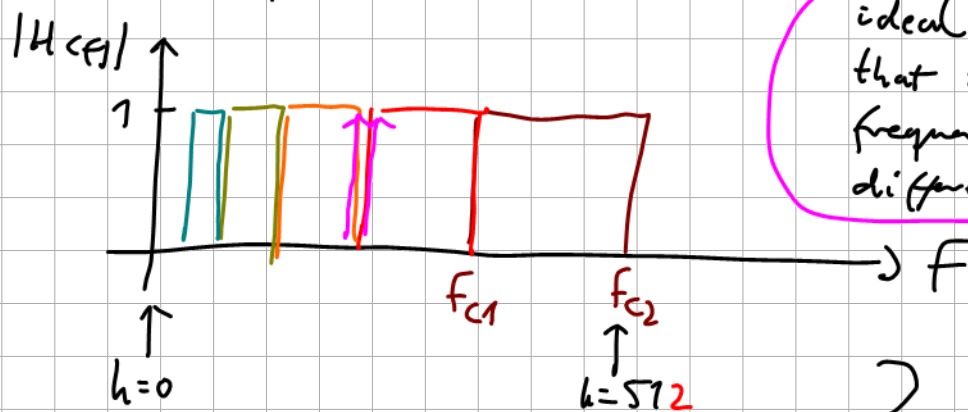


ideal Bandpass

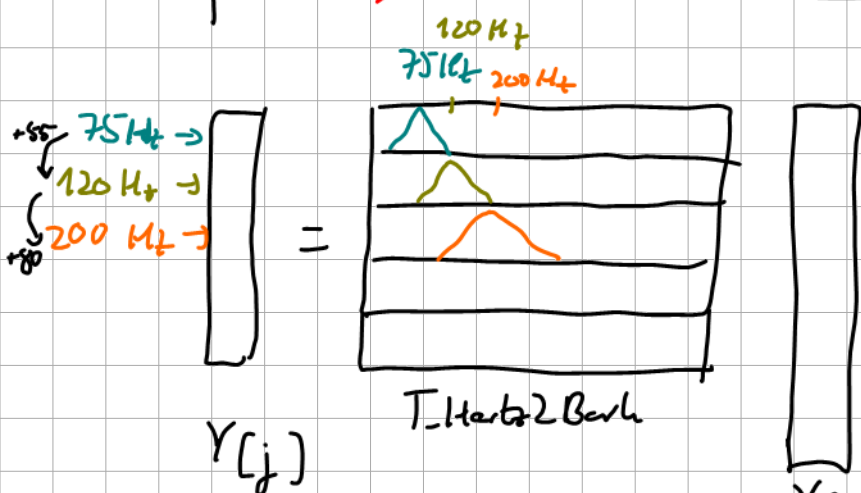


ideal BP have the problem, that small changes in input frequency results in complete different output-signal

$$K = 1024 = 2^{10}$$



ideal BP \rightarrow triangular filters



Logarithmic frequency scaling

linear frequency scaling

Bark is a vector.

$f = \text{np.zeros}(\text{Bark.shape})$

for n in range($f.\text{shape}[0]$):

$a = 0$

$b = 24000$

while $(b-a) > \text{Prec}$:

Decision

if Decision < 0 :

take lower or upper region

else :

take lower or upper region

























