```
Exemple: fot X = (x1 x2 in vecteur gaurien avec
             A[X] = \begin{pmatrix} 1 \\ 2 \end{pmatrix} et A[X] = \begin{pmatrix} 1 \\ 2 \\ 2 \end{pmatrix} \times \begin{pmatrix} 1 \\ 2 \\ 2 \end{pmatrix} \times
               Pherehons E[X_3|X_1,X_2] = E[X_3|\sigma(X_2,X_1)] = g(X_1,X_2)
         Il s'aget de la proj. L de 1/2 sur L2 (2, 5(x), 1P)
                               \sigma(Y_1;X) = \sigma(fl_1) = \sigma(\text{vect}(X_1,X_2)) = \sigma(\left\{\frac{5^2}{6!}\alpha_i(X_1) \mid 2i\in\mathbb{R}^3\right\})
                                 EI K3 (X1,X2) = 20/1+13×2 2/15ER.
_Cherchom det p tq x3 - (dh+px) \ H2 = { rectof x1 x2}
 (A) \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) = \alpha A \left( \frac{1}{2} \right) + \beta A \left( \frac{1}{2} \right)
(A) \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) = \alpha A \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) + \beta A \left( \frac{1}{2} \right)
(A) \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) = \alpha A \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) + \beta A \left( \frac{1}{2} \right)

\begin{array}{l}
\text{El} \left( X_{1} \left( X_{2} - \alpha X_{1} - \beta X_{2} \right) \right) = 0 \\
\text{El} \left( X_{2} \left( X_{2} - \alpha X_{1} + \beta X_{2} \right) \right) = 0
\end{array}

                                                                                                        \mathbb{E}\left[\frac{1}{2} \times x_3\right] = \cos\left(\frac{1}{2} \times x_3\right) + \mathbb{E}\left[\frac{1}{2} \times x_3\right] = \frac{1}{2} \times x_3 + 6 p
                                                                                                                                                                                                                                  = 1 + 1 \times 3 = 4
                                                                                                                  E[x12] = van (xn) + E[xn] = 1+12=2
         E[X1X2] = cor(X2 X2) + E[X] = 1 + 1.2 = 3
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From
$$X = \begin{pmatrix} X_1 \\ X_2 \end{pmatrix}$$
 in west gawnin to $I(X) = \begin{pmatrix} 1 \\ 2 \end{pmatrix}$

On character $f \in \mathbb{R}^3$ et $A \in \mathcal{H}_3(\mathbb{R})$ by

$$\begin{pmatrix} Y_1 \\ Y_2 \end{pmatrix} = Y = AX + f$$
Soft in vector $f \in \mathbb{R}^3$ et $A \in \mathcal{H}_3(\mathbb{R})$ by

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$$\begin{pmatrix} Y_1 \\ Y_2 \end{pmatrix} = Id = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}$$

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N1 + 251 V2 + 251 V3 + 2 52 V3 + 52 + 52 + 52 + 52 + 2 12 V2 V2 + V3 + V3 2

= (\(\tau_1 + \tau_2 + \tau_3 \) + (\si_2 + \si_3) 2 + \si_3 2