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	Disciplina	516.35
	Soggetti	Harmonic analysis
		Topological groups
		Lie groups
		Number theory
		Algebraic geometry
		Differential geometry
		Partial differential equations
		Abstract Harmonic Analysis
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	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	1 Jean Ludwig: Walking with a mathematician -- 2 On q-Gamma and q-Bessel functions -- 3 On the dual topology of the group U(n) x Hn -- 4 Color Lie algebras: Big bracket, Cohomology and Deformations -- 5 A stability theorem for non-abelian actions on threadlike homogeneous spaces -- 6 Quasi-regular representations of two-step nilmanifolds -- 7 Matrix valued commuting differential operators with A2 symmetry -- 8 Translation of harmonic spinors and interacting Weyl fermions on homogeneous spaces. 9 Dimension formula for slice for visible actions

on spherical nilpotent orbits in complex simple Lie algebras.

| Sommario/riassunto | This book provides the latest competing research results on non-commutative harmonic analysis on homogeneous spaces with many applications. It also includes the most recent developments on other areas of mathematics including algebra and geometry. Lie group representation theory and harmonic analysis on Lie groups and on their homogeneous spaces form a significant and important area of mathematical research. These areas are interrelated with various other mathematical fields such as number theory, algebraic geometry, differential geometry, operator algebra, partial differential equations and mathematical physics. Keeping up with the fast development of this exciting area of research, Ali Baklouti (University of Sfax) and Takaaki Nomura (Kyushu University) launched a series of seminars on the topic, the first of which took place on November 2009 in Kerkennah Islands, the second in Sousse on December 2011, and the third in Hammamet& nbsp;on December 2013. The last seminar, which took place on December 18th to 23rd 2015 in Monastir, Tunisia, has promoted further research in all the fields where the main focus was in the area of Analysis, algebra and geometry and on topics of joint collaboration of many teams in several corners. Many experts from both countries have been involved. |