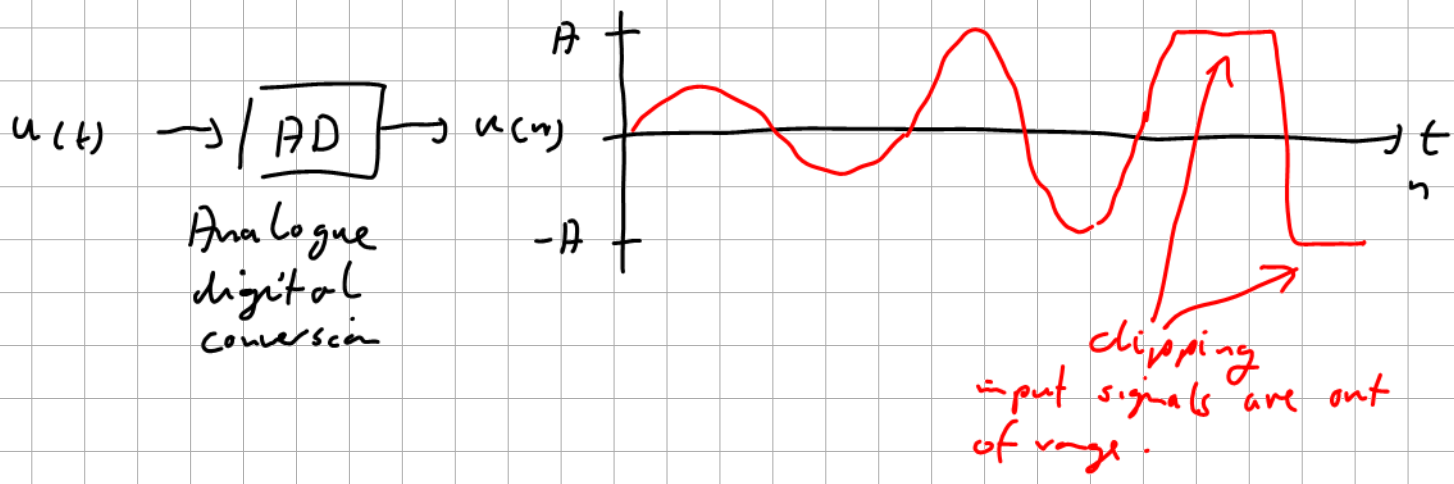


Power of periodic signal $u(t)$ | $u(n)$

periodicity T

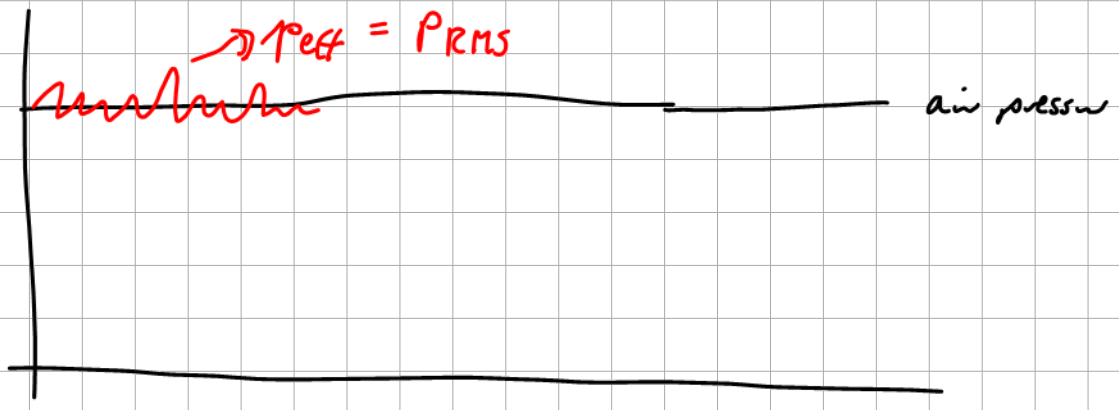
$$P = \frac{1}{T}\int_0^T u^2(t)\,dt \qquad P = \frac{1}{N}\sum_{n=0}^{N-1} u^2(n)$$

