

# Movie Captions

- Movie 1

Movie of the temperature iso-surfaces at  $T = 0.43$  (blue, cold fluid),  $T = 0.57$  (orange, hot fluid). Results for  $Ra = 3 \times 10^8$  and  $Re = 125$ , corresponding to Fig. 5e in the main paper. The display speed is 10 freefall time units per second.

- Movie 2

Movie of the temperature iso-surfaces at  $T = 0.43$  (blue, cold fluid),  $T = 0.57$  (orange, hot fluid). Results for  $Ra = 3 \times 10^8$  and  $Re = 500$ , corresponding to Fig. 5f in the main paper. The display speed is 10 freefall time units per second.

- Movie 3

Movie of the temperature iso-surfaces at  $T = 0.43$  (blue, cold fluid),  $T = 0.57$  (orange, hot fluid). Results for  $Ra = 3 \times 10^8$  and  $Re = 1000$ , corresponding to Fig. 5g in the main paper. The display speed is 10 freefall time units per second.

- Movie 4

Movie of the temperature iso-surfaces at  $T = 0.43$  (blue, cold fluid),  $T = 0.57$  (orange, hot fluid). Results for  $Ra = 3 \times 10^8$  and  $Re = 4000$ , corresponding to Fig. 5h in the main paper. The display speed is 2.5 freefall time units per second.