

# Inverse eigenvalue problem for Jacobi matrices

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There will be discussed conditions /necessary and sufficient/ for the existence of a solution to the Hochstadt inverse eigenvalue problem (HIEP), i.e., the problem of recovering  $n$  unknown parameters of a Jacobi matrix from all  $n$  of its eigenvalues and  $n - 1$  known parameters. Effective algorithms for solving the HIEP are also proposed.