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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Introduction to tropical algebraic geometry -- 1. Introduction -- 2. Tropical varieties -- 3. Drawing curves in the plane -- 4. The Fundamental and Structure theorems -- 5. The computational approach to tropical varieties -- 6. Connections to subvarieties of toric varieties -- References -- Tropical curves and integrable piecewise linear maps -- 1. Introduction -- Acknowledgments -- 2. Tropical curve theory -- 3. Tropical periodic Toda lattice -- 4. Periodic BBS -- References -- Counting algebraic curves with tropical geometry -- 1. Enumerative Algebraic Geometry -- 2. Tropical Geometry -- 3. Counting Algebraic Curves tropically -- 4. Applications -- References -- Hurwitz numbers, ribbon graphs, and tropicalization -- 1. Introduction -- 2. The classical viewpoints: covers and permutations -- 3. Double Hurwitz numbers and labeled ribbon graphs -- 4. From ribbon graphs to permutations -- 5. The tropical definition -- References -- Sperner property, matroids and finite-dimensional Gorenstein algebras -- Introduction -- 1. Posets and the Sperner property -- 2. Matroids -- 3. Tropicalization in cluster algebras -- 4. Application I: Periodicities of Y-systems -- 5. Application II: Dilogarithm identities -- References -- An application of the max-plus spectral theory to an ultradiscrete analogue of the Lax pair -- 1. Introduction -- 2. Simplified Lax pair -- 3. Adding

constraints -- 4. Conclusions and projects -- 5. Acknowledgement --
References -- A KdV cellular automaton without integers -- 1.
Introduction -- 2. A brief recall of the continuous and the discrete
situation -- 3. A linear problem for the ultradiscrete KdV equation --
4. Bound states for the ultradiscrete KdV equation -- 5. Tau functions
and the dressing procedure -- 6. The case of degenerate spectrum --
7. Concluding remarks -- References.
