Noise-sustained patterns

Convectively unstable regime
+
noise
➡ Noise-sustained patterns

Taylor-Couette flow

Exp.

CGLE

z (units of d)

FIG. 7. Space-time plots of noise-sustained structure in the convectively unstable regime. (a) Experimental flow visualization with Kalliroscope for $R = 3.0$, $\epsilon = 0.021$ A, and $\lambda = 0.040$. (b) Integration of Eq. (5.2) with noise level $F_u = 2.1 \times 10^{-7}$.
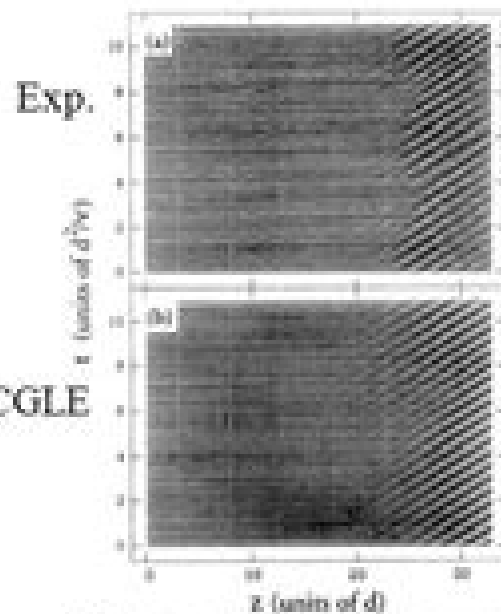
Variance of time spectra at a fixed position

abs.

conv.

Intensity

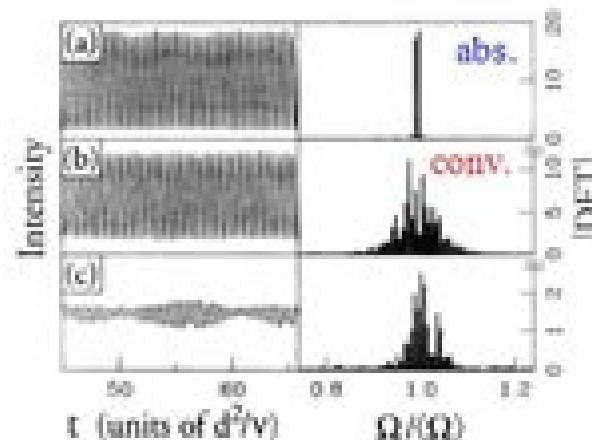|DFT|

t (units of d^2/v) $\Omega/\langle\Omega\rangle$

FIG. 10. Time series of reflected light, and their DFT moduli near the fundamental peak, at $z = 100$ for $R = 3.0$. About $\frac{1}{2}$ of each series is shown. (a) $\epsilon - \epsilon_c = 0.0896$. (b) $\epsilon - \epsilon_c = 0.0518$. The DFT peak shows considerable broadening. In (c), structure persists at small $\epsilon - \epsilon_c = 0.0077$.
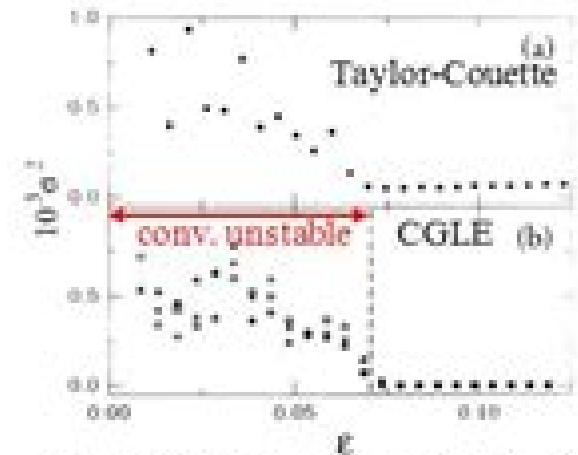

Taylor-Couette

conv. unstable   CGLE (b)

ϵ

FIG. 11. (a) Normalized second moment of the fundamental peak in the DFT power vs ϵ at $R = 3.0$ for experimental time series at $z = 100$. The transition at $\epsilon = 0.065$ indicates the onset of phase noise. (b) Corresponding results for Eq. (5.2) for inlet noise levels 10^{-6} (●), 10^{-7} (□), and 10^{-8} (○), respectively. The dashed line locates $\epsilon_c^{conv} = 0.073$.

