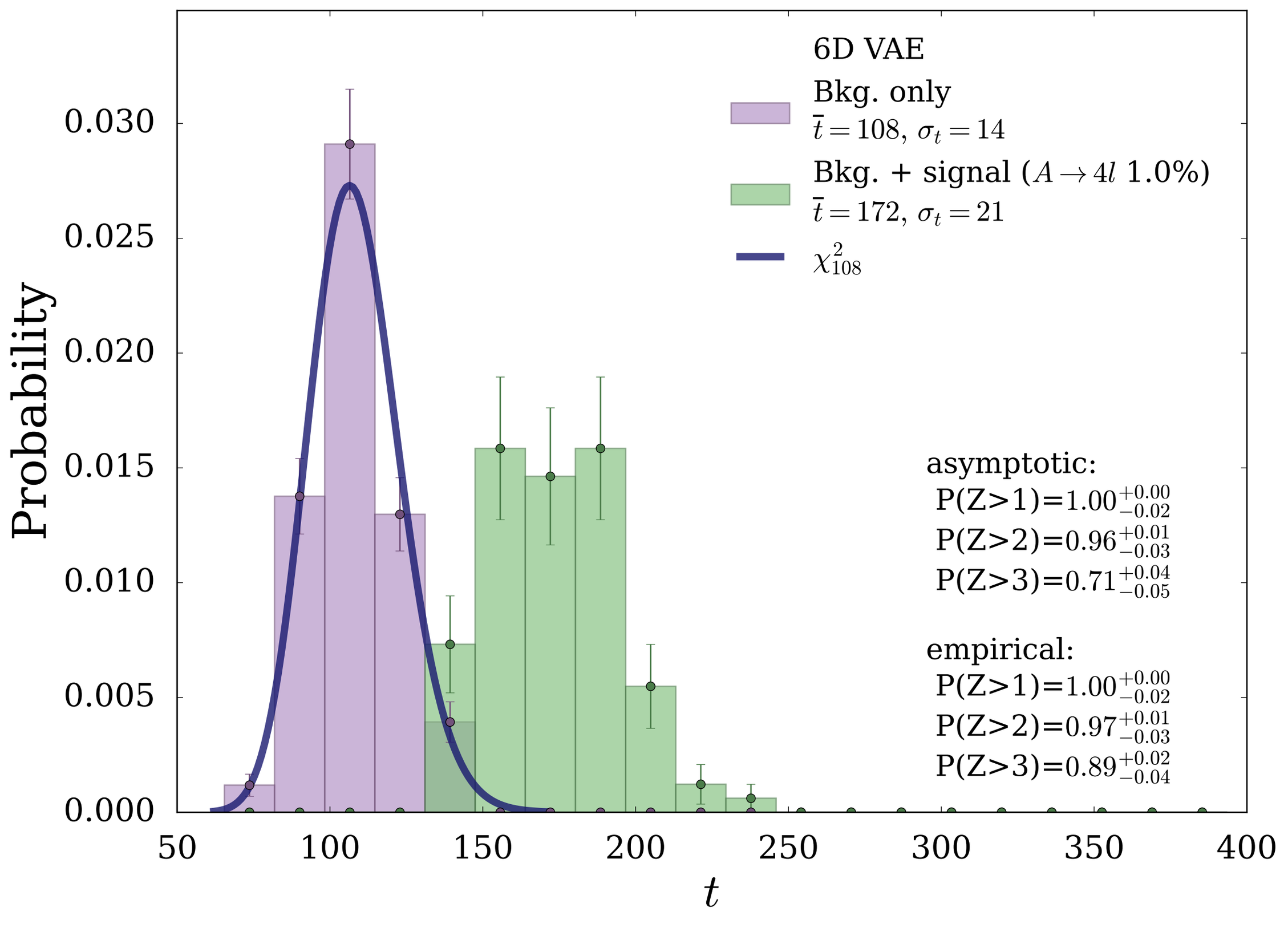
6D VAE
Bkg. only
$\bar{t} = 108$, $\sigma_t = 14$
Bkg. + signal ($A \to 4l$ 1.0%)
$\bar{t} = 172$, $\sigma_t = 21$
χ^2_{108}
asymptotic:
P(Z>1)=$1.00^{+0.00}_{-0.02}$
P(Z>2)=$0.96^{+0.01}_{-0.03}$
P(Z>3)=$0.71^{+0.04}_{-0.05}$
empirical:
P(Z>1)=$1.00^{+0.00}_{-0.02}$
P(Z>2)=$0.97^{+0.01}_{-0.03}$
P(Z>3)=$0.89^{+0.02}_{-0.04}$
Probability
0.030
0.025
0.020
0.015
0.010
0.005
0.000
50
100
150
200
250
300
350
400
t