

1. Record Nr.	UNINA9910819233503321
Autore	Blokh Alexander M. <1958->
Titolo	Laminational models for some spaces of polynomials of any degree // Alexander Blokh [and three others]
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2020
ISBN	1-4704-6144-7
Descrizione fisica	1 online resource (118 pages)
Collana	Memoirs of the American Mathematical Society ; ; Number 1288
Classificazione	37F2037F1037F50
Disciplina	514/.742
Soggetti	Geodesics (Mathematics) Polynomials Invariant manifolds Combinatorial analysis Dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invariant laminations : general properties -- Special types of invariant laminations -- Applications : Spaces of topological polynomials.
Sommario/riassunto	"The so-called "pinched disk" model of the Mandelbrot set is due to A. Douady, J. H. Hubbard and W. P. Thurston. It can be described in the language of geodesic laminations. The combinatorial model is the quotient space of the unit disk under an equivalence relation that, loosely speaking, "pinches" the disk in the plane (whence the name of the model). The significance of the model lies in particular in the fact that this quotient is planar and therefore can be easily visualized. The conjecture that the Mandelbrot set is actually homeomorphic to this model is equivalent to the celebrated MLC conjecture stating that the Mandelbrot set is locally connected. For parameter spaces of higher degree polynomials no combinatorial model is known. One possible reason may be that the higher degree analog of the MLC conjecture is known to be false. We investigate to which extent a geodesic lamination is determined by the location of its critical sets and when different choices of critical sets lead to essentially the same lamination. This yields models of various parameter spaces of laminations similar to the "pinched disk" model of the Mandelbrot set"--

