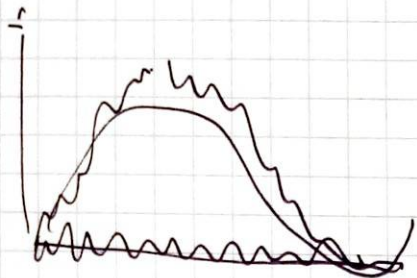
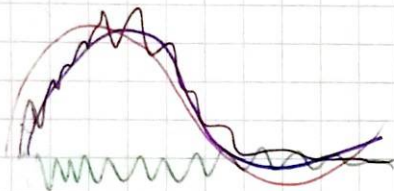
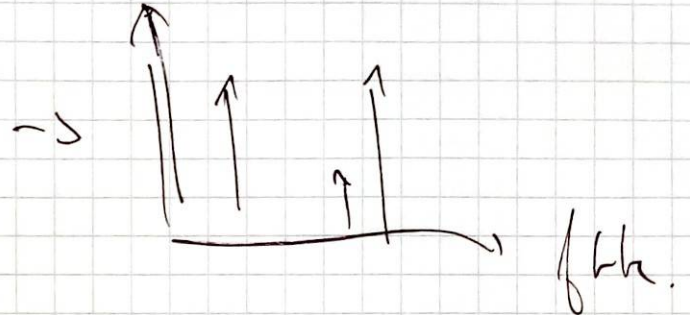


Transformação em ondeleta:

↳ Espaço spatio-freqüentil.



Sinais  $x$  e  $f_y$

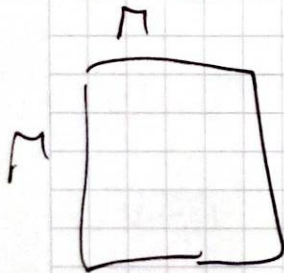


$$\lambda + \lambda = \text{wavy line}$$

$$\lambda + \lambda + \lambda = \text{wavy line}$$

3 canais Banda freq / int / high freq.

range BF blu int e vert HF



$t=0$

$\rightarrow$

	$M/2$	
$N/2$	BF	NFV
	NFH	HF

$\uparrow$

horizontal

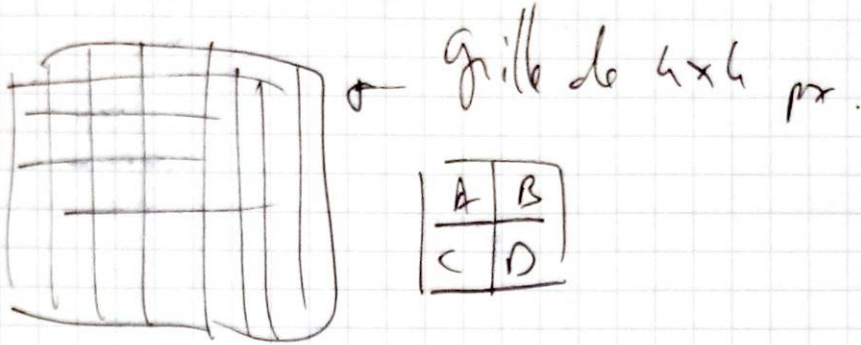
vertical.

4 canais  
dos bancos.

Coefficient.

t.o reversible  
irreversible

Undulette de Haan



filles pareilles / pareil

$$\begin{array}{l} \text{--- FPR} \end{array} \quad \begin{array}{c} A+B \\ \hline 2 \end{array} \quad \begin{array}{c} C+D \\ \hline 2 \end{array} \quad \begin{array}{l} \rightarrow \text{FPR } ① \\ \rightarrow \text{FPH } ② \end{array}$$

$$\begin{array}{l} \text{--- FPH} \end{array} \quad \begin{array}{c} A-B \\ \hline C-D \end{array} \quad \left. \begin{array}{l} \rightarrow \text{FPR } ③ \\ \rightarrow \text{FPH } ④ \end{array} \right\}$$

BF

$$① \frac{A+B+C+D}{4}$$

$$② \frac{A+B-C-D}{2} \text{ NFV}$$

$$③ \frac{A-B+C-D}{2}$$

$$④ A-B-C+D$$

MFH

+128

HF  
TP changeant  
NDG par calcul.  
→ dans forme de HAN.

PGH →



$$-128a + 128.$$

$$512 \times 512$$

$$P \vdash \Pi \rightarrow$$

$$P \vdash \Pi$$

$$\begin{array}{|c|c|} \hline & 128 \\ \hline 128 & 128 \\ \hline \end{array}$$

On regarde si on ne le bon de pas.

on 4 images.

$$256 \times 256$$

6 niveau  $\rightarrow$  la dernière BF  
8x8

Pour le moment 1 niveau.

étape suivante quantification

Par son la BF on arrondi juste à l'entier.

sur les centres

NFV et NFH de manière synchrone.

$$HF' = \left[ \frac{HF}{Q} \right]$$

$$\text{ex: } Q = 10.$$

$$-20 \frac{1}{2} \rightarrow 0$$

$$100 \rightarrow 10.$$

recalculer

$$\rightarrow HF = HF' \times Q.$$

$$NF_{\frac{1}{H}}' = \left[ \frac{NF_{\frac{1}{H}}}{Q_2} \right]$$

$$1/ Q = Q_2$$

$$2/$$

$$Q \neq Q_2.$$