## Abstract

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## "Long-range scattering matrix for Schrödinger-type operators"

For Schrödinger operator-type pseudodifferential operators with longrange perturbations, it is shown that the modified scattering matrix is a Fourier integral operator, and it is a natural quantization of the scattering map for the corresponding modified classical scattering. The spectral properties of scattering matrices for several models are discussed, and it is shown that the scattering matrix can have absolutely continuous spectrum.