Jincai Wang An inequality in Orlicz function spaces with Orlicz norm

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Abstract: We use Simonenko quantitative indices of an \mathcal{N} -function Φ to estimate two parameters q_{Φ} and Q_{Φ} in Orlicz function spaces $L^{\Phi}[0,\infty)$ with Orlicz norm, and get the following inequality: $\frac{B_{\Phi}}{B_{\Phi}-1} \leq q_{\Phi} \leq Q_{\Phi} \leq \frac{A_{\Phi}}{A_{\phi}-1}$, where A_{Φ} and B_{Φ} are Simonenko indices. A similar inequality is obtained in $L^{\Phi}[0,1]$ with Orlicz norm.

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