WEIGHTED $L_p$–NORM INEQUALITIES IN CONVOLUTIONS AND THEIR APPLICATIONS

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Abstract. In this paper, we give some new type of convolution inequalities in weighted $L_p(R^2, dxdy)$ spaces and their important applications to partial differential equations and integral transforms. Especially, we will see their applications to non-homogeneous linear differential equations.

Keywords and phrases: Convolution, inequality, weighted $L_p$ norm, Green function, integral transform, partial differential equations.

REFERENCES