

The evolution of the large-scale flow in magnetoconvection

Till Zürner

Felix Schindler

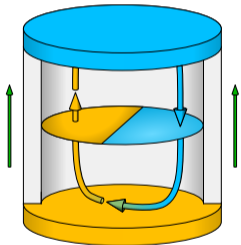
Tobias Vogt

Sven Eckert

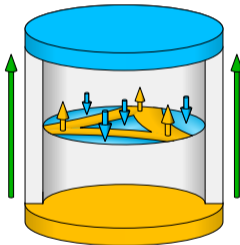
Jörg Schumacher

Experiments of Rayleigh-Bénard convection in liquid metals with a vertical magnetic field

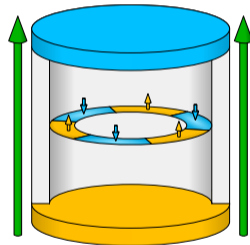
- How are large scale flow structures altered with increasing magnetic field strength?



One roll structure



Cellular



Wall modes

- How are heat and momentum transport affected by the changes in the flow field?