

1056-42-709

Mukta B Bhandari* (mukta@math.ksu.edu), 1544 International Court, Apt. # 23, Manhattan, KS 66502. *Good Lambda Inequality and Riesz potentials for Non Doubling Measures in \mathbb{R}^n* . Preliminary report.

We obtain Good Lambda Inequality for non doubling measures in \mathbb{R}^n associated to Riesz Potentials. We also extend this to weight w associated to non doubling measure. We apply this to obtain Potential inequalities. Key words: maximal functions, fractional maximal functions, growth condition, Riesz potentials. (Received September 16, 2009)