

1. Record Nr.	UNISA996466421103316
Titolo	Energy Informatics [[electronic resource]] : 4th D-A-CH Conference, EI 2015, Karlsruhe, Germany, November 12-13, 2015, Proceedings // edited by Sebastian Gottwalt, Lukas König, Hartmut Schmeck
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-25876-1
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (XII, 223 p. 92 illus.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI ; ; 9424
Disciplina	333.79
Soggetti	Management information systems Computer science Computer communication systems Renewable energy resources Algorithms Application software Energy policy Energy and state Management of Computing and Information Systems Computer Communication Networks Renewable and Green Energy Algorithm Analysis and Problem Complexity Information Systems Applications (incl. Internet) Energy Policy, Economics and Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	This book constitutes the refereed proceedings of the 4th D-A-CH Conference on Energy Informatics, D-A-CH EI 2015, held in Karlsruhe, Germany, in November 2015. The 18 revised full papers presented were carefully reviewed and selected from 36 submissions. The papers are organized in topical sections on distributed energy sources and

storage, smart meters and monitoring, research lab infrastructures, electric mobility, communication and security, and modeling and simulation.

2. Record Nr.	UNINA9910483366103321
Autore	Haran M. J. Shai
Titolo	Arithmetical investigations : representation theory, orthogonal polynomials, and quantum interpolations // Shai M.J. Haran
Pubbl/distr/stampa	Berlin, : Springer, c2008
ISBN	9783540783794 3540783792
Edizione	[1st ed. 2008.]
Descrizione fisica	xii, 217 p. : ill
Collana	Lecture notes in mathematics, , 0075-8434 ; ; 1941
Disciplina	511.42
Soggetti	p-adic numbers Number theory Interpolation Representations of quantum groups
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. [209]-213) and index.
Nota di contenuto	Introduction: Motivations from Geometry -- Gamma and Beta Measures -- Markov Chains -- Real Beta Chain and q-Interpolation -- Ladder Structure -- q-Interpolation of Local Tate Thesis -- Pure Basis and Semi-Group -- Higher Dimensional Theory -- Real Grassmann Manifold -- p-Adic Grassmann Manifold -- q-Grassmann Manifold -- Quantum Group $U_q(\mathfrak{su}(1, 1))$ and the q-Hahn Basis.
Sommario/riassunto	In this volume the author further develops his philosophy of quantum interpolation between the real numbers and the p-adic numbers. The p-adic numbers contain the p-adic integers \mathbb{Z}_p which are the inverse limit of the finite rings \mathbb{Z}/p^n . This gives rise to a tree, and probability measures w on \mathbb{Z}_p correspond to Markov chains on this tree. From the tree structure one obtains special basis for the Hilbert space $L^2(\mathbb{Z}_p, w)$. The real analogue of the p-adic integers is the interval $[-1, 1]$, and a probability measure w on it gives rise to a special basis for $L^2([-1, 1], w)$

- the orthogonal polynomials, and to a Markov chain on "finite approximations" of $[-1,1]$. For special (gamma and beta) measures there is a "quantum" or "q-analogue" Markov chain, and a special basis, that within certain limits yield the real and the p-adic theories. This idea can be generalized variously. In representation theory, it is the quantum general linear group $GL_n(q)$ that interpolates between the p-adic group $GL_n(\mathbb{Z}_p)$, and between its real (and complex) analogue -the orthogonal O_n (and unitary U_n) groups. There is a similar quantum interpolation between the real and p-adic Fourier transform and between the real and p-adic (local unramified part of) Tate thesis, and Weil explicit sums.
