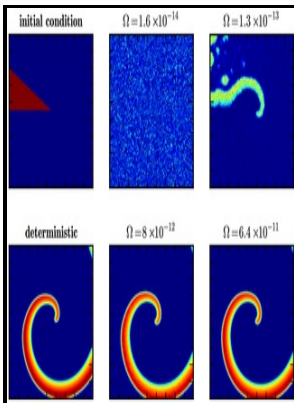


# Periodic forcing and symmetry breaking of waves in excitable media

typescript - CiteSeerX — Citation Query Stationary and drifting spiral waves of excitation in isolated cardiac muscle. Nature 355, 349



Description: -

-Periodic forcing and symmetry breaking of waves in excitable media

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## Control of spiral waves in excitable media

. . The collapse of axisymmetric rings can be enhanced or retarded significantly with resonant forcing.

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

A light-sensitive variant of the BZ reaction has proven to be a suitable system for investigating local and global control by means of a time-dependent uniform illumination.

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The dRDM framework employs a FitzHugh-Nagumo type RD model coupled to a masslattice model, that undergoes finite deformations.

## CiteSeerX — Parametric Forcing of Scroll

It is also observed that the noise makes significant effects on the spiral wave with straight-line drift. The original time-stepping scheme is improved to provide greater accuracy and a 19-point approximation for the Laplacian operator in 3D is shown to have significant advantages ov. Dynamics of Spiral Waves under Phase Feedback Control in a Belousov-Zhabotinsky Reaction.

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

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At the codimension-two point where in an appropriate sense the frequency at Hopf bifurcation equals the frequency of the spiral wave, Barkley notes that spiral tip meandering can turn to linearly translating spiral tip motion. The scaling of mean and uctuating axial drift due to forcing is determined.

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