

## Movie caption list

Movie 1: RB convection with drops at  $We = 16000$  and  $\Lambda = 1$ , corresponding to Fig. 1.

Movie 2: Two-layer RB convection at  $We = 5$  and  $\Lambda = 0.3$ , non-breakup, corresponding to Fig. 3(a).

Movie 3: Two-layer RB convection at  $We = 600$  and  $\Lambda = 0.3$ , non-breakup, corresponding to Fig. 3(b).

Movie 4: Two-layer RB convection at  $We = 2000$  and  $\Lambda = 0.3$ , breakup, corresponding to Fig. 3(c).

Movie 5: Two-layer RB convection at  $We = 20$  and  $\Lambda = 0.8$ , non-breakup, corresponding to Fig. 5(a).

Movie 6: Two-layer RB convection at  $We = 30$  and  $\Lambda = 0.8$ , breakup, corresponding to Fig. 5(b).