METAPLECTIC REPRESENTATION ON WIENER AMALGAM SPACES AND APPLICATIONS TO THE SCHRÖDINGER EQUATION

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Abstract. We study the action of metaplectic operators on Wiener amalgam spaces, giving upper bounds for their norms. As an application, we obtain new fixed-time estimates in these spaces for Schrödinger equations with general quadratic Hamiltonians and Strichartz estimates for the Schrödinger equation with potentials \( V(x) = \pm |x|^2 \).

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