1. Record Nr. UNINA9910816804803321

Autore	McMullen Curtis T.
Titolo	Renormalization and 3-manifolds which fiber over the circle / / by Curtis T. McMullen
Pubbl/distr/stampa	Princeton, New Jersey : , : Princeton University Press, , 1996 ©1996
ISBN	0-691-01154-0 1-4008-6517-4
Descrizione fisica	1 online resource (264 p.)
Collana	Annals of Mathematics Studies ; ; Number 142
Disciplina	514/.3
Soggetti	Three-manifolds (Topology) Differentiable dynamical systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Contents -- 1 Introduction -- 2 Rigidity of hyperbolic manifolds -- 3 Three-manifolds which fiber over the circle -- 4 Quadratic maps and renormalization -- 5 Towers -- 6 Rigidity of towers -- 7 Fixed points of renormalization -- 8 Asymptotic structure in the Julia set -- 9 Geometric limits in dynamics -- 10 Conclusion -- Appendix A. Quasiconformal maps and flows -- Appendix B Visual extension -- Bibliography -- Index
Sommario/riassunto	Many parallels between complex dynamics and hyperbolic geometry have emerged in the past decade. Building on work of Sullivan and Thurston, this book gives a unified treatment of the construction of fixed-points for renormalization and the construction of hyperbolic 3-manifolds fibering over the circle. Both subjects are studied via geometric limits and rigidity. This approach shows open hyperbolic manifolds are inflexible, and yields quantitative counterparts to Mostow rigidity. In complex dynamics, it motivates the construction of towers of quadratic-like maps, and leads to a quantitative proof of convergence of renormalization.