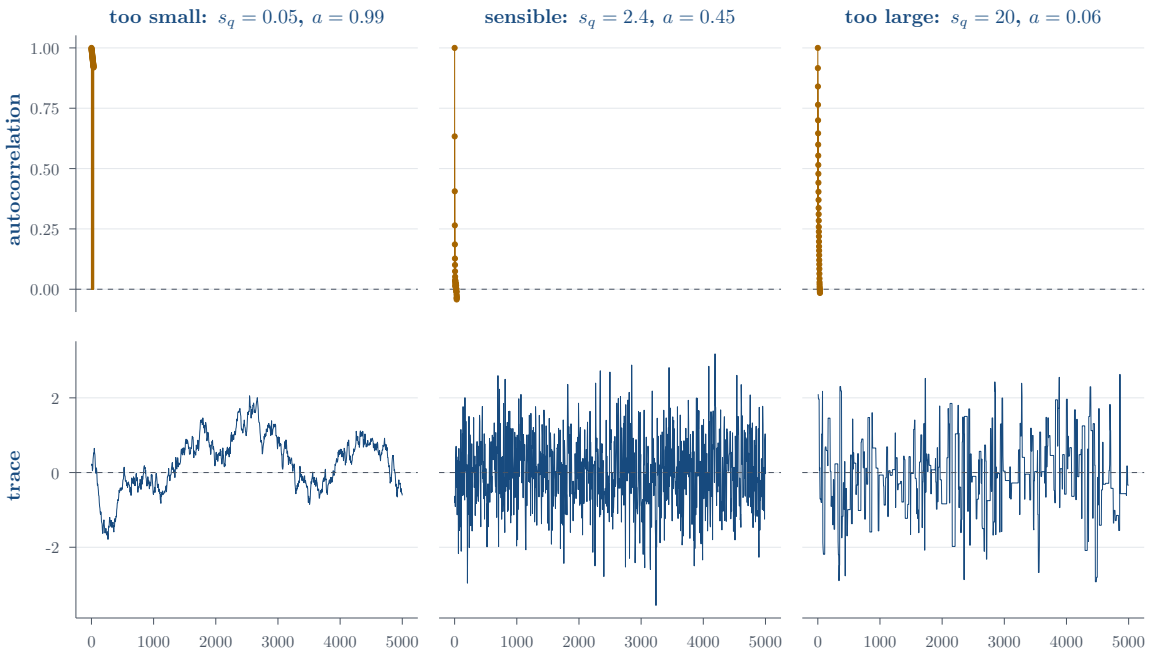

too small: $s_q = 0.05$, $a = 0.99$
sensible: $s_q = 2.4$, $a = 0.45$
too large: $s_q = 20$, $a = 0.06$
autocorrelation
1.00
0.75
0.50
0.25
0.00
trace
2
0
-2
0
1000
2000
3000
4000
5000