

Discrete Reflectionless Potentials, Quantum Algebras, and q -Orthogonal Polynomials

VYACHESLAV SPIRIDONOV*

*Centre de Recherches Mathématiques, Université de Montréal,
C.P. 6128-A, Montréal, Québec, H3C 3J7, Canada*

AND

ALEXEI ZHEDANOV

Physics Department, Donetsk University, Donetsk, 840055, Ukraine

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Using Darboux transformations for the lattice Schrödinger equation, we construct two families of discrete reflectionless potentials with j and $2j$ bound states (solitons). These potentials are related to the exceptional Askey–Wilson polynomials. In the continuous limit they are reduced to the well-known solvable potential $v(x) = -j(j+1)/\cosh^2 x$. The limit $j \rightarrow \infty$ for the lattice systems may be defined in two different ways. In the first case, discrete spectrum grows exponentially fast, and the continuous spectrum band, $-2 \leq k \leq 2$, is preserved. In the second case, the limiting potentials are related to the q^{-1} -Hermite polynomials. Their spectra are purely discrete and consist of one or two geometric series accumulating near the zero. These series are generated by the q -Weyl algebra and its “square root” version. In contrast to the continuous reflectionless potentials with quantum algebraic symmetries, the derived discrete potentials are expressed in terms of the elementary functions. © 1995 Academic Press, Inc.

1. INTRODUCTION

Reflectionless potentials for the ordinary Schrödinger equation were considered by Bargmann a long time ago [1]. An intensive study of them began much later due to the connection with soliton solutions of the Korteweg–de Vries hierarchy of equations [2, 3]. The scattering theory for discrete Schrödinger equations has been investigated as well, but the number of works devoted to discrete reflectionless potentials is much less than for the continuous counterparts. Partially this is caused by the similarity of procedures used for the construction of reflectionless potentials with a finite number of bound states in two cases. Indeed, such potentials can be constructed exhaustively with the help of an inverse scattering method which

* On leave from the Institute for Nuclear Research, Russian Academy of Sciences, Moscow, Russia.
E-mail: spiridonov@lps.umontreal.ca.

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