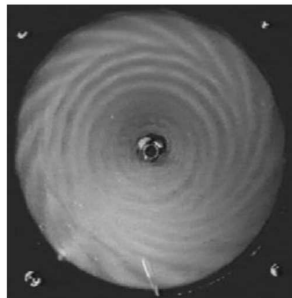


3D



Spiral rolls are a linear instability of the base flow. Well captured by an experiment and a DNS.



Hopf spirals

240

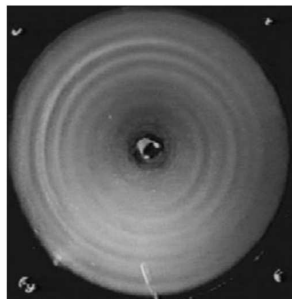
(Gelfgat, 2015)

273

(Schouveiler, 2001)

Re

2D



subcritical states?

Hopf branch?

224

(Schouveiler, 2001)

3000

(Daube & Le Quéré, 2001)

Re