ERRATA FOR " L^2 -BOUNDEDNESS OF THE CAUCHY TRANSFORM ON SMOOTH NON-LIPSCHITZ CURVES", NAGOYA MATH J. 130 (1993), 123–147

HYEONBAE KANG AND JINKEUN SEO

Lemma 2.1 in the paper should be replaced by

LEMMA 2.1. Suppose that there exists a positive number m such that f is bounded on [-m, m] and f is differentiable if $|x| \ge m$. Suppose also that f(x) - f(-x) is bounded. If $|f'(x)| = O(|x|^{-1})$ as $x \to \infty$, then $f \in BMO$.

Note that an extra condition of symmetry of f, namely, the boundedness of f(x) - f(-x) is added to the hypothesis of the Lemma. Lemma 2.1 was used in three places in the paper to prove that the functions F, G_* , and f given in pages 140, 141, and 144, respectively, belong to BMO. It can be checked by a standard argument that these functions satisfy the symmetry condition.

One final note: The result in the paper was generalized to arbitrary polynomials by completely different methods in our forth-coming paper "Cauchy transforms on polynomial curves and related operators."

H. Kang Department of Mathematics Soong Sil University Sangdo-Dong, Dongjak-Gu Seoul, 156-743 Korea

Current address Department of Mathematics Korea University Seoul, 136-701, Korea J. K. Seo Department of Mathematics POSTECH Pohang Korea

Current address Department of Mathematics Yonsei University Seoul, 120-749, Korea

Received March 28, 1994.