### London Mathematical Society Lecture Note Series 381

# Symmetries and Integrability of Difference Equations

Edited by Decio Levi, Peter Olver, Zora Thomova and Pavel Winternitz



## **Symmetries And Integrability Of Difference Equations**

**LL Leslie** 

#### **Symmetries And Integrability Of Difference Equations:**

Symmetries and Integrability of Difference Equations Peter A. Clarkson, Frank W. Nijhoff, 1999-02-04 This volume comprises state of the art articles in discrete integrable systems **Symmetries and Integrability of Difference Equations** Decio Levi, Raphaël Rebelo, Pavel Winternitz, 2017-06-30 This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference equations Difference equations are playing an increasingly important role in the natural sciences Indeed many phenomena are inherently discrete and thus naturally described by difference equations More fundamentally in subatomic physics space time may actually be discrete Differential equations would then just be approximations of more basic discrete ones Moreover when using differential equations to analyze continuous processes it is often necessary to resort to numerical methods This always involves a discretization of the differential equations involved thus replacing them by difference ones Each of the nine peer reviewed chapters in this volume serves as a self contained treatment of a topic containing introductory material as well as the latest research results and exercises Each chapter is presented by one or more early career researchers in the specific field of their expertise and in turn written for early career researchers As a survey of the current state of the art this book will serve as a valuable reference and is particularly well suited as an introduction to the field of symmetries and integrability of difference equations Therefore the book will be welcomed by advanced undergraduate and graduate students as well as by more advanced researchers SIDE III Decio Levi, Orlando Ragnisco, 2000-06-15 This volume contains the proceedings of the third meeting on Symmetries and Integrability of Difference Equations SIDE III The collection includes original results not published elsewhere and articles that give a rigorous but concise overview of their subject and provides a complete description of the state of the art Research in the field of difference equations often referred to more generally as discrete systems has undergone impressive development in recent years In this collection the reader finds the most important new developments in a number of areas including Lie type symmetries of differential difference and difference difference equations integrability of fully discrete systems such as cellular automata the connection between integrability and discrete geometry the isomonodromy approach to discrete spectral problems and related discrete Painleve equations difference and q difference equations and orthogonal polynomials difference equations and quantum groups and integrability and chaos in discrete time dynamical systems. The proceedings will be valuable to mathematicians and theoretical physicists interested in the mathematical aspects and or in the physical applications of discrete nonlinear dynamics with special emphasis on the systems that can be integrated by analytic methods or at least admit special explicit solutions. The research in this volume will also be of interest to engineers working in discrete dynamics as well as to theoretical biologists and economists

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