r[a,b]), 0 < t \leq \frac{b-a}{2r}.$$ 

References

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