K.L. Babcock, G. Ahlers, D.S. Cannell, PRE, **50**, 3670 (1994).

Noise Sustained Patterns

Gyorgy Buzsaki

Noise Sustained Patterns:

    Patterns, Defects and Materials Instabilities D. Walgraef,N.M. Ghoniem,2012-12-06 Understanding the origin of spatio temporal order in open systems far from thermal equilibrium and the selection mechanisms of spatial struc tures and their symmetries is a major theme of present day research into the structures of continuous matter The development of methods for pro ducing spatially ordered microstructures in solids by non equilibrium methods opens the door to many technological applications It is also be lieved that the key to laminar turbulence transitions in fluids lies in the achievement of spatio temporal order Let us also emphasize the fact that the idea of self organization in it self is at the origin of a reconceptualisation of science Indeed the appear ance of order which usually has been associated with equilibrium phase transitions appears to be characteristic of systems far from thermal equi librium This phenomenon which was considered exceptional at first now the rule in driven systems The chemical oscillations obtained appears to be in the Belousov Zhabotinskii reaction were initially considered to be ther modynamically impossible and were rejected by a large number of chemists Now these oscillations and related phenomena waves chaos etc are the subject of intensive research and new classes of chemical oscil lators have been recently discovered Even living organisms have long been considered as the result of chance rather than necessity Such points of view are now abandoned under the overwhelming influence of spatio tem poral organization phenomena in various domains ranging from physics to biology via chemistry nonlinear optics and materials science   Noise Sustained Patterns: Fluctuations And Nonlinearities Markus Loecher,2003-12-04 This book investigates the impact of noise upon the emergence and sustenance of patterns Patterns loosely refers to coherent spatial structures including fronts as well as temporal patterns The crucial role of nonlinearities is highlighted and expanded upon in the context of dynamical system frameworks The author s familiarity with chaos theory statistical physics and nonlinear science is reflected in the highly interdisciplinary character of the text Model equations and experiments taken from fluid dynamics semiconductor devices biophysics and statistical mechanics complement theoretical concepts It should be of great value to researchers and graduate students who desire a quick introduction to the subject Excursions into emerging fields such as traffic flow simulations and game theory serve to broaden the scope and to encourage the exploration of sundry topics   *Evolution of Spontaneous Structures in Dissipative Continuous Systems* Friedrich H. Busse,Stefan C. Müller,2003-07-01 In the decades the of the formation of structures past subject spontaneous in far from has into a branch of systems equilibrium major physics grown search with ties to It has become evident that strong neighboring disciplines a diverse of can be understood within a common mat phenomena range matical framework which has been called nonlinear of continuous dynamics This name the close to the field of nonlinear systems emphasizes relationship of with few of freedom which has evolved into a dynamics systems degrees mature in the recent features mathematically subject past Many dynamical of continuous be described reduction few can a to a systems actually through of freedom and of the latter of

