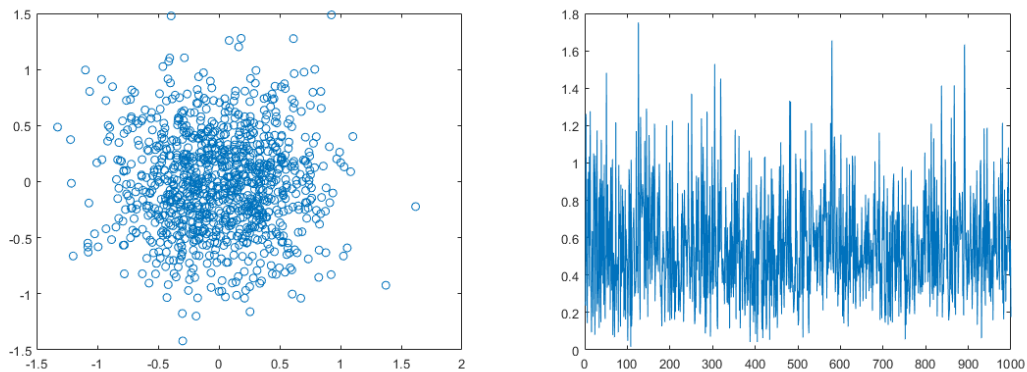# 1

Simply use 'plot(nt,'o')' and 'plot(abs(nt),'o')', the results are
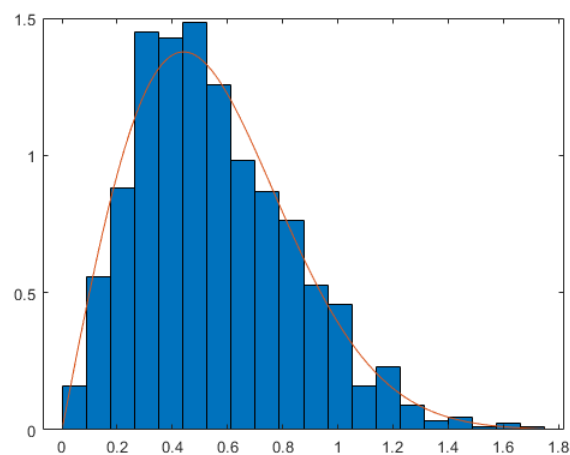

2

By calculating the mean and variance, the results are

```
est_mean =

  -0.0018 - 0.0135i


est_var =

    0.1939
```

3

Divide the distribution to 20 slots, the diagram for |n(t)| is the blue bars.

Rayleigh distribution with variance equals to the estimated variance in 2 is the orange line.

4

Divide the distribution to 20 slots, the diagram for ang(n(t)) is the blue bars.

Uniform distribution from 0 to 2π is the orange line.