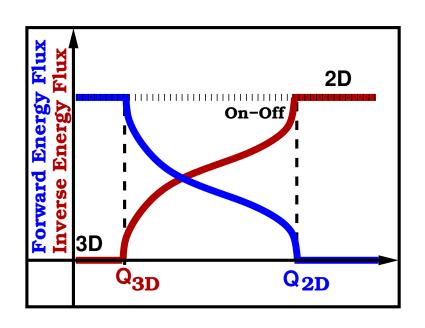
<u>Critical Transitions in Thin Layer Turbulence</u>

Santiago BENAVIDES & Alexandros ALEXAKIS (LPS ENS)

- 2D Turbulence:
 - Large scale structures form
- 3D Turbulence:
 - Small scale structures form
- Thin layer:
 - . 33





- Main question: do these properties change smoothly or is there a *critical transition* between the regimes?
- To investigate we measure inverse and forward energy flux vs. Q = (π/L). See left fig.

<u>Critical Transitions in Thin Layer Turbulence</u>

Santiago BENAVIDES & Alexandros ALEXAKIS (LPS ENS)

- Numerically investigated on reduced 3D model (truncation)
- Results: Found both critical points