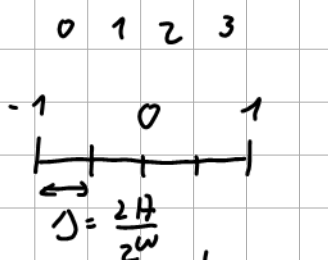
$$RMS = \sqrt{P} = \sqrt{\frac{1}{T}\int_0^T u^2(t)\,dt} \qquad RMS = \sqrt{P} = \dots$$

---

dB SPL:

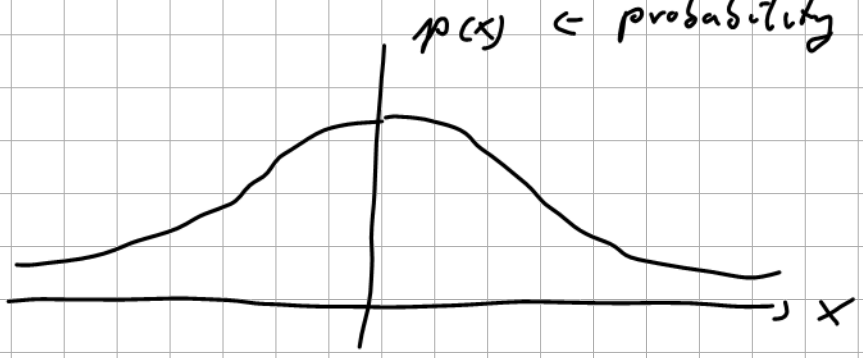
$20\,30\cdot$
$h\,P_a$

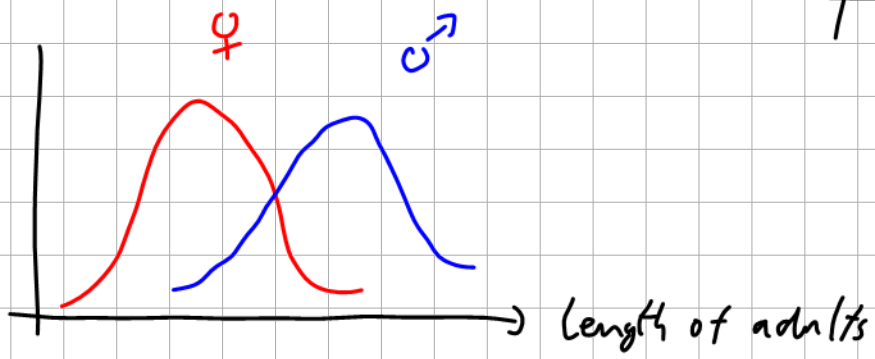




$w = 2 \rightarrow 2^2$ states

x = np.random.randn(1000) → Gaussian distributed

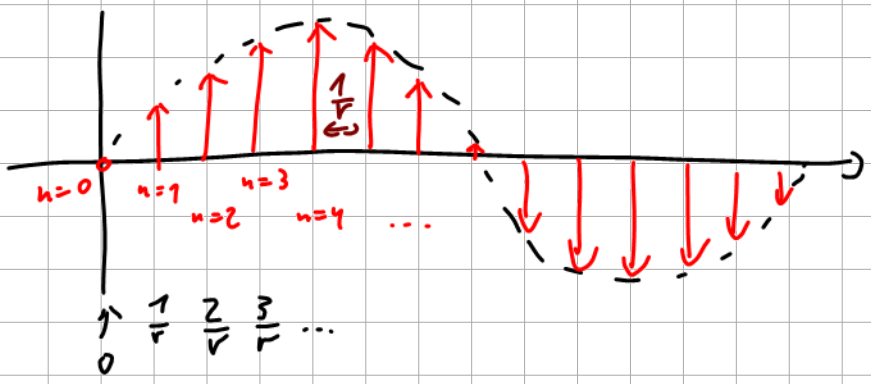




x = numpy.linalg.lstsq(A, b) solves $A \cdot x = b$

$A \cdot x - b \approx 0$

time discrete sinus



n = np.arange(...)

$t = n \cdot \frac{1}{f}$