

# Movie Captions

- Movie 1

Propagation of a vortex along the boundary of the Möbius strip: the vortex travels counterclockwise along the entire boundary, with a vorticity vector field  $\omega N$  (shown by the arrow in the centre of the vortex) reversing direction as the along-strip coordinate  $\theta$  increases by  $\pi$ .

- Movie 2

Shear instability on a Möbius strip: the vorticity pseudo-scalar  $\omega$  is shown at six successive time intervals, starting with a perturbation of the field shear.

- Movie 3

Decaying turbulence on a Möbius strip: the vorticity pseudo-scalar  $\omega$  is shown at six successive equal time intervals.