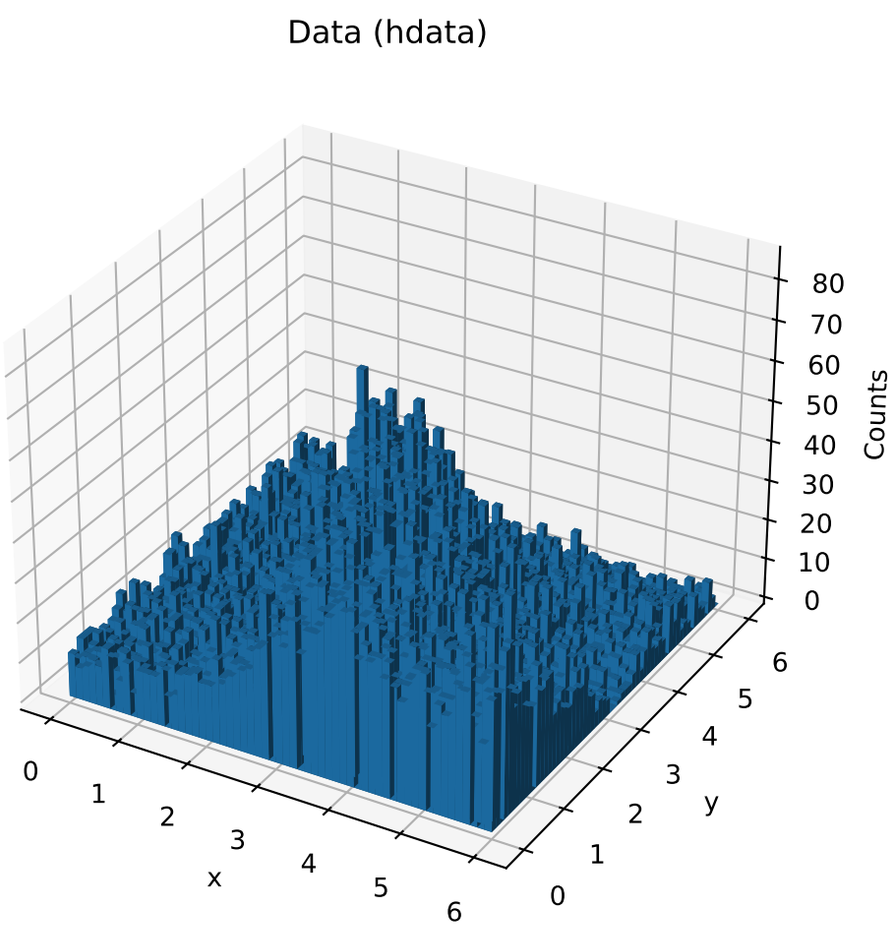
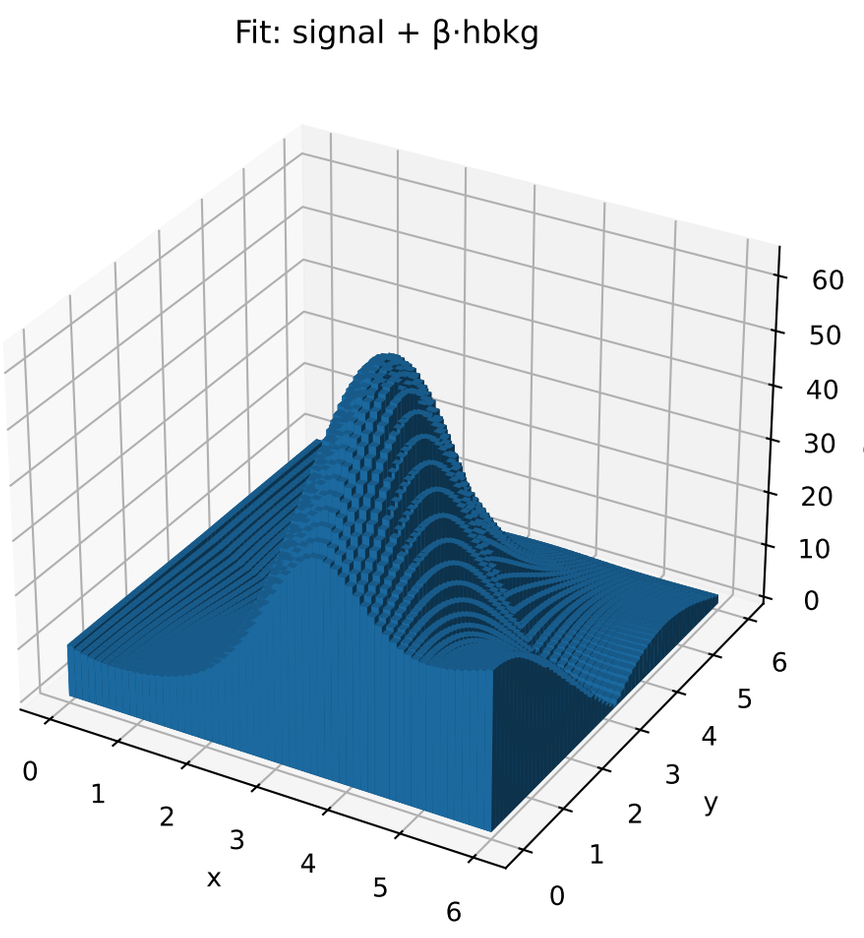
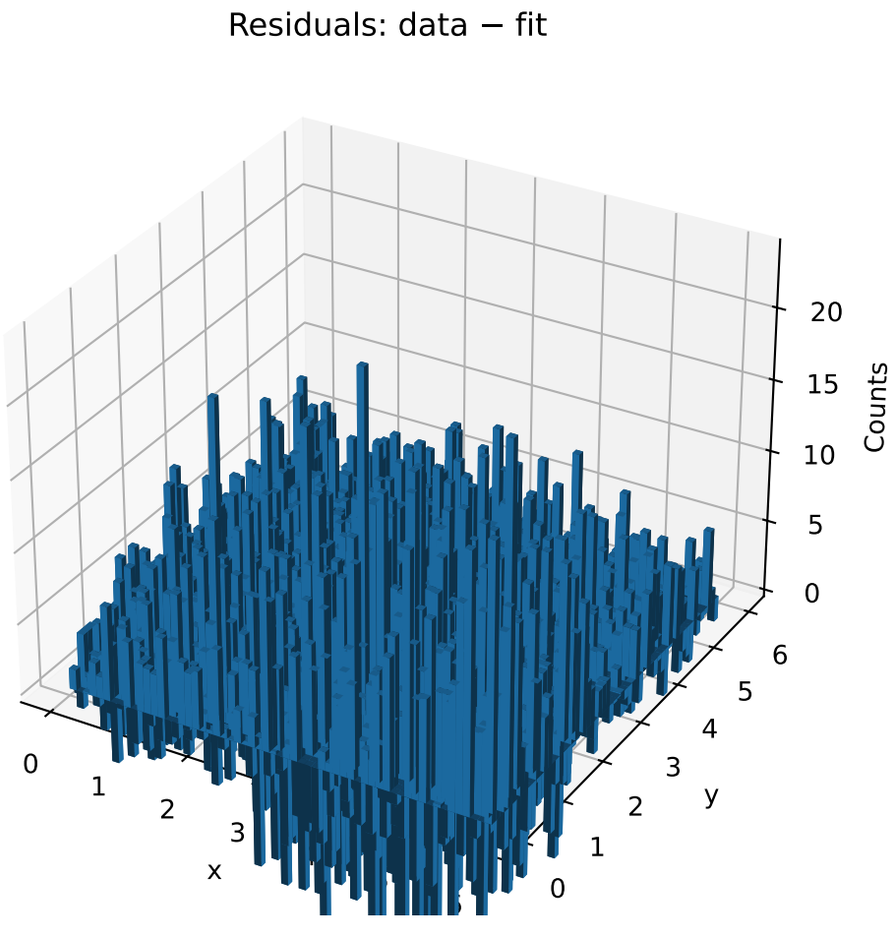
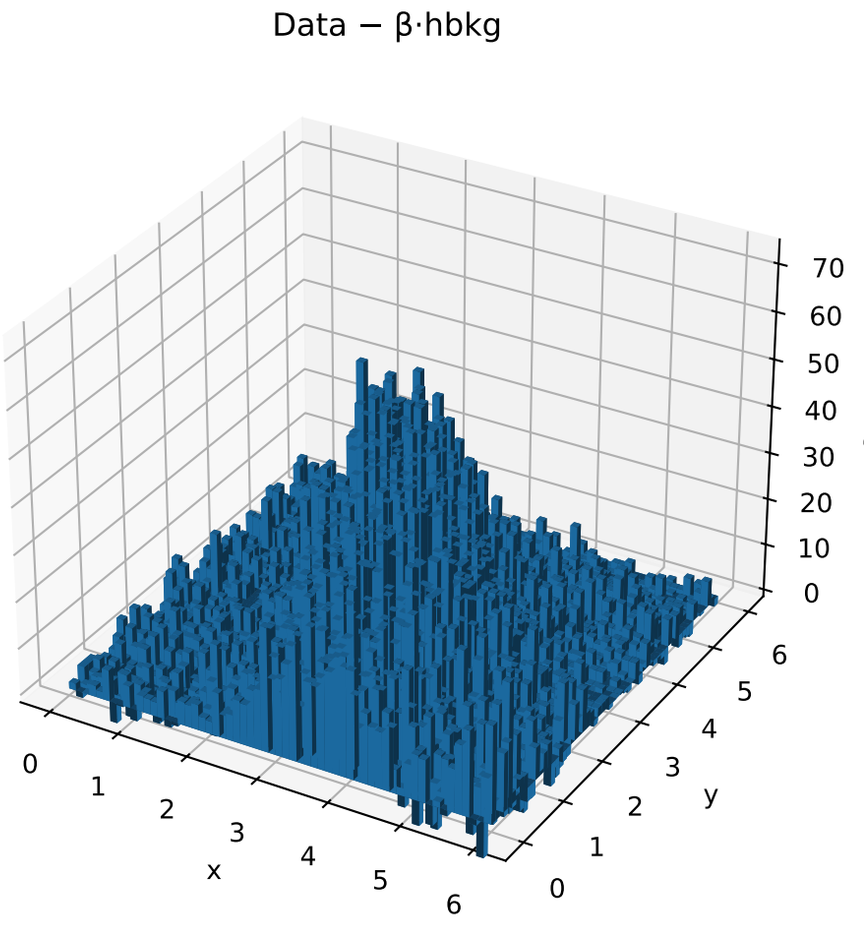

Data (hdata)
Counts
x
y


Fit: signal + β·hbkg
x
y


Residuals: data − fit
Counts
x
y


Data − β·hbkg
x
y

Fit summary

A = 54 ± 0.6093
mux = 3.517 ± 0.006245
sigx = 0.6995 ± 0.005836
muy = 1.904 ± 0.01719
sigy = 1.382 ± 0.01486
beta = 0.2451 ± 0.002635

chi² = 4111.1, dof = 3565, p = 3.38e-10

Estimated total signal events = 29975.169 ± 288.401

Fit the data with bump + background.
Signal count = sum of fitted bump over all bins.
Error comes from fit's own uncertainties: let each fitted number wiggle by its error and see how the sum would change.
Combine those changes and take square root