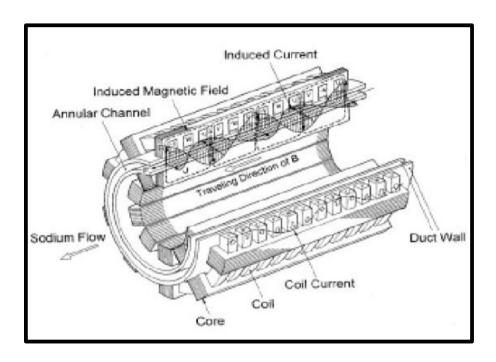
## MHD instabilities in electromagnetic pumps



Me: Paola Rodriguez Imazio

Work with: Christophe Gissinger, Stephan Fauve

Backround: Ph.D in UBA, Argentina, with P. Mininni in rotating turbulence

## Electromagnetic pump

Flow moves in an annular channel by the action of the Lorentz force generated by an applied magnetic field

**Motivation 1**: Annular linear induction pump (ALIP)

- No moving parts
- Low vibration
- Ease of maintenance

**Motivation 2**: Fundamental Physics in MHD

- MHD instabilities
- Electromagnetic forcing
- Turbulence and induction

