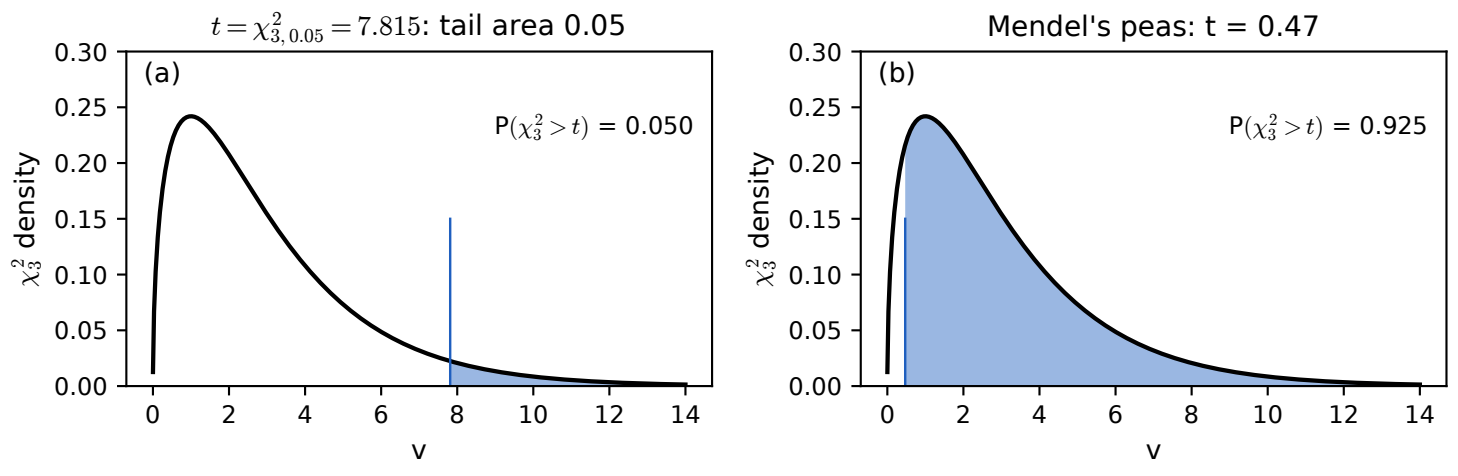

$t = \chi^2_{3,\,0.05} = 7.815$: tail area 0.05
(a)
$P(\chi^2_3 > t)$ = 0.050
χ^2_3 density
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
14
v
Mendel's peas: t = 0.47
(b)
$P(\chi^2_3 > t)$ = 0.925
χ^2_3 density
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
14
v