

Reversing mean flows emerge from turbulently-generated internal waves

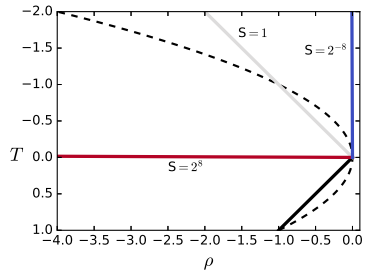
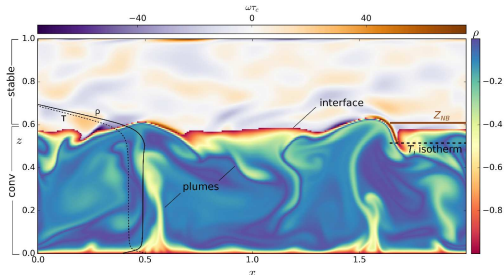
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$$\partial_t \mathbf{u} + \mathbf{u} \cdot \nabla \mathbf{u} = -\nabla p - Pr Ra \rho \mathbf{e}_z + Pr \nabla^2 \mathbf{u}$$

$$\partial_t T + \mathbf{u} \cdot \nabla T = \nabla^2 T$$

$$\nabla \cdot \mathbf{u} = 0$$

$$\rho(T) = -\alpha(T)T = \begin{cases} -T & \text{if } T \geq 0 \\ ST & \text{if } T \leq 0 \end{cases}$$



A Quasi-Biennial Oscillation in DNS?

