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## THE RELATION BETWEEN ONE AND MULTIDIMENSIONAL PROBLEMS

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### Abstract

The study of certain non-generic isospectral potentials on a discrete lattice with periodic boundary conditions arises from physical consideration of behaviour of conduction electrons in a crystal. This problem is studied by T. Kappeler in 1989 and proved some results. In this research paper I proved, improved and corrected results.

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Key Words : *Laplacian, Symmetric group, Permutation, Spectrum.*

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