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Nota di contenuto	Part I: Invited Talks -- 1. Group theory and the capitulation problem for some number fields -- 2. On Space-Time Codes Arising from Free modules and Algebras over an Integral Domain -- 3. Graded modules over superconformal algebras -- 4. On Deformations of n-Lie algebras -- 5. Morita equivalence and Morita invariant properties. Applications in the context of Leavitt path algebras -- 6. On commuting U-operators in Jordan algebras -- Part II Contributed Talks -- 7. Gradings on algebras over algebraically closed fields -- 8. On the set of Artinian subrings of infinite products of rings -- 9. Noncommutative Gröbner basis over a Divisible and Annihilable Ring -- 10. Some properties of mono-correct and epi-correct modules -- 11. Strongly split Poisson algebras -- 12. Generalization of the Hopf Commutative Theorem -- 13. On The Polya Group of Some Imaginary Biquadratic Fields -- 14.

Localization in A Duo-Ring and Polynomials Algebra -- 15. Connections techniques in graded Morita rings theory -- 16. Basic and free simplicity of Lorentz type algebras -- 17. On the real forms of the exceptional Lie algebra  $e_6$  and their Satake diagrams -- 18. Linear recurring sequences over zero-sum semirings -- 19. Invertible Lax Entwining Structures and C-Cleft Extensions.

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Sommario/riassunto

Presenting the collaborations of over thirty international experts in the latest developments in pure and applied mathematics, this volume serves as an anthology of research with a common basis in algebra, functional analysis and their applications. Special attention is devoted to non-commutative algebras, non-associative algebras, operator theory and ring and module theory. These themes are relevant in research and development in coding theory, cryptography and quantum mechanics. The topics in this volume were presented at the Workshop on Non-Associative & Non-Commutative Algebra and Operator Theory, held May 23—25, 2014 at Cheikh Anta Diop University in Dakar, Senegal in honor of Professor Amin Kaidi. The workshop was hosted by the university's Laboratory of Algebra, Cryptology, Algebraic Geometry and Applications, in cooperation with the University of Almería and the University of Málaga. Dr. Kaidi's work focuses on non-associative rings and algebras, operator theory and functional analysis, and he has served as a mentor to a generation of mathematicians in Senegal and around the world. .

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