

## A FINITE INVERSE PROBLEM BY THE DETERMINANT METHOD

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*Abstract.* We are concerned with the problem of identifying an operator that depends on  $n$  parameters. To this end we use the Poincare determinant to form a characteristic function which relates the  $n$  free parameters to  $n$  given eigenvalues. Using the implicit function theorem we find a condition that guarantees the local solvability of the inverse eigenvalue problem.

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