

1. Record Nr.	UNINA9910154746903321
Autore	Guillemin Victor
Titolo	Cosmology in (2 + 1) -Dimensions, Cyclic Models, and Deformations of $M_{2,1}$ . (AM-121), Volume 121 / / Victor Guillemin
Pubbl/distr/stampa	Princeton, NJ : , : Princeton University Press, , [2016] ©1989
ISBN	1-4008-8241-9
Descrizione fisica	1 online resource (236 pages) : illustrations
Collana	Annals of Mathematics Studies ; ; 352
Disciplina	523.1/072/4
Soggetti	Cosmology - Mathematical models Geometry, Differential Lorentz transformations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Frontmatter -- Contents -- Foreword -- Part I. A relativistic approach to Zoll phenomena -- Part II. The general theory of Zollfrei deformations -- Part III. Zollfrei deformations of $M_{2,1}$ -- Part IV. The generalized x-ray transform -- Part V. The Floquet theory -- Bibliography
Sommario/riassunto	The subject matter of this work is an area of Lorentzian geometry which has not been heretofore much investigated: Do there exist Lorentzian manifolds all of whose light-like geodesics are periodic? A surprising fact is that such manifolds exist in abundance in (2 + 1)-dimensions (though in higher dimensions they are quite rare). This book is concerned with the deformation theory of $M_{2,1}$ (which furnishes almost all the known examples of these objects). It also has a section describing conformal invariants of these objects, the most interesting being the determinant of a two dimensional "Floquet operator," invented by Paneitz and Segal.