continue to degrees properties type systems of continuous the inspire study systems The of this book is to demonstrate the numerous goal through examples that exist for the of nonlinear the opportunities study phenomena through tools of mathematical and use of common analyses dynamical interpretations Instead of overview of the a providing comprehensive rapidly evolving field the contributors to this book are to communicate to a wide scientific trying audience the of what have learnt about the formation of essence they spon neous structures in continuous and about the dissipative systems competition between order and chaos that characterizes these It is that systems hoped the book will be even to those scientists whose not helpful are disciplines the authors   *New Trends in Nonlinear Dynamics and Pattern-Forming Phenomena* Pierre Coullet,Patrick Huerre,2012-12-06 The basic aim of the NATO Advanced Research Workshop on New Trends in Nonlinear Dynamics and Pattern Forming Phenomena The Geometry of Nonequilibrium was to bring together researchers from various areas of physics to review and explore new ideas regarding the organisation of systems driven far from equilibrium Such systems are characterized by a close relationship between broken spatial and tempo ral symmetries The main topics of interest included pattern formation in chemical systems materials and convection traveling waves in binary fluids and liquid crystals defects and their role in the disorganisa tion of structures spatio temporal intermittency instabilities and large scale vortices in open flows the mathematics of non equilibrium systems turbulence and last but not least growth phenomena Written contributions from participants have been grouped into chapters addressing these different areas For additional clarity the first chapter on pattern formation has been subdivided into sections One of the main concerns was to focus on the unifying features between these diverse topics The various scientific communities repre sented were encouraged to discuss and compare their approach so as to mutually benefit their respective fields We hope that to a large degree these goals have been met and we thank all the participants for their efforts The workshop was held in Cargese Corsica France at the Institut d Etudes Scientifiques from August 2nd to August 12th 1988 We greatly thank Yves Pomeau and Daniel Walgraef who as members of the organising committee gave us valuable advice and encouragements   **Synchronization in Oscillatory Networks** Grigory V. Osipov,Jürgen Kurths,Changsong Zhou,2007-08-10 This work systematically investigates a large number of oscillatory network configurations that are able to describe many real systems such as electric power grids lasers or even the heart muscle to name but a few The book is conceived as an introduction to the field for graduate students in physics and applied mathematics as well as being a compendium for researchers from any field of application interested in quantitative models   **Spatial Solitons** Stefano Trillo,William Torruellas,2013-06-05 Soliton based concepts open the road for newly designed laser sources new frequency converters and high intensity laser material interactions Optical solitons as stable spatial patterns of complex nonlinear systems allow for the control of the diffraction of optical beams Solitons also prevent unwanted chaotic behavior Thus solitary wave physics plays a significant role from modern optical physics to optical communication optical switching and optical storage The book gives an updated overview of optical solitons and can serve as

a reference and guide for advanced students and scientists working in the field and related areas of science where solitons are observed   Formation, Dynamics And Statistics Of Patterns (Volume 1) Onuki Akira,Kyozi Kawasaki,Masuo Suzuki,1990-01-01 Patterns are becoming the focal point of many areas of scientific endeavour in recent years owing to the progress of computer science laboratory experiments and observations and analytical tools This book brings together articles by the leading experts in this field The following topics are discussed in this volume current status of pattern research with emphasis on real phenomena and new theoretical concepts interdisciplinary subjects involving Statistical Physics Condensed Matter Physics Fluid Mechanics Nonequilibrium and Nonlinear Phenomena   **Rhythms of the Brain** Gyorgy Buzsaki,2006-08-03 This book provides eloquent support for the idea that spontaneous neuron activity far from being mere noise is actually the source of our cognitive abilities In a sequence of cycles Gy rgy Buzs ki guides the reader from the physics of oscillations through neuronal assembly organization to complex cognitive processing and memory storage His clear fluid writing accessible to any reader with some scientific knowledge is supplemented by extensive footnotes and references that make it just as gratifying and instructive a read for the specialist The coherent view of a single author who has been at the forefront of research in this exciting field this volume is essential reading for anyone interested in our rapidly evolving understanding of the brain   Bounded Noises in Physics, Biology, and Engineering Alberto d'Onofrio,2013-09-12 Since the parameters in dynamical systems of biological interest are inherently positive and bounded bounded noises are a natural way to model the realistic stochastic fluctuations of a biological system that are caused by its interaction with the external world Bounded Noises in Physics Biology and Engineering is the first contributed volume devoted to the modeling of bounded noises in theoretical and applied statistical mechanics quantitative biology and mathematical physics It gives an overview of the current state of the art and is intended to stimulate further research The volume is organized in four parts The first part presents the main kinds of bounded noises and their applications in theoretical physics The theory of bounded stochastic processes is intimately linked to its applications to mathematical and statistical physics and it would be difficult and unnatural to separate the theory from its physical applications The second is devoted to framing bounded noises in the theory of random dynamical systems and random bifurcations while the third is devoted to applications of bounded stochastic processes in biology one of the major areas of potential applications of this subject The final part concerns the application of bounded stochastic processes in mechanical and structural engineering the area where the renewed interest for non Gaussian bounded noises started Pure mathematicians working on stochastic calculus will find here a rich source of problems that are challenging from the point of view of contemporary nonlinear analysis Bounded Noises in Physics Biology and Engineering is intended for scientists working on stochastic processes with an interest in both fundamental issues and applications It will appeal to a broad range of applied mathematicians mathematical biologists physicists engineers and researchers in other fields interested in complexity theory It is accessible to anyone with a working knowledge of stochastic

