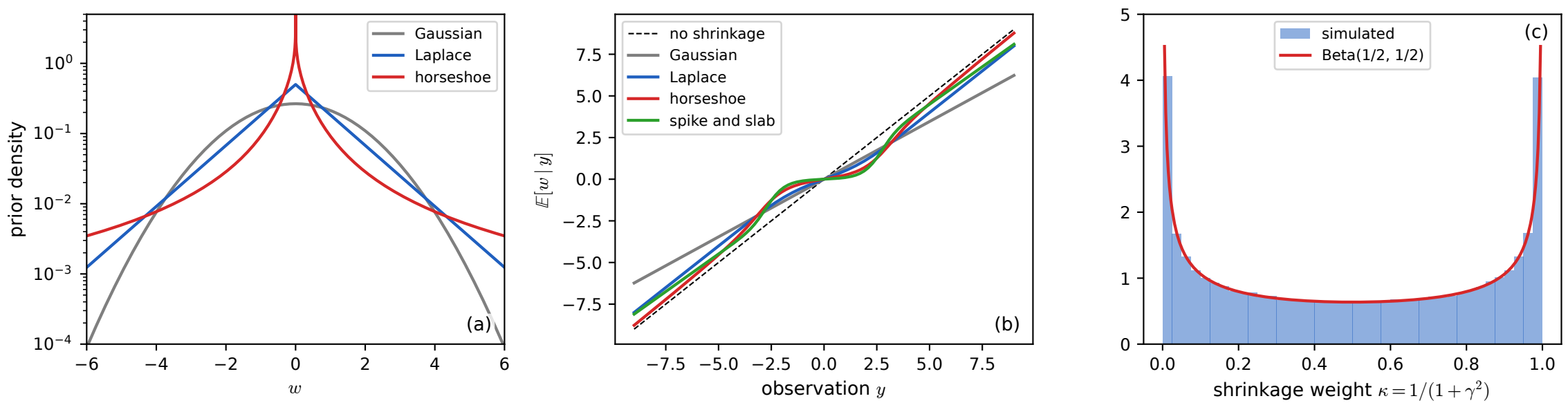

Gaussian
Laplace
horseshoe
prior density
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
−6
−4
−2
0
2
4
6
w
(a)
no shrinkage
Gaussian
Laplace
horseshoe
spike and slab
$\mathbb{E}[w \mid y]$
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
observation y
(b)
simulated
Beta(1/2, 1/2)
(c)
0
1
2
3
4
5
0.0
0.2
0.4
0.6
0.8
1.0
shrinkage weight $\kappa = 1/(1+\gamma^2)$