```
B = { vi, ..., vn} bese, B' bese, ftl Im A = Cols A
    C\left(\mathsf{E},\mathsf{B}\right) = \left(\begin{array}{c|c} (e_1)_{\mathsf{B}} \end{array}\right) \cdots \left(\begin{array}{c|c} (e_n)_{\mathsf{B}} \end{array}\right) \quad \left[\begin{smallmatrix} \mathsf{f} \end{smallmatrix}\right]_{\mathsf{B}\mathsf{B}'} = \left(\begin{smallmatrix} \mathsf{f} \end{smallmatrix}\left(v_1\right)_{\mathsf{B}'} \right| \cdots \left[\begin{smallmatrix} \mathsf{f} \end{smallmatrix}\left(v_n\right)_{\mathsf{B}'} \right]\right)
    Mono: ing (Nuf=\{0\}) | Epi: sidere [f]_{EE} = C(B,E)[f]_{BB}C(B,E)
     tl: f: V > W din W = din Inf + din Nuf Asdp= 2) sdp
     Cholerhy: SDP A=LLt (lix>0) SDP: xtAx>0 ó det I)>0
      Adp => Atdp; Asdp => A inversible, Asdp => AtA sdp; Asdp => Atiene LU
G. Sm. a= &, b= &- (a, &). a, c= &- (a, &).a- (b, &) b
                        Proja (Vz)
Proja (Vz)
Projb (Vz)
   Householder: H = I - Zuu^t con u = \frac{b-\omega}{nb-\omega n} con ||b||_z = ||\omega||_z y ||u||_{=1}
                                          Hr= w y Hw=r: Reflex wrt plans ortog. a M
  Proyectores: fof = f, [f] = [f] , Nuf D Imf = V re Imf = f(r) = r
  Proy. Ortog: [Ps] EE = [ vivit (vie BON & 5) Nuf = Imf Complements ortog.
                                                                      \lambda^{k} er eval de A^{k} con evec. \tau

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       A.v = 2v
       \chi_A(\lambda) = \det(\lambda I - A)
        No (λI - A)
                                                                      2 eval de A => 2 eval de A
2 eval de A => 1/2 eval de A
       det At = det A
                                                                                                                                                                         \| \times \| = | \times | \| \times \|
     det a A = a det A
                                                                                                                                                                         11x+y11 < 11 × 11 + 11 y11
                                                                      N evel de A => Z N evel de ZA
     det AB = det A det B
     det A-1 = 1
Let A
                                                                     (x, ay+bz) = a(x,y)+b(x,z)
```