



## Potential theory/Harmonic analysis

Corrigendum to “A limiting weak type estimate for capacitary maximal function” [C. R. Acad. Sci. Paris, Ser. I 352 (1) (2014) 7–11] <sup>☆</sup>Jie Xiao <sup>a</sup>, Ning Zhang <sup>b</sup><sup>a</sup> Department of Mathematics and Statistics, Memorial University, St. John's, NL A1C 5S7, Canada<sup>b</sup> Department of Mathematical and Statistical Sciences, University of Alberta, Edmondon, AB T6G 2G1, Canada

## ARTICLE INFO

## Article history:

Received 10 November 2014

Accepted 25 November 2014

Available online 30 December 2014

In [1], page 11, line 9: “Consequently,  $\{h(y_i)\}$  is a Cauchy sequence,  $D = \lim_{i \rightarrow \infty} h(y_i)$  exists.” cannot be ensured by the estimates from page 11, lines 1–10. However, a careful examination of “**3. Proof of theorem**” over there reveals that [1, Theorem 1.1] should be replaced by:

**Theorem 1.1.** *Under the above-mentioned two assumptions, one has:*

$$\liminf_{\lambda \rightarrow 0} \lambda C(\{x \in \mathbb{R}^n : M_C f(x) > \lambda\}) \approx \|f\|_1 \approx \limsup_{\lambda \rightarrow 0} \lambda C(\{x \in \mathbb{R}^n : M_C f(x) > \lambda\}) \quad \forall f \in L^1(\mathbb{R}^n).$$

In particular, if  $\phi = \psi$  then

$$\lim_{\lambda \rightarrow 0} \lambda C(\{x \in \mathbb{R}^n : M_C f(x) > \lambda\}) = \|f\|_1 \quad \forall f \in L^1(\mathbb{R}^n).$$

Here and henceforth,  $X \approx Y$  means that there is a constant  $c > 0$  independent of  $X$  and  $Y$  such that  $c^{-1}Y \leq X \leq cY$ .

## References

- [1] J. Xiao, N. Zhang, A limiting weak type estimate for capacitary maximal function, *C. R. Acad. Sci. Paris, Ser. I* 352 (2014) 7–11.

DOI of original article: <http://dx.doi.org/10.1016/j.crma.2013.11.008>.

☆ Project supported by NSERC of Canada (FOAPAL: 202979463102000) as well as by URP of Memorial University, Canada (FOAPAL: 208227463102000).

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