

1. Record Nr.	UNINA9910481011703321
Autore	Montgomery R (Richard), <1956->
Titolo	Points and curves in the Monster tower // Richard Montgomery, Michail Zhitomirskii
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2009 ©2009
ISBN	1-4704-0570-9
Descrizione fisica	1 online resource (137 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; Volume 203, Number 956
Disciplina	516.3/6
Soggetti	Jet bundles (Mathematics) Blowing up (Algebraic geometry) Pfaffian systems Singularities (Mathematics) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 203, Number 956 (end of volume)."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Contents""; ""Abstract""; ""Preface""; ""Chapter 1. Introduction""; ""1.1. The Monster construction""; ""1.2. Coordinates and the contact case""; ""1.3. Symmetries. Equivalence of points of the Monster""; ""1.4. Prolonging symmetries""; ""1.5. The basic theorem""; ""1.6. The Monster and Goursat distributions""; ""1.7. Our approach""; ""1.8. Proof of the basic theorem""; ""1.9. Plan of the paper""; ""Acknowledgements""; ""Chapter 2. Prolongations of integral curves. Regular, vertical, and critical curves and points""; ""2.1. From Monster curves to Legendrian curves"" ""2.2. Prolonging curves""""2.3. Projections and prolongations of local symmetries""; ""2.4. Proof of Theorem 2.2""; ""2.5. From curves to points""; ""2.6. Non-singular points""; ""2.7. Critical curves""; ""2.8. Critical and regular directions and points""; ""2.9. Regular integral curves""; ""2.10. Regularization theorem""; ""2.11. An equivalent definition of a non-singular point""; ""2.12. Vertical and tangency directions and points""; ""Chapter 3. RVT classes. RVT codes of plane curves. RVT and Puiseux""; ""3.1. Definition of RVT classes""

""3.2. Two more definitions of a non-singular point""""3.3. Types of
 RVT classes. Regular and entirely critical prolongations""; ""3.4.
 Classification problem: reduction to regular RVT classes""; ""3.5. RVT
 classes as subsets of PkR^2 ""; ""3.6. Why tangency points?""; ""3.7. RVT
 code of plane curves""; ""3.8. RVT code and Puiseux characteristic"";
 ""Chapter 4. Monsterization and Legendrization. Reduction theorems"";
 ""4.1. Definitions and basic properties""; ""4.2. Explicit calculation of
 the legendrization of RVT classes""; ""4.3. From points to Legendrian
 curves""
 ""4.4. Simplest classification results""""4.5. On the implications and
 shortfalls of Theorems 4.14 and 4.15""; ""4.6. From points to
 Legendrian curve jets. The jet-identification number""; ""4.7. The
 parameterization number""; ""4.8. Evaluating the jet-identification
 number""; ""4.9. Proof of Proposition 4.44""; ""4.10. From Theorem B to
 Theorem 4.40""; ""4.11. Proof that critical points do not have a jet-
 identification number""; ""4.12. Proof of Proposition 4.26""; ""4.13.
 Conclusions. Things to come""; ""Chapter 5. Reduction algorithm.
 Examples of classification results""
 ""5.1. Algorithm for calculating the Legendrization and the
 parameterization number""""5.2. Reduction algorithm for the
 equivalence problem""; ""5.3. Reduction algorithm for the classification
 problem""; ""5.4. Classes of small codimension consisting of a finite
 number of orbits""; ""5.5. Classification of tower-simple points""; ""5.6.
 Classes of high codimension consisting of one or two orbits""; ""5.7.
 Further examples of classification results; Moduli""; ""Chapter 6.
 Determination of simple points""; ""6.1. Tower-simple and stage-
 simple points""; ""6.2. Determination theorems""
 ""6.3. Explicit description of stage-simple RVT classes""
