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Discrete Schrodinger Operators with Slowly Oscilating Potentials

We investigate asyptotic behavior of the generalized eigenfunctions of discrete Schrodinger operator with potentials $\partial b(n) \in l^p(Z)$, $1 < p < 2$. Our approach is based on the work of Christ and Kiselev in the continuous case. The main new step is a development of discrete version of multilinear operator analysis and maximal function estimate.

Joint work with A. Kiselev.