

1. Record Nr.	UNINA9910796030803321
Autore	Gille Philippe <1968->
Titolo	Torsors, reductive group schemes and extended affine lie algebras / / Philippe Gille, Arturo Pianzola
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2013 ©2013
ISBN	1-4704-1063-X
Descrizione fisica	1 online resource (124 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; Volume 226, Number 1063
Disciplina	512/.482
Soggetti	Kac-Moody algebras Linear algebraic groups Geometry, Algebraic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 226, Number 1063 (fourth of 5 numbers)."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Contents""; ""Chapter 1. Introduction""; ""Chapter 2. Generalities on the algebraic fundamental group, torsors, and reductive group schemes""; ""2.1. The fundamental group""; ""2.2. Torsors""; ""2.3. An example: Laurent polynomials in characteristic 0""; ""2.4. Reductive group schemes: Irreducibility and isotropy""; ""Chapter 3. Loop, finite and toral torsors""; ""3.1. Loop torsors""; ""3.2. Loop reductive groups""; ""3.3. Loop torsors at a rational base point""; ""3.4. Finite torsors""; ""3.5. Toral torsors""; ""Chapter 4. Semilinear considerations""; ""4.1. Semilinear morphisms"" ""4.2. Semilinear morphisms""""4.3. Case of affine schemes""; ""4.4. Group functors""; ""4.5. Semilinear version of a theorem of Borel-Mostow""; ""4.6. Existence of maximal tori in loop groups""; ""4.7. Variations of a result of Sansuc""; ""Chapter 5. Maximal tori of group schemes over the punctured line""; ""5.1. Twin buildings""; ""5.2. Proof of Theorem 5.1""; ""Chapter 6. Internal characterization of loop torsors and applications""; ""6.1. Internal characterization of loop torsors""; ""6.2. Applications to (algebraic) Laurent series""; ""Chapter 7. Isotropy of loop torsors"" ""7.1. Fixed point statements""""7.2. Case of flag varieties""; ""7.3. Anisotropic loop torsors""; ""Chapter 8. Acyclicity""; ""8.1. The proof"";

""8.2. Application: Witt-Tits decomposition"; ""8.3. Classification of semisimple \mathbb{A}^{∞} -loop adjoint groups"; ""8.4. Action of $\mathcal{L}\{ \}_{\mathbb{A}^{\infty}}(a??)$ "; ""Chapter 9. Small dimensions"; ""9.1. The one-dimensional case"; ""9.2. The two-dimensional case"; ""Chapter 10. The case of orthogonal groups"; ""Chapter 11. Groups of type $a??$ "; ""Chapter 12. Case of groups of type $a??$, $a??$ and simply connected $a??$ in nullity 3""
""Chapter 13. The case of $\mathcal{L}\{ \}$ """"13.1. Loop Azumaya algebras"; ""13.2. The one-dimensional case"; ""13.3. The geometric case"; ""13.4. Loop algebras of inner type ""; ""Chapter 14. Invariants attached to EALAs and multiloop algebras"; ""Chapter 15. Appendix 1: Pseudo-parabolic subgroup schemes"; ""15.1. The case of $\mathcal{L}\{ ,a??\}$ "; ""15.2. The general case"; ""Chapter 16. Appendix 2: Global automorphisms of \mathbb{A}^{∞} -torsors over the projective line"";
""Bibliography""
