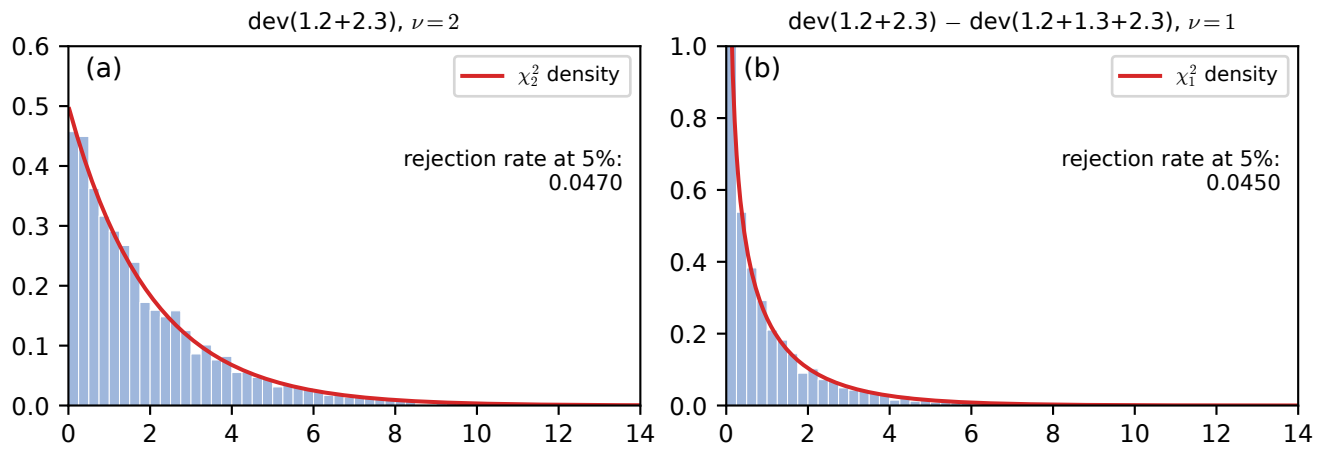

dev(1.2+2.3), $\nu = 2$
(a)
χ^2_2 density
rejection rate at 5%:
0.0470
dev(1.2+2.3) − dev(1.2+1.3+2.3), $\nu = 1$
(b)
χ^2_1 density
rejection rate at 5%:
0.0450