

Materialien zu Seminar-Vorträgen WS 2017/18 / betreut von S J Linz

- Rogue waves: unique approach to multidisciplinary physics
 - S. Residori, M. Onorato, U. Bortolozzo, F. T. Arecchi
Rogue waves: a unique approach to multidisciplinary physics (review article)
[Contemporary Physics](#) **58**, 53-69 (2017)
 - A. Chabchoub et al
The nonlinear Schrödinger equation and the propagation of weakly nonlinear waves in optical fibers and on the water surface
[Ann. Phys.](#) **361**, 490-500 (2015)
 - N. K. Vitanov, A. Chabchoub, N. Hoffmann
Deep-Water Waves: on the Nonlinear Schrödinger Equation and its Solutions
[Journal of Theoretical and Applied Mechanics](#) **43**, 43-54 (2013)
- Physics of fracture, friction, earthquakes
 - H. Kawamura et al.
Statistical physics of fracture, friction, earthquakes
[Rev. Mod. Phys.](#) **84**, 839 (2012)
 - E. Daub, J. Carlson
Friction, Fracture, and Earthquakes
[Ann. Rev. Cond. Matter Phys.](#) **1**, 4.1-4.22 (2010)
 - G. L. Vasconcelos
First order phase transition in a model for earthquakes
[Phys. Rev. Lett.](#) **76**, 4865 (1996)
 - P. Hähner, Y. Drossinos
Nonlinear dynamics of a continuous spring-block model of earthquake faults
[J. Phys. A: Math. Gen.](#) **31**, L185–L191 (1998)
- fully nonlinear dynamics of the Foucault pendulum
 - A.J. Hobbs
A Description of the Motion of a Foucault Pendulum (elementary explanation)
[handout 2010, unpublished](#)
 - R. Moeckel
The Foucault Pendulum (with a Twist)
[SIAM Review](#) **59**, 369-389 (2017)
- Nonlinear dynamics and statistical physics of DNA
 - M. Peyrard
Nonlinear dynamics and statistical physics of DNA (review article)
[Nonlinearity](#) **17**, R1-R40 (2004)