modeling from advanced undergraduates to senior researchers   **Nonlinear Dynamics and Chaos** J Hogan,A.R Krauskopf,Mario di Bernado,R. Eddie Wilson,Hinke. M Osinga,Martin. E Homer,Alan. R Champneys,2002-08-01 Nonlinear dynamics has been successful in explaining complicated phenomena in well defined low dimensional systems Now it is time to focus on real life problems that are high dimensional or ill defined for example due to delay spatial extent stochasticity or the limited nature of available data How can one understand the dynamics of such sys   **Instabilities and Nonequilibrium Structures VII & VIII** Orazio Descalzi,Javier Martínez,E. Tirapegui,2004-03-31 The contents of this book correspond to Sessions VII and VIII of the International Workshop on Instabilities and Nonequilibrium Structures which took place in Vi a del Mar Chile in December 1997 and December 1999 respectively Part I is devoted to self contained courses Three courses are related to new developments in Bose Einstein condensation the first one by Robert Graham studies the classical dynamics of excitations of Bose condensates in anisotropic traps the second by Marc Etienne Brachet refers to the bifurcations arising in attractive Bose Einstein condensates and superfluid helium and the third course by Andr Verbeure is a pedagogical introduction to the subject with special emphasis on first principles and rigorous results Part I is completed by two courses given by Michel Moreau the first one on diffusion limited reactions of particles with fluctuating activity and the second on the phase boundary dynamics in a one dimensional nonequilibrium lattice gas Part II includes a selection of invited seminars at both Workshops   **Emerging Frontiers in Nonlinear Science** Panayotis G. Kevrekidis,Jesús Cuevas-Maraver,Avadh Saxena,2020-05-29 This book explores the impact of nonlinearity on a broad range of areas including time honored fields such as biology geometry and topology but also modern ones such as quantum mechanics networks metamaterials and artificial intelligence The concept of nonlinearity is a universal feature in mathematics physics chemistry and biology and is used to characterize systems whose behavior does not amount to a superposition of simple building blocks but rather features complex and often chaotic patterns and phenomena Each chapter of the book features a synopsis that not only recaps the recent progress in each field but also charts the challenges that lie ahead This interdisciplinary book presents contributions from a diverse group of experts from various fields to provide an overview of each field s past present and future It will appeal to both beginners and seasoned researchers in nonlinear science numerous areas of physics optics quantum physics biophysics and applied mathematics ODEs PDEs dynamical systems machine learning as well as engineering   **Noise and Vibration Control** Ehsan Noroozinejad Farsangi,2019-10-02 The book presents a collection of articles on novel approaches to problems of current interest in vibration control by academicians researchers and practicing engineers from all over the world The book is divided into eight chapters and encompasses multidisciplinary areas within the scope of noise and vibration engineering such as structural dynamics structural mechanics finite element modeling vibration control and material vibration Noise and Vibration Control From Theory to Practice is a useful reference material for all engineering fraternities including undergraduate and postgraduate students academicians researchers and practicing

