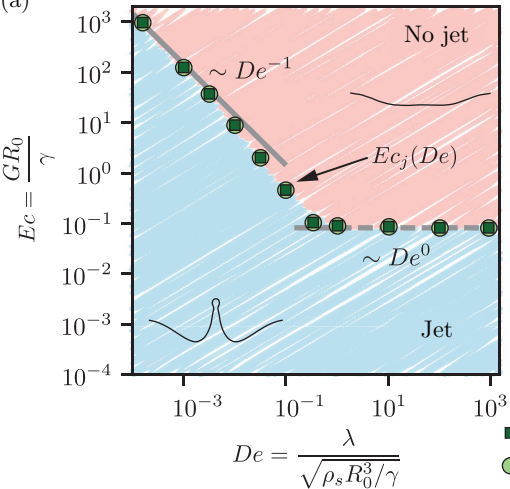
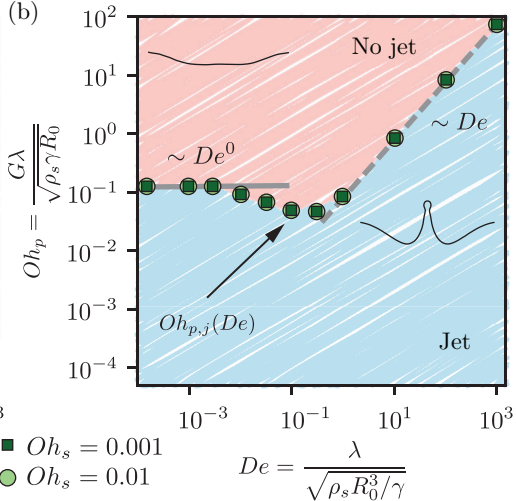


(a)



(b)



■ $Oh_s = 0.001$
 ● $Oh_s = 0.01$

$$De = \frac{\lambda}{\sqrt{\rho_s R_0^3 / \gamma}}$$