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On L^p-Estimates for the Time Dependent Schrödinger Operator on L^2

Authors:	**Mohammed Hichem Mortad**,

Abstract:

Let L denote the time-dependent Schrödinger operator in n space variables. We consider a variety of Lebesgue norms for functions u on $\mathbb{R}^{n+1}$, and prove or disprove estimates for such norms of u in terms of the L^2 norms of u and Lu. The results have implications for self-adjointness of operators of the form $L + V$ where V is a multiplication operator. The proofs are based mainly on Strichartz-type inequalities.

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