engineers **Instabilities and Nonequilibrium Structures VI** E. Tirapegui,Javier Martínez,Rolando Tiemann,2012-12-06 This book contains two introductory papers on important topics of nonlinear physics The first one by M San Miguel et al refers to the effect of noise in nonequilibrium systems The second by M E Brachet is a modern introduction to turbulence in fluids The material can be very useful for short courses and is presented accordingly The authors have made their texts self contained The volume also contains a selection of the invited seminars given at the Sixth International Workshop on Instabilities and Nonequilibrium Structures Audience This book should be of interest to graduate students and scientists interested in the fascinating problems of nonlinear physics *Spatio-Temporal Pattern Formation* Daniel Walgraef,2012-12-06 Spatio temporal patterns appear almost everywhere in nature and their description and understanding still raise important and basic questions However if one looks back 20 or 30 years definite progress has been made in the modeling of insta bilities analysis of the dynamics in their vicinity pattern formation and stability quantitative experimental and numerical analysis of patterns and so on Universal behaviors of complex systems close to instabilities have been determined leading to the wide interdisciplinarity of a field that is now referred to as nonlinear science or science of complexity and in which initial concepts of dissipative structures or synergetics are deeply rooted In pioneering domains related to hydrodynamics or chemical instabilities the interactions between experimentalists and theoreticians sometimes on a daily basis have been a key to progress Everyone in the field praises the role played by the interactions and permanent feedbacks between ex perimental numerical and analytical studies in the achievements obtained during these years Many aspects of convective patterns in normal fluids binary mixtures or liquid crystals are now understood and described in this framework The generic pres ence of defects in extended systems is now well established and has induced new developments in the physics of laser with large Fresnel numbers Last but not least almost 40 years after his celebrated paper Turing structures have finally been ob tained in real life chemical reactors triggering anew intense activity in the field of reaction diffusion systems Computational Approaches for Ageing and Age-related diseases Stanley Durrleman,Daniel C. Alexander,Ninon Burgos,Holger Fröhlich,Neil P. Oxtoby,Viktor Wottschel,2022-08-11 **Conference Digest** ,2000

Pattern Formation in Liquid Crystals Agnes Buka,Lorenz Kramer,2012-12-06 In the last 20 years the study of nonlinear nonequilibrium phenomena in spa tially extended systems with particular emphasis on pattern forming phenomena has been one of the very active areas in physics exhibiting interesting ramifi cations into other sciences During this time the study of the classic systems like Rayleigh Benard convection and Taylor vortex flow in simple fluids has also been supplemented by the study of more complex systems Here liquid crystals have played and are still playing a major role One might say that liquid crystals provide just the right amount and right kind of complexity They are full of non linearities and give rise to new symmetry classes which are sometimes actually simpler to deal with qualitatively but they still allow a quantitative description of experiments in many cases In fact one of the attractions of the field is the close contact between

experimentalists and theorists Hydrodynamic instabilities in liquid crystals had already experienced a period of intense study in the late 1960s and early 1970s but at that time neither the ex perimental and theoretical tools nor the concepts had been developed sufficiently far to address the questions that have since been found to be of particular interest The renewed interest is also evidenced by the fact that a new series of workshops has evolved The first one took place in 1989 in Bayreuth and united participants from almost all groups working in pattern formation in liquid crystals **Artificial Intelligence and Sustainable Computing** Manjaree Pandit,M. K. Gaur,Sandeep Kumar,2024-04-23 This book presents high quality research papers presented at the 5th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering and Technology ICSISCET 2023 held at Madhav Institute of Technology Science MITS Gwalior India during October 21 22 2023 The book extensively covers recent research in artificial intelligence AI that knit together nature inspired algorithms evolutionary computing fuzzy systems computational intelligence machine learning deep learning etc which is very useful while dealing with real problems due to their model free structure learning ability and flexible approach These techniques mimic human thinking and decision making abilities to produce systems that are intelligent efficient cost effective and fast The book provides a friendly and informative treatment of the topics which makes this book an ideal reference for both beginners and experienced researchers *Stochastic Neuron Models* Priscilla E. Greenwood,Lawrence M. Ward,2016-02-02 This book describes a large number of open problems in the theory of stochastic neural systems with the aim of enticing probabilists to work on them This includes problems arising from stochastic models of individual neurons as well as those arising from stochastic models of the activities of small and large networks of interconnected neurons The necessary neuroscience background to these problems is outlined within the text so readers can grasp the context in which they arise This book will be useful for graduate students and instructors providing material and references for applying probability to stochastic neuron modeling Methods and results are presented but the emphasis is on questions where additional stochastic analysis may contribute neuroscience insight An extensive bibliography is included Dr Priscilla E Greenwood is a Professor Emerita in the Department of Mathematics at the University of British Columbia Dr Lawrence M Ward is a Professor in the Department of Psychology and the Brain Research Centre at the University of British Columbia

Noise Sustained Patterns Book Review: Unveiling the Power of Words

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web vectors a vector is something with both magnitude and direction on diagrams they are denoted by an arrow where the length tells us the magnitude and the arrow tells us direction you will need to add and subtract vectors you will also need to multiply vectors and understand scalar multiples of vectors

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