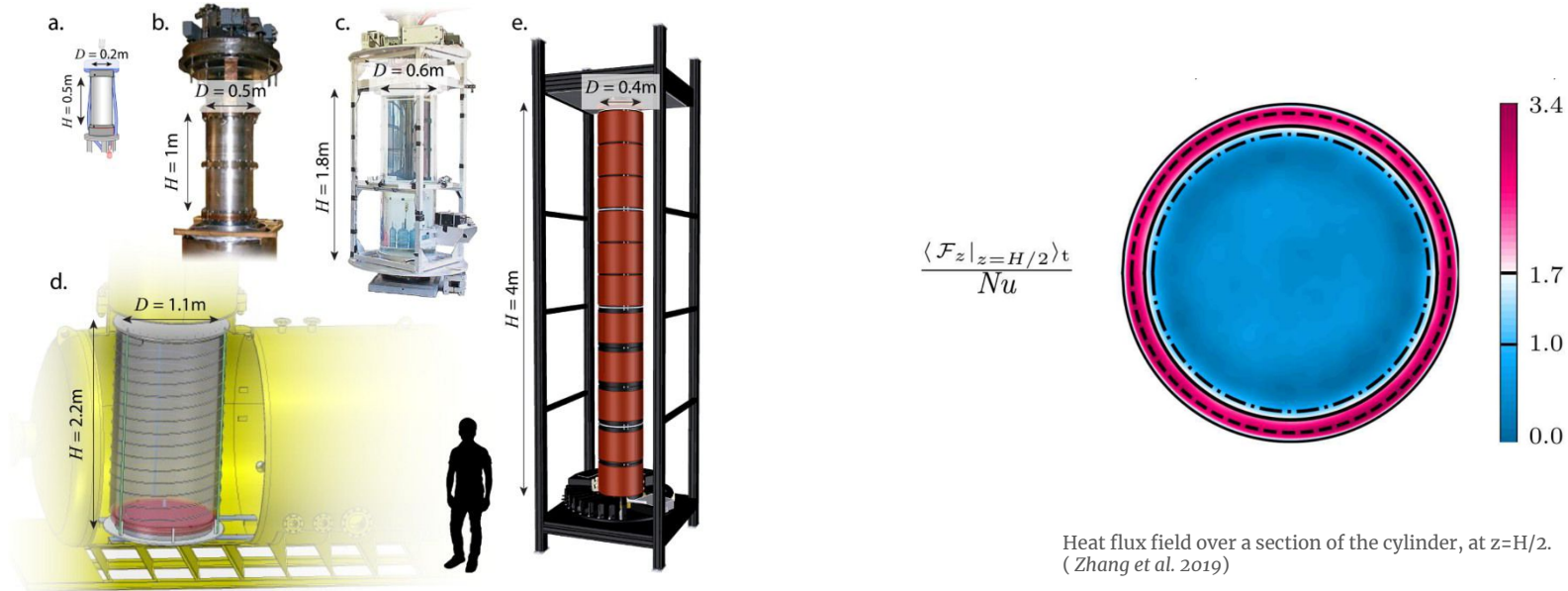


Suppression of wall modes in rapidly-rotating Rayleigh-Bénard convection

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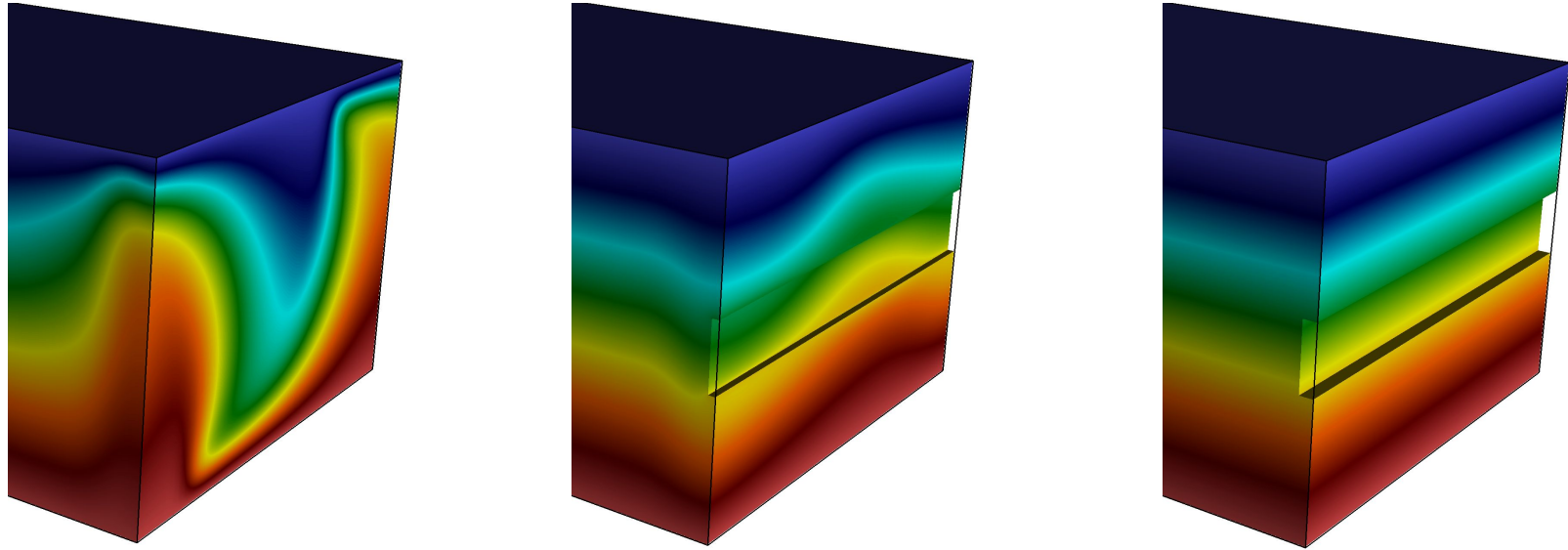


Heat flux field over a section of the cylinder, at $z=H/2$.
(Zhang et al. 2019)

Images of several extreme rotating convection setups. (a) “RoMag” at UCLA (liquid gallium, $Pr \approx 0.025$), (b) Trieste experiment at ICTP (cryogenic liquid He, $Pr \approx 0.7$) (c) “NoMag” at UCLA (water, $Pr \approx 4-7$), (d) “U-Boot” at the Max Planck Institute for Dynamics and Self-Organization (SF6, N2, He gas, $Pr \approx 0.8$) and (e) “TROCONVEX” at Eindhoven University of Technology (water, $Pr \approx 2-7$). (Cheng et al. 2018)

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Suppression of the wall modes with a barrier by increasing the width ε (Terrien et al. 2023)