# Periodic forcing and symmetry breaking of waves in excitable media

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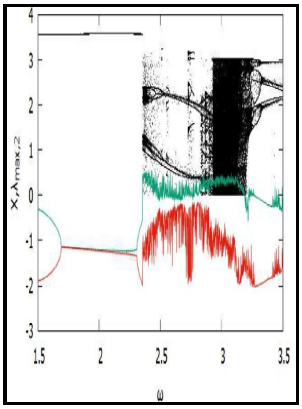


Description: -
-Periodic forcing and symmetry breaking of waves in excitable media
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For both multiple wavelet and mother rotor VF, cardiac heterogeneity plays an important role.

**Spiral waves in excitable media due to noise and periodic forcing**

In particular, for meandering spirals, it is much more sophisticated to extract the aforementioned skew-product structure since spatio-temporal rather than only spatial symmetries have to be accounted for. Physica D: Nonlinear Phenomena 2004, 199 1-2 , 243-263. The main features of this method are its capability to deal with domains of arbitrary shape and its easy implementation via fast Fourier transform routines.

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It is also shown that strip forcing not only destroys the spiral wave, it also increases the period and width of the breathing-type motions that result from such a destruction.

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Resonance attractors of spiral waves in excitable media under global feedback. Dubbeldam, Bernd Krauskopf, Daan Lenstra. Chemical Physics Letters 1998, 289 1-2 , 35-40.

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The results are applied to bifurcations of stable patterns arising in reactiondiffusion systems on the plane or in three-space modeling chemical systems such as catalysis on platinum surfaces and Belousov-Zhabotinsky reactions. N Electrical wave propagation in the heart shares many of the properties of wave propagation in other excitable media Winfree, 1986.

**Spiral waves in three**

Key words: excitable media, Euclidean symmetry, scroll wave, parametric forcing 1 Introduction Wave propagation in reaction-diusion systems with excitable dynamics occurs in a wide variety of chemical and biological contexts. Communications in Theoretical Physics 2011, 56 3 , 467-475.

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