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A note on Hardy-Orlicz spaces. (Chinese. English summary) Zbl 0860.46017

Summary: W. Deeb, R. Khalil and M. Marzuq [Bull. Aust. Math. Soc. 34, 177-189 (1986; Zbl 0589.46019)] have studied some properties of $H(\Phi)$, the Hardy-Orlicz spaces. They introduced the function classes $N_P(0 < P \leq 1)$ and discussed some properties of $N_P$. In the present short note, we prove that $N_P = N^+$ for $0 < P \leq 1$. We also give a condition for $H(\Phi) = H(\psi)$.

MSC:

46E30 Spaces of measurable functions ($L^p$-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)

46J15 Banach algebras of differentiable or analytic functions, $H^p$-spaces

Keywords:

Hardy-Orlicz spaces