

Chaos & Spectrum

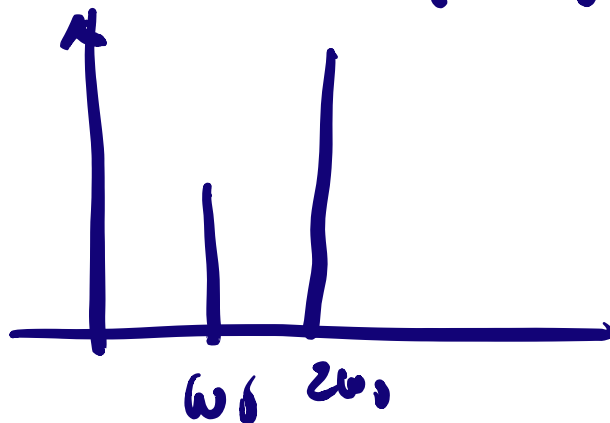
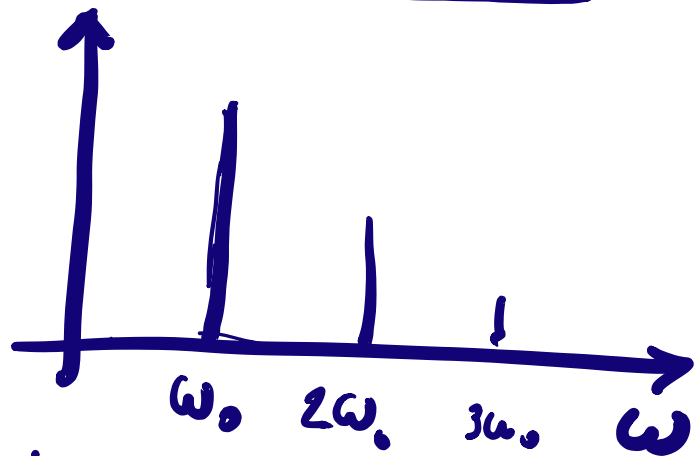
Have signal $S(t)$

If S is periodic

$$S(t) = \sum S_n e^{in\omega_0 t} \quad \underline{\underline{\text{some } \omega}}$$

power spectra

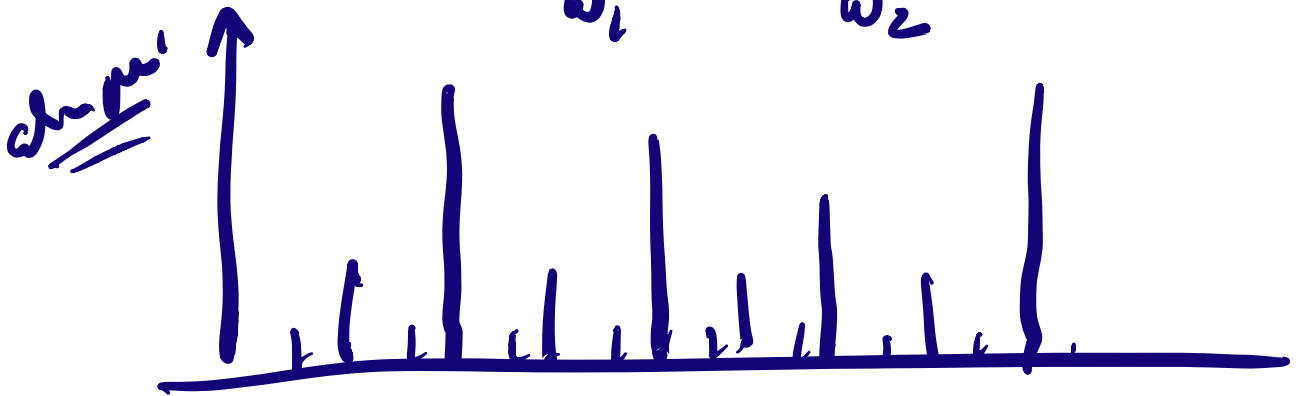
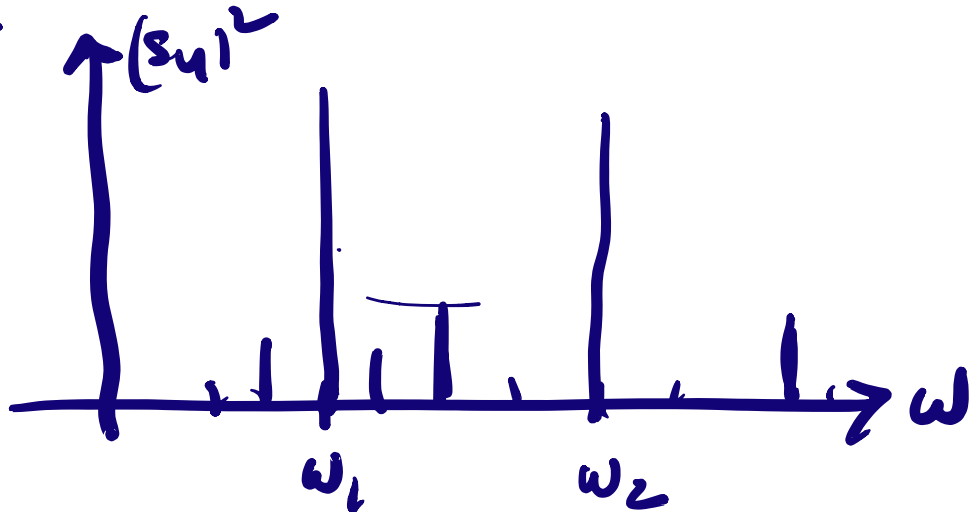
$\rightarrow |S_n|^2$
values $n\omega$



gives periodic 2 periods

$$\omega_{\vec{n}} = n_1 \omega_1 + n_2 \omega_2$$

$$\sum_{\vec{n}} s_{\vec{n}} e^{i\omega_{\vec{n}} t}$$



As shown before

1

