Chang-Pao Chen* (cpchen@math.nthu.edu.tw), Department of Mathematics, National Tsing Hua University, Hsinchu, 30092, Taiwan, and Dah-Chin Luo Luo. Hölder-type estimates of the modular operator norm of an integral operator over spherical cones.

In this paper, we introduce a new type of estimates to evaluate the modular operator norm of an integral operator over Lebesgue measurable subsets of $\mathbb{R}^n$. We get this estimate by means of the Hölder inequality. Our results not only extend the corresponding ones in Maz’ja’s book, also provide better results than the Muckenhoupt-type estimate shown in Linear Multilinear Algebra. 62(5), 683–713 (2014) for some cases. (Received July 17, 2018)