

Transformation operators for Schrödinger operators on infinite-gap backgrounds

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Transformation operators which preserve the asymptotic behavior at infinity are the main tool for considering different kinds of direct and inverse scattering problems. We present an investigation of the transformation operators for one-dimensional Schrödinger operators with potentials, which are asymptotically close to almost periodic infinite-gap potentials. At the end we will give an outlook on scattering theory in that case.