RECONSTRUCTION OF THE TRANSMISSION COEFFICIENT
FOR STEPLIKE FINITE–GAP BACKGROUND

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Abstract. We consider scattering theory for one-dimensional Jacobi operators with respect to steplike quasi-periodic finite-gap backgrounds and show how the transmission coefficient can be reconstructed from minimal scattering data. This generalizes the Poisson–Jensen formula for the classical constant background case.


Keywords and phrases: Jacobi operators, scattering theory, periodic, Abelian integrals.

REFERENCES


