

## I21RANDS

### Additon of exponential-functions with random angles

The real part of the sum of  $\exp i \theta$  is plotted.

$$\begin{aligned} f &:= 1..100 & N_f &:= f & k &:= 1, 2..1000 & i &:= \sqrt{-1} \\ \theta_k &:= \text{rnd}(2 \cdot \pi) \end{aligned}$$

$$y_f := \frac{1}{N_f} \cdot \sum_{k=0}^{N_f} e^{i \cdot (\theta_k)}$$

