

ON THE EXTRAPOLATION ESTIMATES

AMIRAN GOGATISHVILI AND TAKUYA SOBUKAWA

Abstract. We present elementary proofs of precise Yano's type extrapolation estimates on infinite measure space recently proved by M. J. Carro.

Mathematics subject classification (2000): 46B99, 46B70, 46E30.

Key words and phrases: extrapolation theorem, Orlicz class.

REFERENCES

- [1] C. BENNETT AND R. SHARPLEY, *Interpolation of operators*, Pure and Applied Mathematics Vol. 129, Academic Press, Boston, 1988.
- [2] M. J. CARRO, *New extrapolation estimates*, J. Func. Anal., **174** (2000), 155–166.
- [3] T. SOBUKAWA, *Extrapolation theorem on some quasi-banach spaces*, Tokyo J. Math., **18** (1995), 417–423.
- [4] T. SOBUKAWA, *Extrapolation theorem on quasi-normed ℓ^p spaces*, Math. Japonica, **43** (1996), 241–252.
- [5] S. YANO, *An extrapolation theorem*, J. Math. Soc. Japan, **3** (1951), 296–305.