

SMOOTHING PROPERTIES OF DEGENERATE SCHRÖDINGER OPERATORS

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In this talk we will show smoothing type estimates for some degenerate Schrödinger operators with time singularities. These estimates are the key point to prove local well-posedness results both for the linear and the nonlinear Cauchy problem associated to the operator under consideration. The smoothing properties we will give will be derived in suitable weighted spaces taking into account the time degeneracy.