1019-35-96 M. B. Erdogan* (berdogan@math.uiuc.edu). Strichartz estimates for Schrödinger operators with large magnetic potentials in \mathbb{R}^3 .

We discuss the time evolution of the operator

$$H = -\Delta + i(A \cdot \nabla + \nabla \cdot A) + V$$

in \mathbb{R}^3 . In a joint work with M. Goldberg and W. Schlag, we prove that H satisfies global Strichartz and smoothing estimates under suitable smoothness and decay assumptions on A and V but without any smallness assumptions. We require that zero energy is neither an eigenvalue nor a resonance. (Received August 08, 2006)