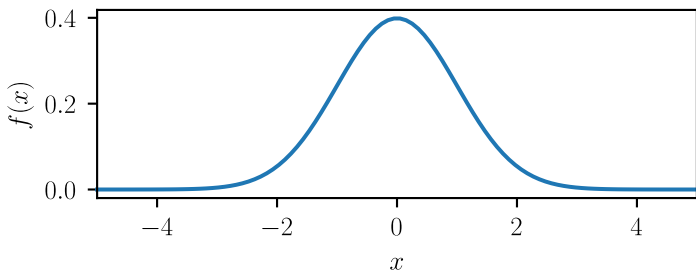Normal distribution

Histogram of the sum of squares of N numbers drawn from the normal distribution $M = 10000000$ times