Microlocal scattering theory for discrete Schrödinger operators and related topics

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Abstract: We consider scattering theory for a class of operators which includes Schrödinger operators on $\mathbb{R}^d$ and discrete Schrödinger operators on $\mathbb{Z}^d$. We discuss microlocal properties of scattering matrices, the microlocal resolvent estimates and long-range scattering theory for them.