
Measured multiple flow states in turbulent thermal convection with aspect ratio 10

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Abstract

We report an experimental investigation of turbulent Rayleigh–Bénard convection in a rectangular cell of large aspect ratio ($\Gamma = 10$) over the Rayleigh number range $5.4 \times 10^7 \leq Ra \leq 7.2 \times 10^9$ and Prandtl number range $4.3 \leq Pr \leq 67.3$. Planar particle image velocimetry measurements

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