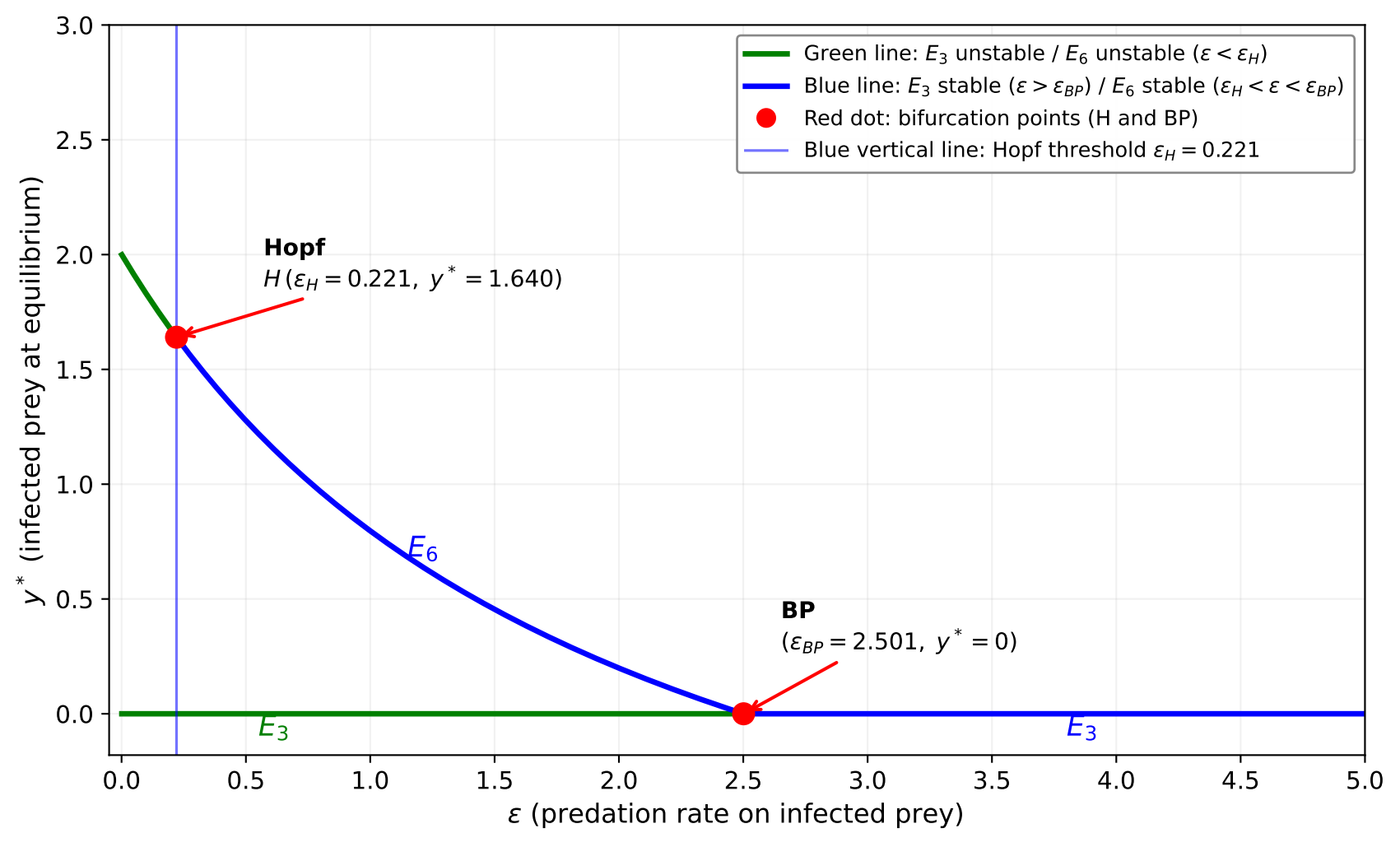
Green line: E_3 unstable / E_6 unstable ($\varepsilon < \varepsilon_H$)
Blue line: E_3 stable ($\varepsilon > \varepsilon_{BP}$) / E_6 stable ($\varepsilon_H < \varepsilon < \varepsilon_{BP}$)
Red dot: bifurcation points (H and BP)
Blue vertical line: Hopf threshold $\varepsilon_H = 0.221$
Hopf
$H\,(\varepsilon_H = 0.221,\ y^* = 1.640)$
E_6
BP
($\varepsilon_{BP} = 2.501,\ y^* = 0$)
E_3
E_3
y^* (infected prey at equilibrium)
ε (predation rate on infected prey)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0