

### 3.論文リスト

1. [Xiaojing Liu](#), Toshio Horiuchi.

Remarks on Kato's inequality when  $\Delta p u$  is a measure.

Mathematical Journal of Ibaraki University Volume 48, p45-61, September 2016.

2. [Xiaojing Liu](#), Toshio Horiuchi.

Remarks on the strong maximum principle involving  $p$ -Laplacian.

Hiroshima Mathematical Journal Volume 46, No.3 , p311-331 November 2016.

3. [Xiaojing Liu](#), Toshio Horiuchi.

The equivalences among  $p$ -capacity,  $p$ -Laplace-capacities and Hausdorff measure.

Mathematical Journal of Ibaraki University Volume 50, p5-13, 2018.

4. Toshio Horiuchi, [Xiaojing Liu](#).

Kato's inequality when  $\Delta p u$  is a measure and related topics.

偏微分方程式の解の形状解析 (Analysis on Shapes of Solutions to Partial Differential Equations) RIMS 共同研究報告集 p128-p139, 2016.

5. [Xiaojing Liu](#), Toshio Horiuchi.

Kato's inequalities for admissible functions to quasilinear elliptic operators A.

Mathematical Journal of Ibaraki University Volume 51, p49-64, 2018.

6. Hiroshi Ando, Toshio Horiuchi and [Xiaojing Liu](#).

One dimensional weighted Hardy's inequalities and application.

arXiv:1909.10689 [math.AP].

7. [Xiaojing Liu](#), Toshio Horiuchi, Hiroshi Ando.

One dimensional Weighted Hardy's Inequalities and application.

Journal of Mathematical Inequalities(4) p1203-1222, 2020年12月.

$p$ -Laplace operator and their application.