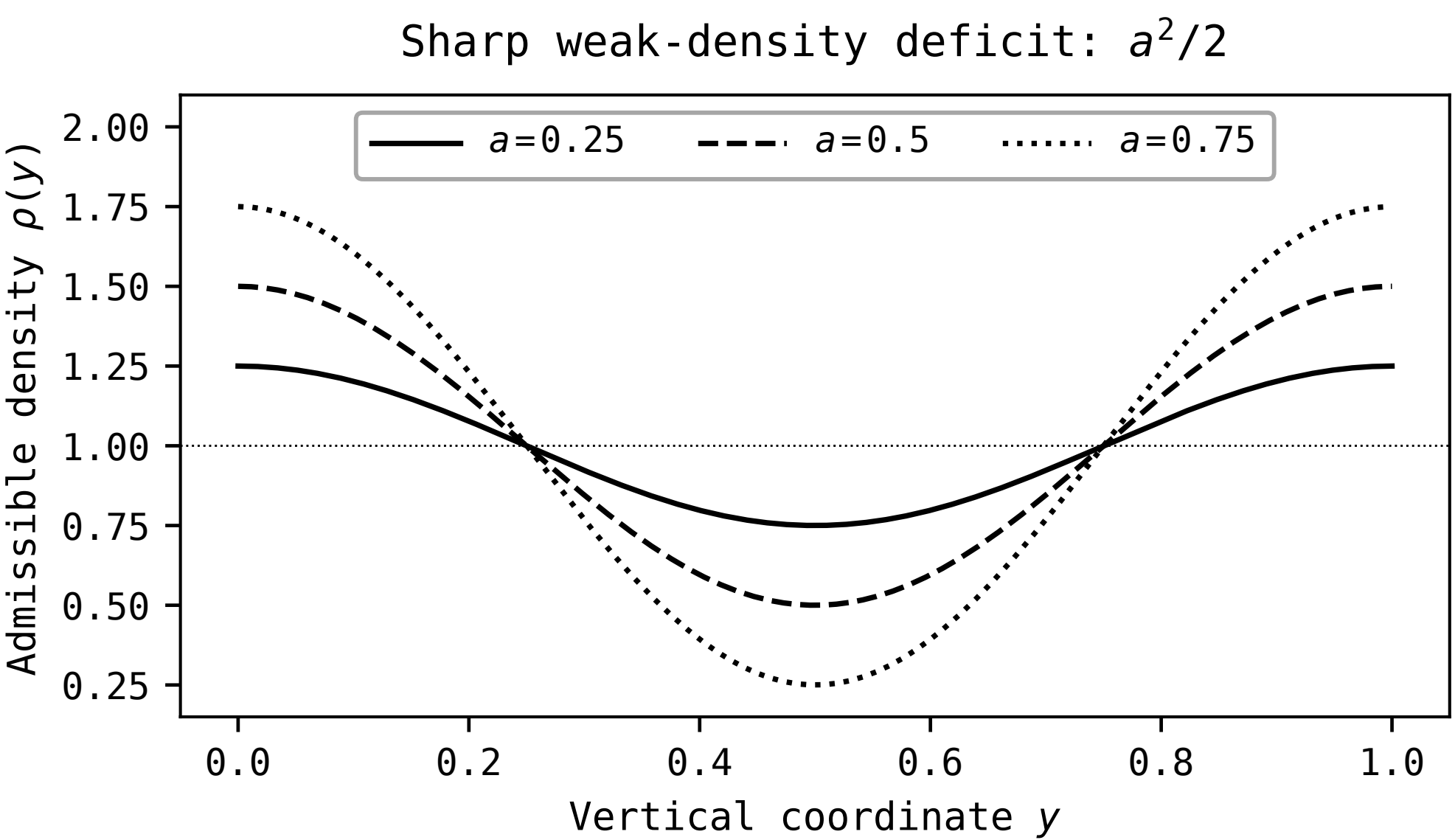

Sharp weak-density deficit: $a^2/2$
a=0.25
a=0.5
a=0.75
Admissible density $\rho(y)$
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.0
0.2
0.4
0.6
0.8
1.0
Vertical coordinate y