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Titolo	Commensurabilities among Lattices in PU (1,n). (AM-132), Volume 132 / / G. Daniel Mostow, Pierre Deligne
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Descrizione fisica	1 online resource (196 pages) : illustrations
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Frontmatter -- CONTENTS -- ACKNOWLEDGMENTS -- §1. INTRODUCTION -- §2. PICARD GROUP AND COHOMOLOGY -- §3. COMPUTATIONS FOR Q AND Q+ -- §4. LAURICELLA'S HYPERGEOMETRIC FUNCTIONS -- §5. GELFAND'S DESCRIPTION OF HYPERGEOMETRIC FUNCTIONS -- §6. STRICT EXPONENTS -- §7. CHARACTERIZATION OF HYPERGEOMETRIC-LIKE LOCAL SYSTEMS -- §8. PRELIMINARIES ON MONODROMY GROUPS -- §9. BACKGROUND HEURISTICS -- §10. SOME COMMENSURABILITY THEOREMS -- §11. ANOTHER ISOGENY -- §12. COMMENSURABILITY AND DISCRETENESS -- §13. AN EXAMPLE -- §14. ORBIFOLD -- §15. ELLIPTIC AND EUCLIDEAN 'S, REVISITED -- §16. LIVNE'S CONSTRUCTION OF LATTICES IN PU(1,2) -- §17. LIN E ARRANGEMENTS: QUESTIONS -- Bibliography
Sommario/riassunto	The first part of this monograph is devoted to a characterization of hypergeometric-like functions, that is, twists of hypergeometric functions in n-variables. These are treated as an (n+1) dimensional vector space of multivalued locally holomorphic functions defined on the space of n+3 tuples of distinct points on the projective line P modulo, the diagonal section of Auto P=m. For n=1, the characterization may be regarded as a generalization of Riemann's classical theorem characterizing hypergeometric functions by their

	exponents at three singular points. This characterization permits the authors to compare monodromy groups corresponding to different parameters and to prove commensurability modulo inner automorphisms of PU(1,n). The book includes an investigation of elliptic and parabolic monodromy groups, as well as hyperbolic monodromy groups. The former play a role in the proof that a surprising number of lattices in PU(1,2) constructed as the fundamental groups of compact complex surfaces with constant holomorphic curvature are in fact conjugate to projective monodromy groups of hypergeometric functions. The characterization of hypergeometric-like functions by their exponents at the divisors "at infinity" permits one to prove generalizations in n-variables of the Kummer identities for n-1 involving quadratic and cubic changes of the variable.

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Autore	Tabari Hossein
Titolo	Statistical Analysis and Stochastic Modelling of Hydrological Extremes / Hossein Tabari
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ISBN	9783039216659 3039216651
Descrizione fisica	1 electronic resource (294 p.)
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Sommario/riassunto	Hydrological extremes have become a major concern because of their devastating consequences and their increased risk as a result of climate change and the growing concentration of people and infrastructure in high-risk zones. The analysis of hydrological extremes is challenging due to their rarity and small sample size, and the interconnections between different types of extremes and becomes further complicated by the untrustworthy representation of meso-scale processes involved

in extreme events by coarse spatial and temporal scale models as well as biased or missing observations due to technical difficulties during extreme conditions. The complexity of analyzing hydrological extremes calls for robust statistical methods for the treatment of such events. This Special Issue is motivated by the need to apply and develop innovative stochastic and statistical approaches to analyze hydrological extremes under current and future climate conditions. The papers of this Special Issue focus on six topics associated with hydrological extremes: Historical changes in hydrological extremes; Projected changes in hydrological extremes; Downscaling of hydrological extremes; Early warning and forecasting systems for drought and flood; Interconnections of hydrological extremes; Applicability of satellite data for hydrological studies.