

1. Record Nr.	UNINA9910755074503321
Autore	Dias João Lopes
Titolo	New Trends in Lyapunov Exponents [[electronic resource]] : NTLE, Lisbon, Portugal, February 7–11, 2022 // edited by João Lopes Dias, Pedro Duarte, José Pedro Gaivão, Silvius Klein, Telmo Peixe, Jaqueline Siqueira, Maria Joana Torres
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-41316-4
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (184 pages)
Collana	CIM Series in Mathematical Sciences, , 2364-9518
Altri autori (Persone)	DuartePedro GaivãoJosé Pedro KleinSilvius PeixeTelmo SiqueiraJaqueline TorresMaria Joana
Disciplina	515.39
Soggetti	Dynamical systems Mathematical physics Mathematics Dynamical Systems Mathematical Physics Applications of Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Lyapunov Exponents for Linear Homogeneous Differential Equations -- An invitation to $SL_2(\mathbb{R})$ cocycles over random dynamics -- Randomness Versus Quasi-Periodicity -- Hyperbolicity or Zero Lyapunov Exponents for C^2 -Hamiltonians -- Generalized Lyapunov exponents and aspects of the theory of deep learning -- On the Multifractal Formalism of Lyapunov Exponents: A Survey of Recent Results -- The Continuity Problem of Lyapunov Exponents -- Some Questions and Remarks on Lyapunov Irregular Behavior for Linear Cocycles.

This volume presents peer-reviewed surveys on new developments in the study of Lyapunov exponents in dynamical systems and its applications to other areas, such as mathematical physics. Written by leading experts in their fields, the contributions are based upon the presentations given by invited speakers at the “New Trends in Lyapunov Exponents” workshop held in Lisbon, Portugal, February 7–11, 2022. The works focus on the concept of Lyapunov exponents in their various manifestations in dynamical systems along with their applications to mathematical physics and other areas of mathematics. The papers reflect the spirit of the conference of promoting new connections among different subjects in dynamical systems. This volume aims primarily at researchers and graduate students working in dynamical systems and related fields, serving as an introduction to active fields of research and as a review of recent results as well.
