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Autore	Kim Sang-hyun
Titolo	Flexibility of Group Actions on the Circle // by Sang-hyun Kim, Thomas Koberda, Mahan Mj
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Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (X, 136 p. 33 illus., 2 illus. in color.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2231
Disciplina	512.2 512.55
Soggetti	Group theory Dynamics Ergodic theory Manifolds (Mathematics) Complex manifolds Algebra Ordered algebraic structures Group Theory and Generalizations Dynamical Systems and Ergodic Theory Manifolds and Cell Complexes (incl. Diff.Topology) Order, Lattices, Ordered Algebraic Structures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	- Introduction -- Preliminaries -- Topological Baumslag Lemmas. - Splittable Fuchsian Groups. - Combination Theorem for Flexible Groups. - Axiomatics. - Mapping Class Groups. - Zero Rotation Spectrum and Teichmüller Theory.
Sommario/riassunto	In this partly expository work, a framework is developed for building exotic circle actions of certain classical groups. The authors give general combination theorems for indiscrete isometry groups of hyperbolic space which apply to Fuchsian and limit groups. An abundance of integer-valued subadditive defect-one quasimorphisms on these groups follow as a corollary. The main classes of groups

considered are limit and Fuchsian groups. Limit groups are shown to admit large collections of faithful actions on the circle with disjoint rotation spectra. For Fuchsian groups, further flexibility results are proved and the existence of non-geometric actions of free and surface groups is established. An account is given of the extant notions of semi-conjugacy, showing they are equivalent. This book is suitable for experts interested in flexibility of representations, and for non-experts wanting an introduction to group representations into circle homeomorphism groups.

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