

A scatter plot showing the distribution of log-likelihood values for 1000 simulated datasets. The x-axis is labeled 'log-likelihood' and ranges from  $-10^2$  to  $10^1$ . The y-axis is labeled 'log-likelihood' and ranges from  $-10^1$  to  $10^1$ . A horizontal dashed line is drawn at log-likelihood = 0. The data points are blue circles, showing a distribution centered around 0, with a tail extending to the left.

