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**Shoo Seto\*** ([shoos@uci.edu](mailto:shoos@uci.edu)), 419 Rowland Hall, Irvine, CA 92697. *First eigenvalue estimates of  $p$ -Laplace type operators on Kahler manifolds.* Preliminary report.

We give a lower bound estimate for the first eigenvalue of the  $p$ -Laplacian on Kahler manifolds. We then generalize the  $p$ -Laplace operator to act on differential forms and give a generalization of a lower bound estimate by Gallot-Meyers. (Received September 17, 2019)