

1. Record Nr.	UNINA9910788866303321
Autore	Casals-Ruiz Montserrat
Titolo	On systems of equations over free partially commutative groups // Montserrat Casals-Ruiz, Ilya Kazachkov
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2010 ©2010
ISBN	1-4704-0616-0
Descrizione fisica	1 online resource (153 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; Volume 212, Number 999
Disciplina	512.25
Soggetti	Equations, Abelian Abelian groups
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 212, Number 999 (end of volume)."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Contents""; ""List of Figures""; ""Chapter 1. Introduction""; ""Chapter 2. Preliminaries""; ""2.1. Graphs and relations""; ""2.2. Elements of algebraic geometry over groups""; ""2.3. Formulas in the languages LA and LG""; ""2.4. First order logic and algebraic geometry""; ""2.5. Partially commutative groups""; ""2.6. Partially commutative monoids and DM-normal forms""; ""Chapter 3. Reducing systems of equations over G to constrained generalised equations over F""; ""3.1. Definition of (constrained) generalised equations"" ""3.2. Reduction to generalised equations: from partially commutative groups to monoids""""3.3. Reduction to generalised equations: from partially commutative monoids to free monoids""; ""3.4. Example""; ""Chapter 4. The process: construction of the tree T""; ""4.1. Preliminary definitions""; ""4.2. Elementary transformations""; ""4.3. Derived transformations""; ""4.4. Construction of the tree T()""; ""Chapter 5. Minimal solutions""; ""Chapter 6. Periodic structures""; ""6.1. Periodic structures""; ""6.2. Example""; ""6.3. Strongly singular and singular cases""; ""6.4. Example"" ""6.5. Regular case""""Chapter 7. The finite tree T0() and minimal solutions""; ""7.1. Automorphisms""; ""7.2. The finite subtree T0()""; ""7.3. Paths p(H) are in T0()""; ""Chapter 8. From the coordinate group GR(*) to proper quotients: the decomposition tree Tdec and the

extension tree $\text{Text}()$; "8.1. The decomposition tree $\text{Tdec}()$ "; "8.2. Example"; "8.3. The extension tree $\text{Text}()$ "; "Chapter 9. The solution tree $T_{39\ 42}^{613A\ 45\ 47\ 603A\text{sol}()}$ and the main theorem"; "9.1. Example"; "Bibliography"; "Index"; "Glossary of notation"
