

1. Record Nr.	UNINA9910807038803321
Autore	Gallardo-Gutierrez Eva A. <1973->
Titolo	The role of the spectrum in the cyclic behavior of composition operators // Eva A. Gallardo-Gutierrez, Alfonso Montes-Rodriguez
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2004] ©2004
ISBN	1-4704-0389-7
Descrizione fisica	1 online resource (98 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 791
Disciplina	510 s 515/.7246
Soggetti	Function spaces Linear operators Functions of complex variables Hypergeometric functions
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 167, number 791 (first of 5 numbers)."
Nota di bibliografia	Includes bibliographical references (pages 79-81).
Nota di contenuto	""Contents""; ""Preface""; ""Chapter 1. Introduction and Preliminaries""; ""Weighted Hardy spaces""; ""The Dirichlet space""; ""The Hardy space""; ""Functional Hilbert spaces""; ""Composition operators""; ""Weighted Dirichlet spaces""; ""Equivalent norms on weighted Dirichlet spaces""; ""Linear fractional maps""; ""Iterates""; ""The Comparison Principle""; ""Main results""; ""Table I""; ""Table II""; ""Acknowledgment""; ""Chapter 2. Linear Fractional Maps with an Interior Fixed Point""; ""Non-elliptic linear fractional maps with an exterior fixed point""; ""Elliptic automorphism"" ""Interior and boundary fixed point""""Hypercyclicity""; ""The hyperbolic automorphism""; ""The Hypercyclic Criterion""; ""A Beurling type theorem""; ""The Inner Product Criterion""; ""Invariant subspaces of finite codimension""; ""Chapter 3. Non Elliptic Automorphisms""; ""Hypercyclicity""; ""The parabolic automorphism""; ""The hyperbolic automorphism""; ""The failure of the spectrum""; ""The eigenfunctions of $C[\text{sub}(\text{[omitted]})] [\text{sub}(\text{[omitted]})]$ with a parabolic automorphism""; ""Cyclicity""; ""The Dirichlet space of the upper half plane""; ""The Hardy

space of the upper half plane"

"A Paley-Wiener Theorem for  $D[\sub(I\in)]$ " "The parabolic automorphism"; "The hyperbolic automorphism"; "Chapter 4. The Parabolic Non Automorphism"; "Cyclicity"; "Zeros of weighted Dirichlet functions"; "Non hypercyclicity"; "An appetizer"; "The spectrum of  $C[\sub([\text{omitted}])]$ "; "The eigenfunctions form a spanning set"; "Renorming  $S[\sub(v)]$ "; "Isometric functional Hilbert spaces"; "A complete orthogonal system of  $L[\sup(2)] (R[\sup(+)], dt/t)$ "; "The extension of the isometries"; "The Laguerre polynomials"; "Chapter 5. Supercyclic Linear Fractional Composition Operators" "The easy part" "The parabolic non-automorphism"; "The Angle Criterion"; "The adjoint of  $C[\sub([\text{omitted}])]$ "; "A three term recurrence formula"; "An integration formula"; "Endnotes"; "Bibliography"

---