(a)

(b) $t = 850.5$

Ra = 8000
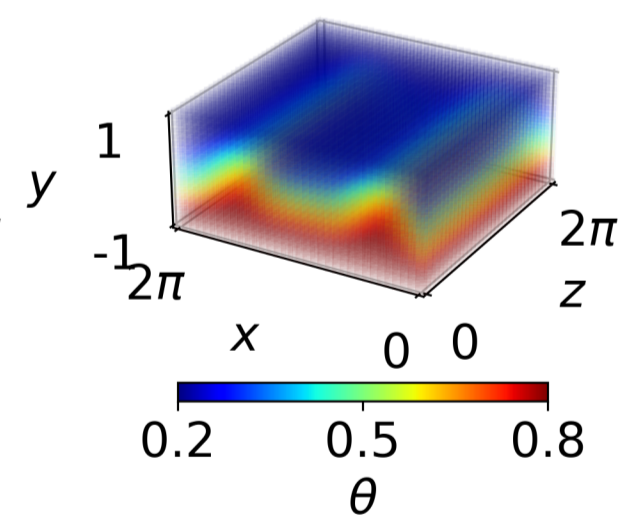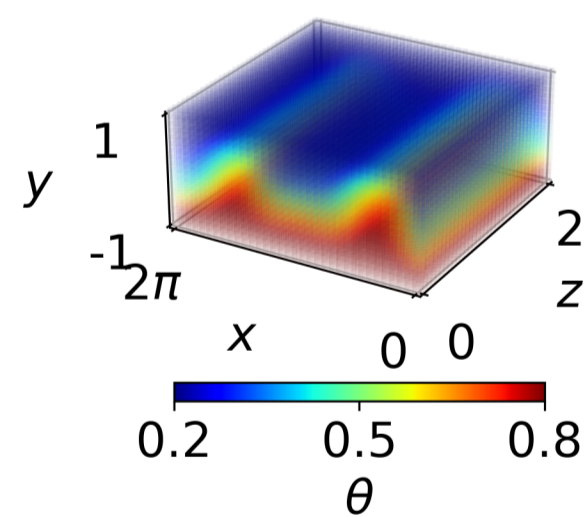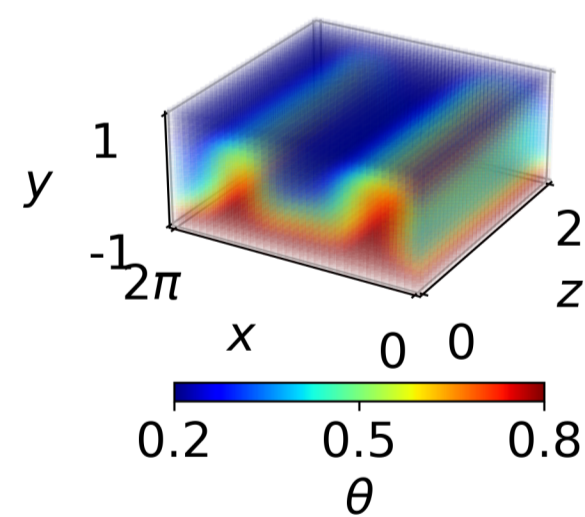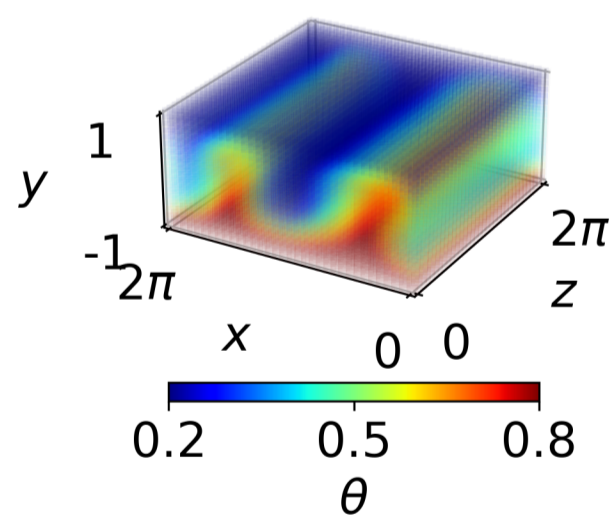
Ra = 2000

Ra = 5000

Ra = 3000

(c) $t = 1312.5$

(e) $t = 1312.5$

(g) $t = 1312.5$

(i) $t = 1312.5$

(d) $t = 1743.0$

(f) $t = 3570.0$

(h) $t = 4200.0$

(j) $t = 4200.0$