

# Vortex Bursting

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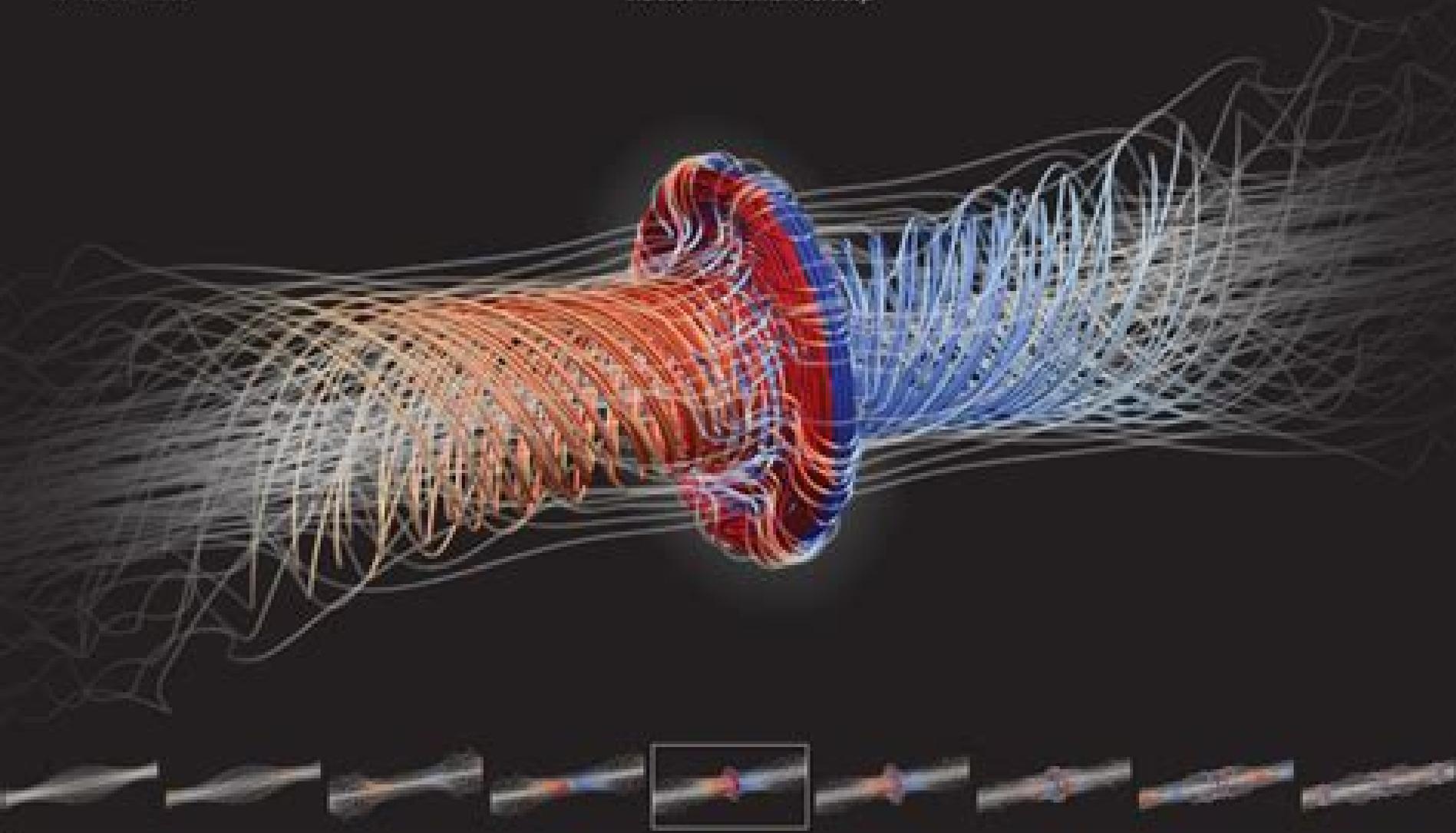
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A periodic,  $Re=10^4$  vortex tube is initialized with a sinusoidal axial perturbation in its core size. The associated axial variation in vorticity leads to differential tilting of the vorticity vector, so that helical twist waves appear along the tube.

The twist waves collide in a process called vortex bursting: a local, rapid, radial expansion of the vortex tube, accompanied by a four-fold increase in maximum vorticity.

The process is reversed as the twist waves change their handedness and move away from the bursting region.

The images below show vortex lines of the simulated flow colored by azimuthal vorticity, revealing the remarkable beauty and intricacy of the vortex as the field lines wind and twist around each other.



# Gallery Of Fluid Motion

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