

## Best regularity for a Schrodinger type equation with non smooth data and interpolation spaces

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### SUMMARY

Given a vector field  $U(x)$  and a nonnegative potential  $V(x)$  on a smooth open bounded set  $\Omega$ , we shall discuss some regularity results for the following equation

$$-\Delta\omega + U \cdot \nabla\omega + V\omega = f \text{ in } \Omega$$

whenever  $\delta f$  is a bounded Radon measure with  $\delta(x)$  is the distance between  $x$  and the boundary  $\partial\Omega$

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